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Welcome

There are many reasons to come to Washburn.

A great one is small class sizes. Smaller classes allow teachers to give individualized attention to each student, they offer a more relaxed atmosphere for learning, and make students feel more comfortable to ask questions. Our small class sizes and office hours for professors allow individuals and educators alike to get to know each other on a one-on-one basis. Teachers know your name and something about you! Our teachers genuinely care for each student and go the extra mile to help our students become successful.

Washburn is small enough that you will always be able to find a familiar face, but still large enough that you can meet new people every day. Washburn offers a number of organizations to fit many interests. Washburn also provides a variety of entertainment; we have had comedians, magicians, and musicians come to campus and students get free admission to athletic events.

Other benefits to students include the career services office, the health and counseling services, and a Recreation and Wellness Center with a rock climbing wall. You will find our services help you to have a smooth transition to college and lots of support once you are settled into college life. The best part is that all of these activities are easily accessible through the free parking for students!

Mabee becomes a second home to our students and even offers extended, late-night hours for student convenience during finals week. A popular area in the library is the white board wall and the coffee shop that provides a great place to take a study break and recharge. The newly completed KBI forensics crime lab allows more majors to be offered in that field. And the new Student Welcome Center conveniently holds frequently visited offices such as admissions, the business office, and the registrar all in one place.

Our campus offers great residence halls to enhance your living and learning experience. Our Living Learning Center (LLC) is set apart from larger campuses by features such as an enclosed hallway connecting students to the Union while protecting them from the weather. Our brand new Lincoln Hall offers new dining options in an all-you-care-to-eat dining hall. It is a popular place to live and fills up quickly. The residential areas allow students to create a community with lounges and study areas that allow students to learn and live together in a social and relaxing environment.

There are a number of reasons to attend Washburn, many that students will find out for themselves when you come to our campus. Make the most of your college experience and get involved with all that Washburn has to offer you. As Teddy Roosevelt said, "Nothing in the world is worth having or worth doing unless it means effort, pain, or difficulty." Higher education involves all three, but Washburn is here to help and I assure you it will be worth it. Welcome to Washburn!

Dr. Jerry Farley, President

General Information

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Vision, Mission, Values

Reaffirmed by the Washburn Board of Regents in 2018

Vision of the University

Washburn University is a premier public Midwest regional institution recognized as a community leader in providing a superior student-centered, teaching-focused learning experience, preparing graduates for success in their chosen profession and stimulating economic vitality.

Mission of the University

Washburn University enriches the lives of students by providing opportunities for them to develop and to realize their intellectual, academic, and professional potential, leading to becoming productive and responsible citizens. We are committed to excellence in teaching, scholarly work, quality academic and professional programs, and high levels of faculty-student interaction. We develop and engage in relationships to enhance educational experiences and our community.

Core Values of the University

Core values guide decision making and provide the foundation for directing our efforts, resources, and conduct. In keeping with the University's founding heritage, the faculty, staff, administration, and students are committed to the following core values of Washburn University:

Integrity: acting in an honest, fair, and ethical manner creating a culture of trust evident in all University activities and decision making.

Excellence: serving our scholarly community by delivering consistently high-quality programs, teaching, service, and scholarship.

Inclusion: cultivating an inclusive learning. Living, and working community, facilitating the success of all people, and supporting all individuals.

Accountability: being held responsible for academic, programmatic, and fiscal integrity and value while prudently managing the resources entrusted to the University.

Respect: embracing diversity and treating others collegially with civility, openness, and professionalism in all interactions, activities, and decision making.

Collaboration: working toward common goals with others in the University and the community while valuing teamwork, participation, and diversity of ideas and perspectives.

Innovation: encouraging, considering, and supporting development of ideas by fostering individual ingenuity and creativity and creating an environment with opportunities for growth and change.

Diversity Mission Statement

Washburn is committed to cultivating an inclusive learning, living, and working community, facilitating the success of all people, and supporting all individuals. An inclusive community values diversity in culture, socio-economic status, race, ethnicity, nationality, place of origin, language, ability, gender identity, gender expression, sexual orientation, religious and non-religious identity, political and social ideology, family background, veteran status, and age, as well as the intersections of these identities. The University strives to provide opportunities for its members to reflect upon their own perspectives while examining the perspectives of others, resulting in a culture of empathy and respect for all.

Non-Discrimination Regulation and Procedure

For the most up-to-date information, please visit:

- Equal Opportunity (<https://www.washburn.edu/statements-disclosures/equal-opportunity/>)
- Non-Discrimination Regulations (https://www.washburn.edu/faculty-staff/human-resources/wuprpm/WUPRPM-Procedures-and-Regs/A.%20GeneralTopicsRegs.pdf?_ga=2.207149140.695565850.1620997382-815913186.1620997382#page=2)
- Title IX Regulations (https://www.washburn.edu/faculty-staff/human-resources/wuprpm/WUPRPM-Procedures-and-Regs/A.%20GeneralTopicsRegs.pdf?_ga=2.195695723.695565850.1620997382-815913186.1620997382#page=46)

Clery Annual Security Report

The Washburn University's annual security report includes statistics for the previous three years concerning reported crimes that occurred on campus; in certain off-campus buildings or property owned or controlled by Washburn, and on public property within, or immediately adjacent to and accessible from, the campus. Other reports include institutional policies concerning campus security, such as policies concerning alcohol and other drug use, crime prevention, the reporting of crimes, sexual assault, and other matters. A copy of the report can be obtained by contacting the Office of Student Life (Morgan Hall, 785-670-2100) or by accessing the Annual Campus Security and Fire Report on the following website: www.washburn.edu/securityreport (<https://www.washburn.edu/student-life/health-safety/police/required-reporting/annual-campus-security-and-fire-report.pdf>).

History of the University

Washburn University was established in February 1865 as Lincoln College by a charter issued by the State of Kansas and the General Association of Congregational Ministers and Churches of Kansas. A two-story brick building on the northeast corner of 10th and Jackson Streets was soon erected and the first classes began in January 1866. In 1868, the school was renamed Washburn College, in recognition of a \$25,000 donation by Ichabod Washburn, a church deacon and resident of Worcester, Mass.

The university was granted a permanent location in 1865 when Topekan Col. John Ritchie donated a 160-acre site, which at the time was a considerable distance southwest of the city. Construction on the first building began in 1872, with occupancy taking place in 1874. For the next two decades, college President Peter McVicar conducted an aggressive development campaign. His efforts resulted in the establishment of numerous Victorian limestone structures which characterized the campus for the next 90 years.

Expansion of the school was constant. The School of Law was organized in 1903, as was a School of Fine Arts and a medical school, which educated physicians until 1913. During the next three decades structures such as the Mulvane Art Museum, Benton Hall and Whiting Field House were added to the campus. In June 1966, a tornado struck Topeka and several historic buildings on campus were demolished. The Washburn community rallied and financial support from friends and alumni made possible the rebuilding of many school facilities during the coming years. Today, university facilities offer more than one million square feet of modern academic and support space.

In 1941, the citizens of Topeka endorsed Washburn by voting to establish a municipal university, supported in part by the city and governed by a local board of regents. In 1952, the Washburn Board of Regents officially changed the name of the school to Washburn University of Topeka. In 1999, the university's primary funding was moved from city property tax to county sales tax sources, with the school retaining status as a municipal subdivision of the state. In addition to local financial support, Washburn has received state funds since 1961, which have been coordinated by the Kansas Board of Regents since 1991. Washburn is governed by its own nine-member Board of Regents.

Washburn provides broadly-based liberal arts and professional education through more than 200 certificate, associate, baccalaureate, master's, doctorate, and Juris Doctor programs through the College of Arts and Sciences and the Schools of Law, Business, Nursing and Applied Studies. Over eighty percent of full-time faculty holds the highest degree available in their discipline.

University Assessment

The assessment of student learning is an integral part of the teaching and learning process. Washburn University strives to create a culture of assessment surrounding all curricular and co-curricular activities in which students participate.

Students share the responsibility for the evaluation of student learning by completing assessment activities which provide the data required for reliable analysis of the curricular and co-curricular activities which are undertaken.

Valid and reliable assessment is important for three reasons:

1. To improve student learning.
2. To provide accountability to stakeholders, such as students, parents, legislators, accrediting agencies, and the public.
3. To assist in the process of accreditation, both of the University and of individual programs.

To foster this culture of assessment, Washburn University has created a university-wide assessment committee. The Assessment Committee supports the university's commitment to excellence in teaching, scholarly work, and quality academic and professional programs through the collection, analysis, and dissemination of evidence of student learning. The committee is dedicated to ensuring that the entire university community collaboratively shares the responsibility for student learning. To help the University Assessment Committee satisfy its mission, the following are shared expectations:

- Every program/unit/major has a mission statement.
- The program/unit/major ensures the mission statement is shared with all constituents.
- The program/unit/major periodically reviews the mission statement to ensure it is appropriate and compatible with the University's mission.
- Every program/unit/major has student learning goals.
- Each goal is supported by learning objectives (outcomes) which are measurable.
- Evidence is consistently collected and accessible to appropriate constituents.
- Evidence is regularly analyzed (i.e., the program/unit has an established a schedule for review of evidence).
- The program/unit/major has an appropriate mechanism to institute changes which are suggested by the evidence.

University Accreditation

Washburn University is accredited or approved by the

Higher Learning Commission
230 South LaSalle Street, Suite 7-500
Chicago, IL 60604

To file a complaint with the commission, please follow its stated procedures at this link (<https://www.hlcommission.org/Student-Resources/complaints.html>).

In addition, several academic programs are accredited or approved by the following accrediting bodies:

- AACSB-International (All Undergraduate and Graduate programs offered by the School of Business)
- ACJS - Academy of Criminal Justice Sciences (Certified – Master)
- ACOTE - Accreditation Council for Occupational Therapy Education (Occupational Therapy Assistant)
- AAM - American Alliance of Museums (Mulvane Art Museum)
- ABA - American Bar Association
- ACS - American Chemical Society (Certified BS Chemistry)
- CAHIIM - Commission on Accreditation for Health Informatics and Information Management Education (Health Information Technology)
- CAPTE - Commission on Accreditation in Physical Therapy Education (Physical Therapist Assistant)

- CoARC - Commission on Accreditation for Respiratory Care (Respiratory Therapy)
- CAAHEP – Commission on Accreditation of Allied Health Education Programs (Diagnostic Medical Sonography)
- CAAHEP – Commission on Accreditation of Allied Health Education Programs (Surgical Technology – Washburn Institute of Technology)
- CAEP - Council for Accreditation of Teacher Preparation (Education – Master, Baccalaureate)
- CCNE - Commission on Collegiate Nursing Education (Nursing – Post-Graduate APRN Certificate, Doctor, Master, Baccalaureate)
- CEA - Commission on English Language Program Accreditation (Intensive English Program)
- CSWE - Council on Social Work Education (Social Work – Master, Baccalaureate)
- ICAR – Inter-Industry Conference on Auto Collision Repair (Auto Collision – Washburn Institute of Technology)
- JRC-DMS - Joint Review Committee on Education in Diagnostic Medical Sonography (Diagnostic Medical Sonography)
- JRCERT - Joint Review Committee on Education in Radiologic Technology (Radiation Therapy)
- JRCERT - Joint Review Committee on Education in Radiologic Technology (Radiologic Technology)
- KSBN - Kansas State Board of Nursing (Nursing – Post-Graduate APRN Certificate, Doctor, Master, Baccalaureate)
- KSDE - Kansas State Department of Education (Education - Master, Baccalaureate)
- NAACLS - National Accrediting Agency for Clinical Laboratory Sciences (Medical Laboratory Science in Conjunction with the University of Nebraska Medical Center)
- NAADAC – National Association of Alcohol and Drug Abuse Counselors (MA Addiction Counseling Certificate, not an accreditation)
- NASAD - National Association of Schools of Art and Design (Art)
- NASM - National Association of Schools of Music (Music)
- NATEF – National Automotive Technicians Education Foundation (Automotive Service Technician – Washburn Institute of Technology)
- NCCER – The National Center for Construction Education and Research (Building Technology, Cabinet/Millwork, Commercial and Heavy Construction – Washburn Institute of Technology)

Open Meetings and Records

Washburn University is a public municipal institution of higher education organized and existing under the provisions of the Kansas Constitution (Article 6, Section 2) and the Kansas Statutes Annotated (K.S.A. 13-13a03 et seq). As a public institution, the meetings of its governing board are open to the public under the provisions of the Kansas Open Meetings Act (K.S.A. 75-4317 et seq) and the records of the University are subject to inspection as provided under the Kansas Open Records Act (K.S.A. 45-215 et seq).

Campus and Facilities

Website: <http://washburn.edu/about/visit/virtual-tour/index.html> (<http://washburn.edu/about/visit/virtual-tour/>)

Washburn University is located on a spacious, attractive campus in the capital city of the state of Kansas. Washburn is a municipally supported, state assisted university comprised of five major academic units: the

College of Arts and Sciences, the School of Law, the School of Business, the School of Nursing, and the School of Applied Studies. There are approximately 6,000 students enrolled in traditional undergraduate degree programs, two-year associate degree programs and professional graduate programs in Law, Business, Psychology, Education, Social Work, Criminal Justice, Liberal Studies, Communication and Leadership, and Nursing. Visit the website listed above to learn more about the campus.

Washburn Institute of Technology was officially established in 1964. The school has completed major remodeling projects, having grown from one building in 1966 to a 43-acre, multi-building campus providing today's valued technical training. Washburn Tech has 110 full-time staff including 70 faculty members offering 39 certificate programs to approximately 1,250 students, more than 50% of whom are postsecondary. The school also has Continuing Education and a Business and Industry Center with 35 part-time faculty offering continuing education courses and customized training to area businesses. Technical education in Kansas is overseen by the Technical Education Authority, a division of the Kansas Board of Regents through which Washburn Tech receives supplemental funding. For more information about Washburn Tech, visit www.washburntech.edu (<http://www.washburntech.edu>).

Washburn University and Washburn Tech are governed by an appointed, independent, 9-member Board of Regents.

Special Facilities

Listed below are brief descriptions of special facilities available at Washburn. For information on classroom buildings please visit the website <https://www.washburn.edu/about/visit/virtual-tour/index.html> (<https://www.washburn.edu/about/visit/virtual-tour/>). (<http://washburn.edu/about/visit/virtual-tour/index.html.html>)

The **Andrew J. and Georgia Neese Gray Theatre**, seating 388, features a thrust stage, and is the site of productions by both the University Theatre Department and Community groups.

Athletic Facilities, The equipment and facilities for physical education provide an opportunity for every student to participate in Kinesiology activities. (See information on Petro Allied Health Center, Whiting Field House, and Student Recreation and Wellness Center.)

Carole Chapel was donated to Washburn in 2003 by the Menninger Foundation when the clinic relocated to Houston, Texas. Carole Chapel is open for meditation from 7:30 a.m. to 8:00 p.m. Monday through Friday and noon to 5:00 p.m. Saturday and Sunday when classes are in session. The chapel has reduced hours when classes are not in session and is closed on university holidays and when reserved for private events.

Whiting Field House, erected in 1928 and named for Albe G. Whiting, was renovated in 2009 and provides strength and conditioning facilities for varsity athletics and Kinesiology classes; a large playing floor for basketball, volleyball, wrestling, tumbling, and gymnastics work; office, classroom and laboratory space for the School of Nursing; and classroom space for other academic programs.

Yager Stadium at Moore Bowl was completely renovated in 2003. The first gift to the stadium renovation was from former Ichabod defensive end Bernie Bianchino, with substantial gifts from an anonymous donor and others. The **Bianchino Pavilion** includes six suites, media facilities, restroom and concession facilities, and meeting rooms. The new name of Yager Stadium at Moore Bowl is in honor of former Ichabod running back Gary Yager.

Opening in fall 2020 is a new **Indoor Athletic Center**. It will contain a 200 meter banked competition track, a 100 yard practice football field, as well as office space. The Center will be used for football, track, baseball, softball, and soccer varsity practice and as an indoor track and field competition space.

Other playing fields are provided for additional varsity sports, varsity practice, and intramural sports. A baseball diamond and two softball diamonds for intercollegiate competition are available, and there are six excellent cement tennis courts located near Petro Allied Health Center.

Petro Allied Health Center is a state of the art physical education and athletic facility. This facility includes a large gymnasium with basketball, volleyball and badminton courts, as well as a running track. There is also a weight-training room, dance studio, athletic training room, exercise physiology laboratory, and Physical Therapist Assistant laboratory.

Bradbury Thompson Alumni Center, which was funded entirely from private sources, opened in April 1996. The Center houses the operations of the Washburn Alumni Association, Strategic Analysis and Reporting office, and Office of Sponsored Projects as well as the offices of the Vice Presidents for Academic Affairs and Administration/Treasurer. The building was designed to serve the needs of alumni and Washburn University, as well as provide meeting space for many community groups and organizations.

Charles Bennett Computer Center, completed in 1988, houses the main offices of Information Technology and Services, and academic computing laboratories.

International House, located near the center of the campus, is situated between the Student Union and Benton Hall. This Spanish-style structure, built in 1931 by Dr. and Mrs. Parley P. Womer, was the private residence of the former university president and his wife. After their deaths, the home reverted to the University and serves now as the center of international activities.

The building features a magnificent great room, 44 by 22 feet with a balcony on two sides, huge fireplace and a beamed, vaulted ceiling. Hurricane shutters and wrought iron balustrade and chandelier enhance the Spanish architecture. The House is furnished with American antiques and artifacts from around the world.

KBI Forensic Science Center is a state-of-the-science facility on Washburn's campus that includes more than 10,000 square feet for academic use. Building spaces specially designed for Washburn students include a vehicle bay for in-depth study of crime scene processing, an outdoor laboratory for forensic anthropology study, a dedicated laboratory space for each concentration area (digital forensics, forensic anthropology, forensic chemical science, and forensic investigation) near the KBI scientists of the same discipline, and state-of-the-art interactive classroom and laboratory spaces.

KTWU is a non-commercial television station licensed to Washburn University and a member station of Public Broadcasting Service (PBS). It began broadcasting in 1965 as the first public television station in Kansas. KTWU's broadcast center is located at 19th & Jewell Ave. on the Washburn Campus. KTWU offers five digital destinations for unique content: KTWU (PBS) in High Definition on Channel 11.1; KTWU/ MHz Worldview on Channel 11.2; KTWU ENHANCE on Channel 11.3; KTWU.ORG, online; and KTWU MOBILE TV.

The station serves a 70-mile radius in northeastern Kansas as well as a 30-mile area in southeast central Kansas. In addition, other communities

in Kansas, Nebraska, Oklahoma and Missouri receive the KTWU signal over various cable systems. More information about KTWU is available on-line at www.ktwu.org (<http://www.ktwu.org>).

The **Law Library for Washburn University School of Law** is located in the law building on the northwest corner of the campus. The National Jurist (March 2010) ranked the library 40th among 198 U.S. law school libraries using a mix of categories measuring collection, facility and staff resources. The library contains over 406,000 volumes, including titles in microfiche, video, and digital formats. It is an official depository for materials published by the U.S. Government Printing Office and Kansas state agencies. Appellate case reports and statutes from all fifty states are available as is an extensive collection of briefs from the U.S. and Kansas Supreme Courts. The online catalog provides direct access to selected Internet full text documents as well as to the holdings of the university's Mabee Library and the 200,000 volumes held by the Kansas Supreme Court Law Library (located a five-minute drive from the law school in the Judicial Center).

The **Washburn University School of Law** has been in continuous existence since 1903. The School was admitted to membership in the Association of American Law Schools in 1905 and in 1923 was one of 38 law schools (from among some 150 then in existence) on the American Bar Association's first approved list of law schools. For more information please visit www.washburnlaw.edu (<http://www.washburnlaw.edu>).

The **Memorial Union** provides university students, faculty staff, alumni and guests with facilities, programs, and essential services to meet the needs of daily campus life. Dedicated in 1952 as a memorial to Washburn students and Shawnee County residents who lost their lives in foreign wars, it serves today as the "living room of campus."

One of the first stops for students arriving on campus is the **Ichabod Service Center** on the Union's main level. Students receive their identification cards and learn about all the services and programs offered.

Union Market food court is open for breakfast, lunch, and dinner and offers a variety of food options. **Outtakes C-Store**, the Union's convenience shop, serves coffees, smoothies, and frozen yogurt, among other popular and nutritious items.

The **Ichabod Shop**, located on the Union's lower level, provides a complete selection of new and used textbooks. The university community shops here for their Ichabod gear and computer and other technology supplies, as well as a wide choice of Washburn imprinted gifts.

Washburn Student Government Association offices are also located on the lower level of the Union, as well as the **Washburn Student Government Association offices** are also located on the lower level of the Union, as well as the **Campus Activities Board, Washburn Student Media, and Student Involvement and Development Office**.

Fifteen modern **conference rooms** of various sizes and numerous comfortable lounges guarantee the Memorial Union is the favorite meeting place for campus and public gatherings and student leisure activities.

The **Mulvane Art Museum**, founded in 1922 with a bequest from Joab Mulvane, is one of the oldest museums west of the Mississippi River.

Accredited by the American Association of Museums in 1988, the Museum houses a collection of approximately 4,000 objects from around the world including paintings, prints, drawings, sculptures, photographs

and decorative art. While international in scope, the Museum's collection focuses on the works of artists from Kansas and the Midwest and has a concentration in American art of the 20th century. In addition to showing works from the collection the Museum also hosts traveling exhibitions.

Following a tornado in 1966, that destroyed most of the buildings on campus, the present complex was built. Due to the nature of the Mulvane Trust, the original building's native limestone exterior was unchanged; however the severely damaged interior was gutted and connected to the new **Garvey Fine Arts Center** which also houses the Art History, Music and Theater Departments. The Mulvane Art Museum underwent another renovation project, completed in 2006, that increased exhibition space to 5,000 sq. ft., provided secure storage for the collection, art preparation areas, and significantly enlarged the art education program with the creation of **ArtLab**, a 1,500 sq. ft. hands-on art experience center and the renovation of four education classrooms.

In 2015, the Museum received a significant donation of paintings, drawings, sculpture, and archival material representing the lifework of Kansas artist, Rita Blitt. A separate gallery and outdoor area was constructed adjacent to the White Concert Hall that is used to exhibit the many collection. The hundreds of works offers unique opportunities to engage students and communities in the research, interpretation, and development of exhibitions and educational programs.

The Museum's education program provides extensive community outreach to children at after school sites, public and private school classrooms and preschool centers throughout the region. In-house art classes, public lectures, family events and community educational experiences for people of all ages and abilities are also offered.

Admission to the Museum and ArtLab is free and open to the public.

Student Recreation and Wellness Center, SRWC, facility components include a rock climbing wall, indoor track, gymnasium, cardiovascular and resistance training area, multi-purpose room, wellness suite, and locker rooms. Program offerings include informal, intramural, group exercise, climbing and wellness opportunities.

The **University Library: Mabee Library**, located in the center of campus, is the intellectual and cultural heart of the university. Its staff offers a wide variety of services, with a special focus upon educational programs that promote the intelligent use of information resources and information literacy, including an Information Literacy Minor. Mabee Library maintains multiple different learning spaces such as the Ichabod Reading Lounge, a space for quiet study and reflection, and the Information Literacy Suite, a traditional mediated digital classroom. On the third floor is the John and Barbara Stauffer Learning Center, which includes both the Philip H. Etzel Immersive Classroom, a Twenty-first Century learning space that allows instructors and students to create the learning environment that best serves their needs, and the Dr. Richard E. Shermoen Math Learning Lab, designed to promote student success in undergraduate mathematics. The Library hosts a variety of educational and informational events for the Washburn Community of Learning.

The Library has three floors: the first level is a collaborative study space that also houses bound journals, the third level contains the stacks and the **Washburn Tutoring and Writing Center**, while the main level is a mixed space that serves the Washburn Community as a learning commons - a space for students and faculty to engage each other and the world outside the formal classroom. Laptops and iPads are available for checkout at the Welcome Center. The Library website or digital branch (www.washburn.edu/mabee (<http://www.washburn.edu/mabee/>)) is designed for ease of use, and features the ENCORE search

tool that allows researchers to access the collections of Mabee Library, the Carnegie Education Library, the Washburn School of Law Library, the Kansas Supreme Court Library, and the Kansas State Historical Society Library. In addition to an extensive number of books and print journals, the Library also provides access to an expanding number of electronic resources. Librarians provide an online subject-specific set of help tools (libguides.washburn.edu (<http://libguides.washburn.edu>)), which extend public services beyond the 104 hours each week that in-person research assistance is available.

Special Collections in the Library include the Rare Book Collection, the University Archives, the William I. Koch Art History Collection, the Thomas Fox Averill Kansas Studies Collection and a growing Digital Institutional Repository that displays the scholarly work of both faculty and students.

Mabee Library is also the physical home of the **Center for Student Success and Retention**, which includes the following offices: Academic Advising, First-Year Experiences, Undergraduate Initiatives including the nationally recognized Ichabod Success Institute, and, the Center for Prior Learning and Testing.

The **Carnegie Education Library**, a branch of the Mabee Library, is located in Carnegie Hall. It specializes in teacher resources and is a representative pre k-12 library. The CEL enhances the teaching and learning initiatives of the Washburn Department of Education as it seeks to produce 21st century educators and to support its various communities. In addition to its physical collections, the CEL website (libguides.washburn.edu/celguide (<http://libguides.washburn.edu/celguide/>)) provides access to an increasing number of digital resources.

Information Technology Services

Information Technology Services (ITS) provides a variety of services and support options for students at Washburn University.

You can find information on hours and services available to you at <http://washburn.edu/its> (<http://washburn.edu/its/>). You may contact ITS support at 785 670 3000, by email at support@washburn.edu, or by visiting Bennett 104.

Students admitted to Washburn University are given access to Washburn's web portal, MyWashburn located at <https://my.washburn.edu/>. Tools available in MyWashburn include campus announcements, class registration, and connection to online classes or materials related to coursework. MyWashburn may be accessed from any Internet connection, on or off campus.

On campus, students may connect to the Internet and computing resources using equipment in classrooms, computer labs or via wireless using a personal device. Residential students have access to wired and wireless connections to the high-speed campus network from their rooms. Visit Information Technology Services (<https://www.washburn.edu/its/internet-wifi-access/>) to learn how to connect to the wireless network. A quick start guide (<https://washburn.edu/its/files/ITS-Quick-Start-Guide.pdf>) is available on the main ITS webpage.

ITS will guide you to the support you need. Contact ITS by calling (785) 670.3000 or email us at support@washburn.edu. We are here to assist you.

Evening, Weekend, and Online Courses

Courses offered online and during late afternoon, evening and weekend hours compose a significant part of the University academic and continuing education program. Classes are organized to serve working adult members of the community as well as full-time students of the University.

Students enrolling in these classes can begin a college education, continue their education on a college level, improve occupational knowledge and skills, study for personal enrichment, or pursue avocational interests.

In addition to offering a broad range of academic courses which may lead to certificates, associate degrees, or the baccalaureate and master's degrees from the College of Arts and Sciences, the School of Applied Studies, the School of Business, and the School of Nursing, the University recognizes the responsibility to develop other instructional programs in areas where community needs are identified and the University has resources to respond to those needs.

The Academic Scheduling and Commencement Services Office annually produces three class schedules. Course listings are available online at www.washburn.edu/schedule (<http://www.washburn.edu/schedule/>) and have a search feature for online, evening, weekend, and graduate courses. The semester schedule can also be accessed by admitted students on Washburn University's online portal at my.washburn.edu. (<http://my.washburn.edu>) Select the Student Academics tab, then select Search for Available Courses from the options on the left side, and choose the appropriate semester.

Summer Session

As the University continues to broaden the scope of its educational activities, the academic life of an increasing number of students extends into the summer months. The Washburn Summer Session includes day and evening classes, special summer institutes, short-term foreign language workshops, travel and online courses.

The diverse summer program is planned for students who wish to begin their college study, for those who wish to continue their regular academic programs, for eligible high school students who wish to pursue special interests, and for adults who wish to pursue studies on a professional level or for individual self-improvement.

Student Services and Academic Support

- Admissions (p. 13)
- Registration, Enrollment, and Residency Requirements (p. 16)
- Tuition and Fees (p. 17)
- Financial Aid (p. 20)
- Center for Student Success and Retention (p. 21)

Admissions

Registration, Enrollment, and Residency Qualifications

Washburn University welcomes applications from all interested students. As a public institution, the University recognizes a responsibility to serve a variety of educational needs manifested by its student clientele. Prospective students are always welcome to the campus and are encouraged to visit prior to enrollment. The Office of Admissions, in Morgan Hall, handles all arrangements during students' campus visitations.

Admission Requirements for Degree Seeking Candidates

Graduates of accredited high schools who meet admission criteria, and wish to fulfill the requirements for a degree will be admitted as degree-seeking students. Admission classification will depend upon the student's academic credentials.

An Application for Admission must be completed by all first time students and by current or former students who are changing their degree status (degree or non-degree). An Application for Admission may be obtained by going to www.washburn.edu/admissions (<http://www.washburn.edu/admissions/>). Former students who are returning in the same status can complete the Returning Student Reactivation form at <http://washburn.edu/admissions/apply.html>. Students who are or have taken classes as a high school student need to complete the undergraduate application for admission.

Official high school or GED transcripts may be required for degree seeking applicants with fewer than 24 completed hours of college or vocational work.

Official transcripts of all previous college or vocational work must be submitted by all degree seeking applicants. An official transcript must be received from each institution attended. Official transcripts can be sent through the mail or electronically to etranscripts@washburn.edu. Official transcripts cannot be faxed.

Entering freshmen or students who have completed less than 24 hours of college or vocational work may be required to submit test score(s) (ACT or SAT). These results will be used, both to determine admission status, and by the student's academic advisor to select the proper courses of study. Students who are over 21 or will be by the beginning of their first semester are not required to submit ACT scores.

Fall enrollment, applications for admissions and transcripts should ideally be on file in the Office of Admissions by August 1. Applicants for the spring should ideally have applications and transcripts on file by January 2. Summer applicants should ideally have applications and transcripts on file by 10 business days prior to Summer enrollment.

Application Fee Waivers

To be eligible for an application fee waiver, students must submit documentation with a guidance counselor signature proving financial need. To prove financial need, guidance counselors can provide evidence of a student's participation in the Federal Free/Reduced Lunch Program, an ACT/SAT fee waiver form, or a NACAC Request for Admission Application Fee Waiver form. A Fee Waiver Application can be obtained

by going to www.washburn.edu/feewaiver (<http://www.washburn.edu/feewaiver/>).

Admission Criteria

High School and Home School Students

Students who are or will be graduates from an accredited high school or home school curriculum.

Regular Admission for High School and Home School Students

Students meeting the following criteria will be granted regular admission:

- High School GPA ≥ 2.25 on a 4.00 scale or;
- ACT Composite Score ≥ 21 .

Admission Exceptions for High School and Home School Students

Given our commitment of access to a high-quality education, students not meeting Regular Admission criteria are granted admission by exception. Applicants admitted by exception are required to participate in either the Passport for Success or the Ichabod Ignite Program (see <https://www.washburn.edu/academics/center-student-success/index.html> (<https://www.washburn.edu/academics/center-student-success/>))

GED Students

Students who are not graduates of a high school may qualify for admission by taking the GED. The University requires receipt of official GED diploma and official ACT report of scores.

Regular Admission for GED Students

- ACT Composite Score ≥ 23 or GED Score ≥ 165 on each section (510 on the test prior to 2016)
- ACT Composite Score 21 or 22 and GED Score ≥ 475 for test prior to 2016

Admission Exceptions for GED Students

Applicants not meeting Regular Admission or Ichabod Ignite Program criteria (see below) may be granted admission by exception. Applicants admitted by exception must participate in the Passport for Success Program for placement testing, prescriptive course selection, and receive academic advising through the Center for Student Success (see section: Center for Student Success).

Graduates of non-accredited high schools will be evaluated on an individual basis.

Returning Adults (21 years or older)

Returning Adult students are classified as students who are 21 years of age or older by September 1st for the fall term, February 1st for the spring term or June 1st for the summer term who will be transferring less than 24 completed hours from a postsecondary institution. Returning adult students must have graduated from an accredited high school or have earned a GED with a score of at least 145 on each section (475 or higher on test taken prior to 2016) to be admitted.

Questions Regarding Admission

If students have questions regarding admissions they should contact the Admissions Office at (785) 670-1030.

Transfer Students

Transfer students who have completed 24 or more hours of college or vocational work must submit an official transcript from each regionally

accredited post-secondary institution previously attended to the Office of Admissions at Washburn University. If the student has completed fewer than 24 college or vocational hours and is seeking a degree, additional material may be required for admittance. For more information please refer to Admissions Criteria for details.

Entering degree-seeking transfer students must have an application, \$20 processing fee, and all transcripts on file in the Office of Admissions by the respective beginning term deadline. Those students unable to meet the minimum admissions standards due to unusual circumstances may be considered on a case-by-case basis by the Director of Admissions. Transfer students desiring additional information should call 785-670-1030.

A cumulative 2.0 GPA on a 4.00 scale (C = 2.0) is the minimum preferred on all completed course work of transfer students seeking admission to Washburn University. Decisions rendered for those below a 2.0 GPA will be predicated on the number of hours attempted at previous institutions. Credits and grades earned in courses which are not acceptable from a transfer school will not be counted in the final grade point average or total hours earned at Washburn. At least 60 hours required for the baccalaureate degree must be taken at a 4-year college or university.

Transfer students who have completed a baccalaureate degree at an institution of higher education accredited by one of the seven regional accrediting organizations (<https://www.chea.org/regional-accrediting-organizations/>) (<https://www.chea.org/regional-accrediting-organizations/>) are considered to have satisfied general-education requirements, and are therefore not required to meet Washburn's specific general education requirements. This includes all aspects of the general education program including the core coursework and the general education distribution hours. Students will, however, be required to meet degree requirements that are specific to certain Bachelor and Associate degrees including required courses in correlate areas associated with an academic major.

For transfer students who have not completed a baccalaureate degree, courses completed at a college or university accredited by one of the seven regional accrediting organizations which have been designated by the sending institution as general education courses will transfer to Washburn University as courses within the appropriate general education distribution area without further review. In addition, courses listed by the Kansas Board of Regents as a Kansas System-Wide Transfer (KSWT) course at www.kansasregents.org/transfer_articulation/ (http://www.kansasregents.org/transfer_articulation/) will transfer as their listed Washburn University equivalent course without further review. **Note:** The policy is not intended to circumvent specific general education requirements for particular majors. This is a most important distinction and should be noted by students and their advisors.

Exceptions to this transfer policy include the following.

1. The core requirements in English, Mathematics, and College Experience not addressed by KSWT must be approved as equivalent courses by the relevant departments unless the student has completed a baccalaureate degree from a regionally accredited institution.
2. KSWT courses that are lower-division at the sending institution and upper-division at Washburn University will be considered equivalent to the course at Washburn University for the purposes of program requirements, but will not count toward the minimum upper-division hours required for graduation.

3. Courses not included in the sending institution's general education program which a transfer student believes may meet the spirit and intent of Washburn University's general education program must be reviewed by the General Education Committee.
4. General education coursework from technical colleges and institutes accredited by one of the six regional accrediting organizations must be reviewed by the General Education Committee. (See next paragraph for more information regarding technical colleges.)
5. Courses that may satisfy a major requirement or a prerequisite to a major requirement must be reviewed by the major department chairperson.

Transfer students who have completed a technical certificate from 16 to 60 hours approved by the Kansas Board of Regents from a college accredited by the Higher Learning Commission may transfer up to 48 credit hours of earned technical certificate course credit to apply to degrees at Washburn University. Courses completed as a component of an earned Associate's degree beyond the technical program certificate requirements will be evaluated by the appropriate department at Washburn University and, based on that evaluation, may transfer to partially fulfill the core or general education requirements for Washburn programs. Academic units may develop specific policies limiting the number of technical-certificate credit hours which can be applied to a particular degree.

Courses taken at institutions outside the United States: College-level courses completed outside the United States and recorded on official transcripts will be evaluated for transfer credit, provided that the tertiary institution where the courses were taken is accredited by the Ministry of Education (or its equivalent) in that country. International transfer students who have completed college-level courses outside the United States may be requested to submit proof of accreditation by the Ministry of Education and/or provide an evaluation from an authorized international credential evaluation agency such as Educational Credential Evaluators (ECE) or World Education Services (WES). For students who have completed a baccalaureate or associate degree with a similar duration as a domestic baccalaureate or associate degree from an accredited international institution, courses satisfactorily completed in the Arts and Humanities, Social Sciences, and Natural Sciences and Mathematics will be accepted towards credit in the appropriate general education distribution area.

Course Transfer Review Process (for exceptions listed above): To determine whether transfer coursework has been approved as satisfying Washburn's general education program, students can access the online transfer guide links at <https://washburn.edu/registrar/transfer.html>. Department chairs determine how major courses will transfer and transfer students must provide appropriate documentation (course description and course syllabus) to the chairperson to make an informed decision. Requests for approval of a course to count for general education credit are reviewed by the university's General Education Committee. To request approval, students must complete the General Education Transfer Course Petition (www.washburn.edu/gen-ed-transfer-petition/) (<http://www.washburn.edu/gen-ed-transfer-petition/>) with their academic advisor and submit the form to the Associate Vice President for Academic Affairs. Decisions are usually made 1-2 weeks after all required information is received.

Students can appeal decisions on the transferability of general education courses through the General Education Committee if additional information can be provided which might change the initial ruling.

The committee's decisions can be appealed to the Vice President for Academic Affairs, whose decision will be final.

Academically Suspended Students

Academically suspended former students must submit a Petition for Academic Reinstatement to the Vice President of Academic Affairs Office if they wish to be considered for enrollment in a subsequent semester. Students should contact the Office of Academic Advising, in Mabee Library, at (785) 670-1942, to begin the process of reinstatement.

Non-Degree Seeking Students

Non-degree seeking students or non-credit community auditors are required to submit an application only. If the course the student wishes to enroll in has a prerequisite, an unofficial transcript with the prerequisite course listed must be emailed to the professor teaching the course. It is important to be aware that federal financial aid is not available to non-degree seeking students.

International Students

Information regarding international student admission can be found in the Office of International Programs (p. 33) section of the catalog.

New Student Orientation

Washburn will host New Student Orientation sessions for new freshmen and transferring students enrolling in fall and summer terms. For more information, please visit washburn.edu/orientation (<https://washburn.edu/admissions/orientation/>) or contact the Office of Student Transition and Family Engagement at (785) 670-2034 or orientation@washburn.edu.

Welcome Week

The Office of Student Transition and Family Engagement hosts Welcome Week activities for new and transfer students during the first weekend before and week of fall classes in August. All students are welcome, both new and returning. For more details about Welcome Week activities, please visit www.washburn.edu/welcomeweek (<http://www.washburn.edu/welcomeweek/>).

Academic Program Admission

Additional requirements are needed to be admitted in the following programs:

College of Arts and Sciences

- Art (Bachelor of Fine Arts)
- Education (Bachelor and Master Degrees)
- Music (Bachelor of Arts)

School of Business

- Bachelor of Business Administration

School of Applied Studies

- Medical Laboratory Science
- Magnetic Resonance
- Diagnostic Medical Sonography
- Occupational Therapy Assistant
- Physical Therapist Assistant
- Radiation Therapy Technology

- Radiologic Technology
- Health Information Technology
- Respiratory Therapy
- Bachelor of Health Science

School of Nursing

- Bachelor of Science in Nursing

While program admission is required for degree candidacy, some courses in these areas may be taken by non-degree candidates with approval of an advisor from the area.

High School Students

The opportunity to accelerate an educational program while in secondary school is given and a student may take courses on campus before graduation. Upon the written authorization of the high school principal or high school counselor, junior and senior students with a 3.0 average or better may enroll in day or evening classes for which they are qualified. Students are limited to a maximum of two courses (six credits) per semester. A Request to Enroll form may be obtained through the student's local high school guidance office or Washburn's Office of Admissions website, www.washburn.edu/admissions (<http://www.washburn.edu/admissions/>). It should be submitted to the Office of Admissions, along with a completed Concurrent Enrollment Program (High School) application, 15 days before enrollment. Students below high school junior standing or not presenting a 3.0 grade point average, must also have permission of the relevant academic dean prior to enrollment. It is important to be aware that federal financial aid is not available to non-degree seeking students.

ACT or ACT Residual

Prospective students who cannot take a national ACT test or are out of high school and do not have an ACT score may use the ACT Residual. This test is administered by the Center for Student Success located in Mabee Library.

Auditing Classes

Students who wish to attend classes, but do not wish to receive credit, may audit classes. Students in this category must have the approval of the instructor at the time they enroll and must pay the same fees as credit students. Audited courses are not assigned grades and students are not required to turn in class assignments or write examinations. Students enrolled in an audited class may not convert to a credit status after the first week of class. Students may not change a class from credit status to audit after the third week of classes. It is important to be aware that federal financial aid is not available to non-degree seeking students.

60 and Over Tuition-free Audit Program

Kansas residents 60 years of age and over may audit credit courses at Washburn University without paying University tuition, University fees, or student activity fee charge. Being able to audit a course is subject to availability of class space and to the enrollment of a specified minimum number of fee-paying students. The costs of materials and/or textbooks are the responsibility of the auditor. It is important to be aware that federal financial aid is not available to non-degree seeking students.

Auditors are not required to prepare homework assignments or take examinations. They may participate in classroom discussion and laboratory and field work. No college credit will be awarded for courses, thus no transcripts will be generated. Auditors are expected to follow

University rules and regulations regarding parking, library privileges, and other appropriate university regulations.

Auditors must be at least 60 years old on or before the first day of the semester/term in which the class is taught and need to be prepared to have their birth date verified by showing a driver's license or birth certificate when they register. Registration forms will be processed only after the majority of fee-paying students have enrolled which enables the identification of classes that have space available.

By filling out a non-degree seeking application, auditors may apply in the Office of Admissions, and then they will enroll through the Student One Stop (SOS), Morgan Hall 101A. Registration instructions are available in the Registration Information Guide for each semester/term under the title of "60 Years of Age and Over Audit Program".

Registration, Enrollment, and Residency Requirements

Advance Registration

The University offers advance registration. Students who are currently enrolled will have the first opportunity to register for the following semester/summer term. The respective Registration Information Guide will have the advance registration dates, instructions, and regulations. Current students will be able to register during their classification schedule provided they have no holds.

Open Registration

Open registration is available to all currently enrolled Washburn students who did not advance register during their classification time frame, and to all new and former students who are eligible for admission and have completed the application or reapplication process. New and returning students will need to have obtained their WIN (Washburn Identification Number) and their MyWashburn Account information before they can register on the web. Specific dates will be in the Registration Information Guide for each semester and summer term.

Late Enrollment

Late enrollment is available for returning or admissible students who did not enroll before the first day of classes. Students may enroll online during the first week of class. During the second and third weeks of class, new enrollments and added courses will require permission of the instructor. No student may begin an enrollment schedule after the third week of semester classes. See the respective semester Registration Information Guide for details.

The summer session will have its own specific deadlines according to the length of session or class. See the Summer Registration Information Guide for details.

Kansas Residency and Tuition Assessment Policy

The University charges two residency rates of tuition for undergraduate, graduate, and law courses: 1) a resident of Kansas rate for students who can meet the University's residence requirements and 2) a non-resident of Kansas rate for those who do not qualify as a resident of Kansas. No

refund shall be made if residence qualifications are met after the end of the fifth week of the semester.

Definitions

"Residency" or **"Resident Status"** shall mean that status which is achieved when sufficient proof of a domicile within a state is presented.

"Domicile" shall mean presence within a state with intent of making the state a permanent home for an indefinite period.

Factual Criteria in Determination of Resident Status

1. A resident's attendance at an institution of higher education outside of Kansas shall be regarded as a temporary absence from the state; therefore, a student neither gains nor loses resident status solely by such attendance.
2. The burden of proof of establishing eligibility for Kansas resident status shall rest with the student.
3. In determining resident status for the state of Kansas, the following shall be sufficient proof of domicile of a person and their dependents within the state of Kansas:
 - a. Presence within the state of Kansas for a minimum of the six (6) consecutive months prior to the start of the period of attendance coupled with proof of an intent to make the state of Kansas a permanent home for an indefinite period;
4. In determining whether a student holds an intent to make the state of Kansas a permanent home for an indefinite period, the following factors, although not conclusive, shall be given heavy weight:
 - a. Continuous presence in the state of Kansas during those periods not enrolled as a student.
 - b. Presence within the state of Kansas upon marriage to a Kansas resident and the maintenance of a common domicile with the resident spouse.
 - c. Substantial reliance on sources within the state of Kansas for financial support.
 - d. Former domicile within the state and maintenance of significant connections while absent.
 - e. Ownership of a home within the state of Kansas.
 - f. Employment within the State of Kansas.
The six- (6) month period of presence within the state, as stipulated in paragraph 3 of this rule, in and of itself, does not establish resident status in the absence of the required proof of intent.
5. The following factors indicate intent to make the state of Kansas a permanent home for an indefinite period shall be given equal weight than those in subsection above and include:
 - a. Voting or registration for voting.
 - b. Part-time employment.
 - c. Lease of living quarters.
 - d. Automobile registration or operator's license obtained in Kansas.
 - e. Acquisition of Kansas driver's license.
 - f. Payment of income, personal and property taxes in Kansas.
 - g. The factors listed in this subsection have applicability only as they support the intent to make the state of Kansas a permanent home for an indefinite period.
6. The following criteria shall be sufficient to establish eligibility for Kansas resident status pursuant to Section 702 of the Veterans Access, Choice and Accountability Act of 2014 ("Choice Act"):

- a. A Veteran who lives in Kansas (regardless of his/her formal state of residence) and enrolls in the school within three years of discharge from a period of active duty service of 90 days or more.
 - b. A spouse or child (as defined in the Choice Act) using transferred benefits who lives in Kansas (regardless of his/her formal state of residence) and enrolls in the school within three years of the transferor's discharge from a period of active duty service of 90 days or more.
 - c. A spouse or child using benefits under the Marine Gunnery Sergeant John David Fry Scholarship who lives in Kansas (regardless of his/her formal state of residence) and enrolls in the school within three years of the Service member's death in the line of duty following a period of active duty service of 90 days or more.
 - d. Any person who qualifies for Kansas resident status pursuant to this Section 6 shall retain that status as long as the person remains continuously enrolled at Washburn University.
7. A student who transfers to the Washburn University campus from another Kansas public college or university without an interruption in enrollment, except for a summer term, and who possessed resident status at the prior institution shall be granted resident status at Washburn University.

Associate, Bachelor's, Master's, or Doctorate degree at Washburn University.

Appeals

Any student wanting to appeal a residency relative to his or her current residency status shall complete the Resident Status Appeal Form and submit to the campus residency officer (Associate University Registrar). The Resident Status Appeals Committee will review the appeal and all provided documentation.

The Resident Status Appeals Committee shall review the appeal and provide such student with a decision based upon submitted materials. The committee will also notify the University Registrar's Office, the Financial Aid Office, and the Business Office of their final decision.

The student may appeal an adverse ruling with new or additional information to the Executive Director, Enrollment Management, whose decision shall be final.

Resident Status Appeal Committee Procedures

1. Student needs to submit completed appeal form with supporting documentation to Associate University Registrar within 30 days after the start of a semester. Students will be encouraged to submit the form and all documentation at once not separately.
2. The committee will meet as needed to review appeals.
3. All residency status changes will be reviewed as a group.
4. Once the committee decision has been made the student will be notified by their MyWashburn email.
5. Students wanting to appeal the committee's decision will be directed to the Executive Director of Enrollment Management only if new or additional information can be provided.

Educational Fee Assessment Rules

1. **Rates Assessed.** Residents of Kansas as defined in the residence rules will be assessed tuition at the resident rates. Students who are not residents of Kansas as defined by these rules will be assessed the tuition at the nonresident rates.
2. The **exception of the payment** of out-of-state tuition rates granted in paragraphs 4, 5, 6, and 7, shall be applicable only for the first six months such person is residing in the state of Kansas. Thereafter, he or she shall be eligible for in-state residence tuition rates only if he/she has established domiciliary residency in the state and can provide the indicia of residency in Kansas.
3. **Education Employment Tuition Waiver** - Persons who are full-time employees of a state educational institution.
4. **Active Duty Military Tuition Waiver** - Persons who are in active military service.
5. **Military Tuition Waiver** - For persons who do not already qualify for in-state tuition pursuant to The Choice Act, Section 6 above, persons who are domiciliary residents of the state, who were in active military service prior to becoming domiciliary residents of the state, who were present in the state for a period of not less than two years during their tenure in active military service, whose domiciliary residence was established in the state within thirty (30) days of discharge or retirement from active military service under honorable conditions, but whose domiciliary residence was not established at least six months prior to the first day of enrollment for the semester in which the students are enrolling.
6. **Employment Tuition Waiver** - Persons who are domiciliary residents of the state, who are employed on a full-time basis and whose employment requires at least 1,500 hours of work per year, whose domiciliary residence was not established at least six (6) months prior to the first day of enrollment for the semester in which the students are enrolling.
7. **Alumni Tuition Waiver** - Persons who are not domiciliary residents of Kansas, but are the dependent children (legal children, stepchildren or wards) of a graduate of Washburn University. For the purposes of this policy a graduate is any person who has earned a Certificate,

Tuition and Fees

Financial Obligations

Tuition and fees are established by the Washburn University Board of Regents and are subject to change. Once a student has enrolled in classes, she or he is liable for tuition and fee charges unless the student withdraws from all classes before the end of the 100% tuition refund period (fees are non-refundable after the term begins). Financial aid eligibility may change upon withdrawal from one or more classes, leaving a balance due on the student account. If receiving financial aid and/or scholarships, students are encouraged to contact the Financial Aid Office prior to withdrawing from classes. Payments can be made online in WU-VIEW which can be accessed through MyWashburn, Financial Services tab. Payments may also be made by mail or in person at the Cashier Window in Morgan Hall 103. The Cashier Window is open between 8:00 AM and 5 PM, Monday through Friday, except on Wednesday, when office hours are 9 AM to 5 PM. A depository is located next to the Cashier Window to receive payments after office hours. Washburn University accepts cash, checks, and debit cards at the Cashier Window, and electronic checks, debit, and credit cards (VISA, MasterCard, Discover and American Express) online for the payment of tuition and fee charges. The processor charges a convenience fee of 2.85% for each credit card transaction submitted online.

All tuition and fee charges must be paid, or an installment plan set up, by the published "last day to pay without a late fee" to avoid penalties (more below). An installment plan may be set up in WU-VIEW, accessed through MyWashburn, Financial Services tab. There is a \$30 setup fee for the installment plan and a \$25 late fee for each installment not paid on time.

Installment payments may be made online in WU-VIEW, by mail, or in person at the Cashier Window in Morgan 103. Students or an authorized user may set up scheduled payments in WU-VIEW to automatically pay installments from a bank account or card. E-mail reminders will be sent to students and authorized users who schedule payments.

Electronic bills will be generated on a monthly basis and may be viewed in WU-VIEW. NO PAPER BILLS ARE SENT. A Financial Obligation Letter is sent to students with a balance mid-January or Mid-August, but may not be sent if a student enrolls after that date. No obligation letters are sent for the Summer term.

Academic Status: Full-Time and Part-Time Students

Students are defined as full-time in the Fall and Spring semesters if they are:

- Undergraduates enrolled in at least 12 credit hours.
- Graduate students enrolled in at least 9 hours.
- Law students enrolled in at least 9 hours.

Students are defined to be half-time in the Fall and Spring semesters if they are not full-time and are:

- Undergraduates enrolled in at least 6 hours.
- Graduate students enrolled in at least 5 hours.
- Law students enrolled in at least 5 hours.

During the summer session, any student enrolled in at least 6 hours is considered full-time, while students enrolled in at least 3 but fewer than 6 hours are considered half-time. For financial aid purposes, full-time enrollment in the summer is 12 hours for undergraduate students and 5 hours for graduate and law students.

Tuition

The tuition charge is applicable to all terms of work such as regular semester, evening program, etc., whether taken for credit or as an audit.

Categories of Charges

Tuition and fees vary by category of student. Current rates may be viewed on the Business Office website (<https://washburn.edu/student-life/business-office/index.html> (<https://washburn.edu/student-life/business-office/>)).

Existing categories of undergraduate students

Undergraduate

- Traditional Undergraduate (resident)
- Traditional Undergraduate (nonresident)
- Traditional Online UG
- Undergraduate Distance Education
- Bachelor of Health Sciences
- School of Business UG (resident)
- School of Business UG (nonresident)
- School of Business UG Online
- School of Nursing UG (resident)
- School of Nursing UG (nonresident)
- School of Nursing UG Online
- School of Nursing UG Online RN to BSN

Allied Health Programs

- CLS/CT/MRI & Sonography
- Radiation Therapy

High School Programs

- Concurrent Enrollment Program
- Concurrent Enrollment Program (business)
- Senior Academy
- Senior Academy Online

Information on tuition residence categories may be obtained from the section, "Residence Qualifications." All traditional Undergraduate classes are billed as "resident" during Summer Session.

Fees

Current fee structure may be viewed at the Business Office website (<http://washburn.edu/student-life/business-office/index.html> (<http://washburn.edu/student-life/business-office/>)) on the tuition and fees link (<https://washburn.edu/student-life/business-office/tuition-fees.html>).

Credit by Exam Fee

A \$50 fee per exam is assessed.

Student Fee

The Student Fee is required of all students attending the University who are enrolled in the regular Fall and Spring semesters. Student fees are charged regardless of whether the courses are on-campus or off-campus. Student fees are non-refundable after the term begins and are not charged in Summer.

Private Music Lessons

Students majoring in curricula that require private lessons in music pay no additional fee for their lessons if they enroll and remain enrolled in 12 credit hours for a full semester. All other students are charged for private lessons, in addition to the credit hour charge, according to the categories listed below:

Semester Charges ¹

The per-semester-charges for private music lessons vary as follows:²

- Full-time music majors are charged an additional fee for private lessons, but are provided a waiver for that expense from the Music Department.
- All other students must pay an extra fee at the current resident undergraduate hour tuition rate for each hour they enroll.

¹ For additional information contact the music department.

² All private music lesson charges are rounded to the nearest dollar.

Private music lessons falling on legal and all-school holidays will not be made up. Lessons missed by the student will be made up only if satisfactory arrangements can be made with the instructor. Lessons missed by the instructor will be made up by the end of the semester. If a student withdraws from applied lessons after the "Last day to enroll without a late fee," there will be no reimbursement of fees. The only exceptions will be prolonged illness, administrative error, or death.

Private lessons are not available during the summer sessions.

Miscellaneous Charges

Late Fees will be charged to those students who have not completed the payment for tuition and fees, or set up an installment plan, by the date set and published as the last day to pay without a late fee. A single late fee, based upon the number of credits in which they are enrolled, will be charged.

Credit Hrs.	Late Fees
0.5-3.0	\$25.00
3.5-6.0	\$50.00
6.5-9.0	\$75.00
9.5+	\$100.00

Cap and Gown Use

The student is responsible for making arrangements and for paying the Ichabod Shop for use of cap and gown during commencement exercises.

Laboratory Usage

The student is expected to compensate the University for laboratory breakage or damage to other University property due to negligence, carelessness, or failure to follow instructions.

Course Materials Charge

Certain courses may have materials or other course-related fees in addition to tuition charges. Information on specific course fees can be obtained from the academic department offering the course.

Housing Payments

If a resident of University housing fails to make payments or enroll in a term payment plan according to the published payment deadline for the term (see Business Office website (<https://washburn.edu/student-life/business-office/>)), a hold will be placed on the person's records. Advance registration and enrollment in subsequent terms will not be permitted until the financial obligation is paid in full.

Parking Fines

Failure to pay a University parking fine within five days of the due date results in a late payment fee of \$10.00. If the student does not pay the fine and the late payment fee, a hold will be placed on the student's records, restricting registration in courses, the ability to obtain transcripts and/or diploma. Enrollment in subsequent terms will not be permitted until the financial obligation is paid in full. Parking and traffic regulations are distributed each semester.

Library Fines/Other University Financial Obligations

Failure to pay a library fine or any other University financial obligation which has not been discussed above will result in a hold being placed on the student's records, restricting registration and the ability to obtain transcripts and/or diploma. Enrollment in subsequent terms will not be permitted until the financial obligation has been paid in full.

Liability for Institutional Charges

(Tuition, Fees, Housing, Fines, etc.)

Once a student has enrolled in classes, she or he is liable for tuition and fee charges unless the student withdraws from classes via the web. Tuition charges for full-term classes from which a student has withdrawn will be removed from the student account according to the published refund schedule. Tuition charges for classes that are less than full term

from which a student has withdrawn will be removed according to a pro-rated schedule.

Having tuition charges removed from the student account does not necessarily mean there will be a refund. In fact, if withdrawal from one or more classes results in having financial aid removed as well, the student may owe a balance. Students considering withdrawing from one or more classes need to be sure that the financial implications are clearly understood before withdrawing.

If a student withdraws from one or more classes in which she or he has enrolled, it may be necessary to return all or a portion of the Title IV financial aid (e.g. loans and/or grant aid) that were received for the term, as required by federal regulations. Based on this calculation and the refund period, the student may have to repay Washburn University up to the amount of aid that has been returned.

Please note that the student fee is refundable up to the first day of class and is non-refundable once class begins, even if the student withdraws from all classes. Refunds and/or charges that are due to a student leaving campus housing are governed by the terms of the housing contract.

Failure to pay any tuition, late fees, or other charges when due may subject the student to:

- Holds and non-release of the student's records, including transcripts.
- Holds and non-release of diplomas/certificates.
- Restrictions on advance registration and enrollment in subsequent semesters.
- Placement of the balance due with the Kansas Debt Recovery System (setoff program) and/or other collection agencies.
- Collection charges, including attorney fees, incurred as part of collection efforts.

Holds will be lifted only after the student has made full payment.

A student with a history of returned checks paying an outstanding balance with a personal check will not have a hold lifted from the student's account until the check has cleared. Post-dated checks will not be accepted for payments. **Returned checks are subject to a \$30 fee.**

Refunds

A student permitted to withdraw from a course or courses in an academic session in which he or she is enrolled may be eligible for a refund of the University tuition paid for that course or courses. No refunds will be made of the late fee unless the failure to settle the account balance in a timely manner was due to an error on the part of Washburn University. In the event the student is a financial aid recipient, the refund will first be made to the financial sources used to pay such tuition, including but not limited to scholarships, grants, and Federal Title IV funds. Withdrawal from a course or courses making the student ineligible for the grant, aid or scholarship paid shall require the student to make repayment of the grant, aid or scholarship pro-rated on the basis of the amount of the student's participation in the activity for which the grant, aid or scholarship was awarded. If the student has any unpaid account with the University, any refund from withdrawal may be applied to such an account. Any amount paid to the University that exceeds tuition and fees paid by these other sources, and any amounts due to the University, shall then be paid to the student. For students who completely withdraw from classes and have received Federal Title IV funds, please refer to the Federal Return of Title IV funds policy available in the Financial

Aid office or on the web at www.washburn.edu/financial-aid (<http://www.washburn.edu/financial-aid/>) and select “Right to Know.”

If a student account has a refundable credit balance, a refund will be generated. The preferred method of disbursement of excess financial aid is via direct deposit to a student checking or savings account, (which the student sets up via MyWashburn, Financial Services tab, WU-VIEW, Electronic Refunds). The University reserves the right to refund credit balances to credit card(s) used to make payment(s) on the student account. Parents will normally receive any excess funds for Parent PLUS loans by mail.

Students may request that a check be mailed, or they may pick up a check – specific dates, times and places for that process will be posted on the Business Office website (<https://washburn.edu/student-life/business-office/>). The student is responsible for ensuring that all contact information is correct and up to date. Students can change their mailing address and other contact information through their MyWashburn account. It is important to make sure address information is correct and up to date. Checks are normally mailed to the current address on file with the Business Office.

Due to the unique nature of the various programs offered, cancellations and refunds for non-credit offerings may be different depending on the program or course. If a student is unable to attend a course, she or he should refer to the cancellation and refund policies established for each program as indicated in the program brochure, on the program web page, or by contacting the coordinator responsible for the program.

The first official day of classes constitutes the beginning of the semester for tuition refunds. For courses which are scheduled out of sequence of the regular Fall and Spring Semesters and Summer Session, the day published as the official first class meeting for the course constitutes the beginning of the course for tuition refund purposes, assuming the course is for a term of five or more weeks and is subject to tuition refund. Withdrawal from a course and enrollment in another course are treated as separate transactions and there may be fees attached. Information about Refunds Dates by Course is available on the Business Office website: <https://washburn.edu/student-life/business-office/tuition-refunds.html>.

Refund Due to Death of a Student

If a student should die during a semester/session in which the student is duly enrolled, the student’s estate will be refunded the tuition and fees based on the above stated policies, providing the student has no other outstanding University financial obligations. To initiate this process, the family may contact the Associate Vice President of Student Life, Morgan Hall.

Non-Credit-Hour Courses (Sponsored by Departments/Divisions)

For non-credit conferences, institutional seminars and community service offerings that are of more than one-day duration and are not described in a separately published brochure, the refund is 100% if the official withdrawal notice is received on or before the first day after the first class session. There is no refund for these courses following the first business day after the first class session.

Financial Aid

Website: www.washburn.edu/financial-aid (<http://www.washburn.edu/financial-aid/>)

Washburn University provides financial aid assistance through scholarships, state programs, federal grants, federal work study, and federal student loans. Washburn University Academic Scholarships may be available to undergraduate students who meet the minimum cumulative GPA requirements, enrollment criteria, and the priority date of December 1, based on availability of funds. In addition, scholarships may be available to students through their academic department, based on their program of study.

Washburn Undergraduate Academic Scholarships are available up to a maximum of eight consecutive semesters or until a student completes their first undergraduate bachelor’s degree, whichever comes first. To qualify for renewal of academic scholarships each year, students must maintain a required Washburn University cumulative grade point average, as indicated here (<https://www.washburn.edu/admissions/paying-for-college/scholarship.html>) (per each award), complete and pass at least 24 credit hours between the fall and spring semesters at Washburn University. If the above criteria is not met, students who can meet the criteria with summer courses at Washburn University can appeal using The Academic Scholarship Appeal Form available online at washburn.edu/faforms.

Federal financial aid is awarded for one year with its continuance based upon financial aid eligibility, as determined by the Free Application for Federal Student Aid (FAFSA) and Satisfactory Academic Progress.

Washburn University’s Satisfactory Academic Progress Policy can be reviewed at washburn.edu/sap

Students must apply for financial aid each year by completing the FAFSA on the web at www.studentaid.gov (<http://www.studentaid.gov/>). Washburn’s federal school code is 001949. The FAFSA becomes available each year on October 1 for the following academic year. To be considered for limited campus-based funds, eligible students should complete their FAFSA as soon as possible after October 1, but no later than Washburn University’s November 15 priority date. Admission to Washburn University is a prerequisite for consideration of financial aid.

Summer financial aid is based on remaining annual federal aid eligibility – i.e. federal funds that were unused during the fall and spring semesters of the academic year. However, Pell eligible students may have additional funds available in the summer, if enrolled in at least six hours. To be considered for summer financial aid, students must have a valid FAFSA on file and complete the Summer Financial Aid Application, which becomes available in late spring each year.

All financial aid and scholarships must first apply to students’ tuition and fee charges. Any excess financial aid may be issued to the student as a refund. Please see the “Refunds” section for more information on receiving a refund from financial aid funds.

Washburn University has partnered with the i3 Group to assist current and former students. The i3 Group is a financial aid counseling service that answers questions and assists current and former students with their Federal Student Loans. The i3 Group’s goal is to provide quality customer service while helping students stay informed of the status of their loan, provide alternative repayment options, and to promote solutions to every student to avoid default. Each current and former student will have the ability to register for their own Iontuition account at www.iointuition.com (<http://www.iointuition.com>). Iontuition is a self-help web tool that allows the student to review their loan status, payment amount, due date, and servicer in one user-friendly location. Iontuition also includes budgeting tools and repayment calculators to

assist students with all of the repayment options available. Both are free services provided to the students on behalf of Washburn University.

For more information, contact the Financial Aid Office at 785-670-1151 or financialaid@washburn.edu, or stop by the Student One Stop in Morgan Hall.

Center for Student Success and Retention

First-Year Experience

Website: www.washburn.edu/fye (<http://www.washburn.edu/fye/>)

Mabee Library, Room 309
(785) 670-1942

First-Year Experience (FYE) supports the academic, social, and personal transitions of all first-year students. Through collaborative efforts with faculty, staff, and peer educators, we empower and support first-year students by providing intentional courses, programs, and services that promote success and persistence in college. The Washburn FYE program seeks to help students begin the process of becoming information literate to promote student success in the Information Age.

First-Year Experience initiatives include the iRead common reading program, success skillshops, the first-generation student mentoring initiative, and special programs for first-year students. FYE is involved in New Student Orientation, Welcome Week, and Convocation. Beyond programmatic efforts, the First-Year Experience offers a series of success courses.

FIRST YEAR EXPERIENCE COURSE

WU 101 The Washburn Experience

This course, which is a requirement for graduation, is designed to help students develop the vital skills necessary to successfully transition into Washburn University by focusing on topics such as: information literacy, academic honesty and success, college reading and writing, campus involvement, and others that promote student success at Washburn.

Additional courses which may assist students in achieving success at the university include:

Code	Title	Hours
WU 120	Major and Career Exploration	2
IL 170	Library Research Strategies	1
IL 171	Internet Research Strategies	1
IL 300	Information Literacy for Scholars	3

Course descriptions can be found in the Interdisciplinary Academic Programs section under Interdisciplinary Studies (WU prefix) and Information Literacy (IL) subsections.

Office of Academic Advising

Website: www.washburn.edu/advising (<http://www.washburn.edu/advising/>)

Mabee Library, Room 201
(785) 670-1942

The Office of Academic Advising serves as a resource for high quality academic advising for the entire Washburn community. Academic

Advising provides services and referrals to first-year, exploratory, prospective, transfer, probationary, and reinstated students. Academic Advising oversees both the Passport for Success (see below) and the Academic Fresh Start Program. Professional advisors assist exploratory students with academic questions, provide information about university policies, regulations, and services, assist students with course selection, and guide students in the exploration of majors. Advisors are available in Mabee 201 for daily drop-in times and appointments—Students use the Navigate App to schedule or call (785) 670-1942. Extended hours offered during the regular semester. Visit www.washburn.edu/advising (<http://www.washburn.edu/advising/>) for more information.

Passport for Success & Ignite Programs

Students admitted by exception to regular admission are required to participate in either the Passport for Success program or the Ignite program. Students are provided a personalized pathway to success that requires adherence to the following criteria.

- Advisor approved course selection and scheduling, leading to approved associate degree.
- Limit on number of semester hours: 12 credit hours per semester during their first year, with recommended summer classes to maintain 30 credit hours per year. (Exceptions granted by advisor approval.)
- Mandatory multi-session per semester advising: These three academic advising sessions will include academic assessment, program and degree planning.
- Enrollment in WU 101 The Washburn Experience during first semester of attendance.
- Enrollment in WU 115 Academic Enhancement as directed by advisor
- Participation in study skills, career planning, test taking and other seminars offered by the University Tutoring & Writing Center.
- Tutoring as needed.

University Tutoring & Writing Center

Website: www.washburn.edu/tutoring (<http://www.washburn.edu/tutoring/>)

Mabee Library, Room 309
(785) 670-1227

Students are encouraged to maximize their success by utilizing tutoring services provided through the Mabee Library. The University Tutoring and Writing Center offers support for students seeking assistance with writing and other specific courses. All services are free of charge. For hours and additional information see www.washburn.edu/tutoring.

Center for Testing and Prior Learning

Mabee Library, Room 218

The Academic Testing office administers placement tests for new students, proctors exams for Washburn students who are concurrently enrolled in a distance education course at another college and serves as a testing center for a number of national standardized testing programs.

Additional Academic Services

The Harlan J. Koca Mathematics Enrichment Program Tutor Center

The Math Lab is a peer tutoring facility for students in the following courses:

Code	Title	Hours
MA 103	Basic Algebra	3
MA 104	Intermediate Algebra	3
MA 112	Contemporary College Mathematics	3
MA 116	College Algebra	3
MA 117	Trigonometry	3
MA 123	Pre-Calculus	3
MA 140	Statistics	3
MA 141	Applied Calculus I	3
MA 151	Calculus & Analytic Geometry I	5

No appointment is necessary. Please visit <https://www.washburn.edu/academics/college-schools/arts-sciences/departments/mathematics-statistics/mathtutor.html> for more information.

Departmental Advising/Tutoring

Academic advising for students with a declared major are advised through their academic department. Students should consult with their department for further information about departmental tutoring.

Supplemental Instruction in the Sciences

Students completing science courses should contact their instructor regarding supplemental instruction opportunities.

Student Life

- Office of Student Life (p. 22)
- University Diversity and Inclusion (p. 22)
- Career Services (p. 23)
- Student Health and Counseling Services (p. 23)
- Residential Living (p. 24)
- Washburn Student Government Association (WSGA) (p. 24)
- Office of Student Involvement and Development (p. 24)
- Student Media (p. 24)
- Greek Organizations (p. 24)
- Honorary Organizations (p. 25)
- Student Recreation and Wellness Center (p. 25)
- Intercollegiate Athletics (p. 25)
- Housing (p. 25)

Office of Student Life

Student Life enriches the educational experience of the Washburn community with an appropriate balance of challenge and support, through a commitment to learning, student development and advocacy. We value all students and strive to create environments which foster the sustained development of well-balanced, civic-minded individuals.

The following Student Life units cooperate to play integral roles in achieving this mission: Career Services; Residential Living; Student Health and Counseling Services; Student Life Office; Student Recreation and Wellness; and University Diversity and Inclusion.

Resolving Problems

Faculty and staff at Washburn University are committed to student success which includes everything from efficient business processes to excellent experiences both inside and outside the classroom.

Despite this campus-wide commitment, however, it is inevitable that misunderstandings or disputes may arise periodically. Such misunderstandings can typically be resolved quickly, directly and informally at Washburn. For more information please visit <https://washburn.edu/student-life/services/resolving-problems.html>

The Washburn University of Code of Conduct is available at <https://www.washburn.edu/student-life/policies-forms/academic-policies.html>

Campus Resolution

If you want to visit with someone informally, privately and respectfully about a problem you are experiencing, you may contact the Student Life Office (785) 670-2100 or joel.bluml@washburn.edu. (joel.bluml@washburn.edu) This office can provide advice about the options available to you and also can assist in finding an informal way of resolving your problem.

Depending on the nature of your concern, a specialized procedure may apply. Policies and procedures designed to assist you in obtaining resolution to the issue you are dealing with exist in many areas within Washburn University. The Student Life Office can direct you to the campus resources that are directly responsible for assisting students with the specific challenges you are experiencing.

University Diversity and Inclusion

Website: www.washburn.edu/diversity/multicultural/index.html (<http://www.washburn.edu/diversity/multicultural/>)

Morgan Hall 105
785-670-1629
diversity.inclusion@washburn.edu
[@diversitybods](https://twitter.com/diversitybods)

The Office of University Diversity and Inclusion provides leadership and support to campus and the community to address issues, policies and potential barriers to creating a welcoming and respectful working and learning environment.

The Office of University Diversity and Inclusion also responds to accommodation requests for students with disabilities, manages Veteran's programs and provides resources to the campus LGBTQ+ community. University Diversity and Inclusion staff collaborate with campus organizations and regional community organizations to develop, promote and host innovative training, programs that enhance the university climate, promote a culture of inclusion and demonstrate the universities commitment to excellence and diversity.

University Diversity and Inclusion - Student Accommodations, Campus Accessibility

Morgan Hall 105
785-670-1629

University Diversity and Inclusion staff are responsible for assisting and arranging accommodations and for identifying resources on campus for students with disabilities. Students with disabilities must register with the office and provide appropriate medical documentation to be eligible for services. Documentation should include a statement identifying the disability, how and when it was diagnosed, and how it affects the student's academic performance. Accommodations are provided to

meet the needs of individuals, based on their specific disabilities, e.g. depression, physical or learning disability, and may include in-class note takers, test readers/scribes, adaptive technology training, brailled materials, or other necessary accommodations. Requests for accommodations should be submitted at least 60 days before services should begin; however, students should contact the office immediately when they become aware of the need for an accommodation need. Instructors may be involved in the process of determining appropriate accommodations. Instructors are encouraged to contact the office immediately when students voluntarily identify disabilities or make accommodation requests.

University Diversity and Inclusion - Veterans Education Benefit Programs

Morgan Hall 105
785-670-1629

To apply for Veterans Administration (VA) educational benefit programs, the students should contact the Office of University Diversity and Inclusion, or call the VA at 1-888-442-4551.

Student recipients of Veterans related educational assistance must certify their enrollment each semester through the Office of University Diversity and Inclusion to assure continuous benefits. Students receiving Veterans assistance must contact the Office of University Diversity and Inclusion any time they drop or add classes. Changes in enrollment, such as dropping courses, adding courses, or formally withdrawing from the University, must be submitted to the VA. VA regulations require veterans to pursue an educational objective, file a degree plan, regularly attend classes, and make satisfactory progress. Students should contact University Diversity and Inclusion staff for detailed information regarding veteran educational programs, benefits and requirements.

Military Deployment Withdrawal

Students who are called to active duty and must withdraw from classes as a result should contact the Office of University Diversity and Inclusion, Morgan Hall 105. Phone 785-670-1629. Email diversity.inclusion@washburn.edu.

Career Services

Morgan Hall 105
785-670-1470

Washburn University Career Services provides coaching and assistance to WU students in two basic areas:

- Career exploration – deciding on major and career path
- Preparing for and finding experience – part-time, full-time, and internship

Career Services staff members conduct class presentations, individual in-person and virtual coaching sessions, and workshops around all topics surrounding career development, from career assessments to resume writing to interview practice. Career events on campus include career fairs, resume review days, and employer interview sessions.

Handshake (washburn.joinhandshake.com (<https://washburn.joinhandshake.com/>)) is the primary tool for students to engage initially with employers and Career Services. Handshake hosts

- Job and internship postings for WU students
- Appointment scheduling with Career Services
- Student resumes and profiles
- Employer database
- Virtual fairs, event information and on-campus interview schedules

In addition, Career Services maintains a comprehensive website (washburn.edu/career-services) with helpful resources for every step of the career development process, such as career exploration, resume writing, interviewing, LinkedIn, and choosing graduate school programs.

Current students can schedule individual appointments via Handshake. For more information for students or alumni, please call Career Services at 785-670-1450 or email career-services@washburn.edu. Career Services is open 8 a.m. – 5 p.m., Monday – Friday.

Student Health and Counseling Services

Student Health Services

Morgan Hall 140
785-670-1470

Washburn University Student Health Services exists to enhance the learning and development of University students (and staff/faculty), through provision of holistic health care, with a strong emphasis on education, prevention, affordability and patient advocacy. Immunizations, TB testing and urgent care are provided for students, faculty and staff. Additional primary care services include health promotion/ education, treatment of stable chronic conditions, physical exams, well woman exams, psychological care in collaboration with Counseling Services, and referrals to community resources if necessary. All clinic services are confidential, and provided at low cost to no cost by our nurse practitioner providers. For more information, please visit <https://www.washburn.edu/student-life/health-services/index.html>. A low cost health insurance program is available to all students registered for at least 5 credit hours. Information about this plan is available at Student Health Services and at the Student Life office. For more information, visit <http://www.washburn.edu/current-students/services/health-services/index.html>.

Counseling Services

Kuehne Hall 200
785-670-3100

College life can be very stressful. At times, students may want additional support to help manage stress and maximize success. Counseling is a place to explore any area of life that a student may be concerned about or wish to improve. For instance, if a student is feeling depressed, anxious, or distracted, counseling may be helpful. Advocacy and case management are available through Counseling Services as well. All services are confidential and free for currently enrolled students. For more information, visit www.washburn.edu/counseling.

Additional services are available by phone 24 hours a day/ 7 days a week by calling 785-670-3100 and selecting option 2 to speak to someone immediately.

Residential Living

The mission of the Residential Living Office is to support the university community by providing a comfortable, secure, and diverse living and learning environment for students that encourages community relations and personal and academic development. First time, full time undergraduate students that are coming to Washburn directly from high school are required to live on campus for their freshman year.

Washburn's state-of-the-art living facilities have been recognized in national magazines for their comfort and design. Students report that living on-campus is the best way to make new friends, have fun and be healthy! Descriptions of on-campus housing options can be found in the Campus and Facilities section of the catalog. For a housing contract or housing exemption requests, or further information, please visit www.washburn.edu/resliving or contact:

Residential Living Office, Washburn University
1801 SW Jewell Ave.
Topeka, KS 66621.

The office phone number is 785-670-1065 and the email address is resliving@washburn.edu.

Washburn Student Government Association (WSGA)

The Washburn Student Government Association (WSGA) exists to serve the students and registered student organizations with any problems or concerns they may have. Members of the student body are automatically members of WSGA.

The WSGA Senate is the student government arm of the association. There are 34 senators: 27 that are elected by the student body in the spring and 5 freshman senators that are elected by the freshman student body in the fall. One transfer senator and one international student senator is appointed by the executive staff throughout the year as vacancies occur. Applications for appointment are available in the WSGA office. Senators must maintain a 2.0 GPA and be enrolled in at least three hours as an undergraduate.

The president and vice president of WSGA are elected each spring by the student body. They, in turn, appoint an executive staff which is responsible for carrying out the decisions of the senate.

The senate is funded by a portion of student activity fees. These fees help provide student services such as the WSGA Lecture Series, Success Week events and Homecoming. All registered student organizations are eligible to request funding for their group's activities from WSGA. For more information, please contact WSGA at 670-1169 or visit www.washburn.edu/wsga/

Office of Student Involvement and Development

The Office of Student Involvement and Development, in conjunction with the Student Life area, supports the Washburn community through the creation of co-curricular experiences that encourage collaboration and inclusivity to enhance student learning, through leadership development, and campus engagement. Located in the lower level of the Memorial Union, the Office of Student Involvement and Development provides a wide range of services and activities at Washburn designed to enhance

campus life through recreational, leisure, social, entertainment, cultural, and service programs.

With over 125 student organizations and clubs (<https://www.washburn.edu/student-life/student-involvement/>), the Office of Student Involvement and Development provides an opportunity to serve and get connected to the University and community. The office assists student groups in program planning and leadership development. It provides information on existing student groups; establishes guidelines for developing new organizations; offers advice on setting organizational goals and objectives, fund-raising, or developing a constitution; assists in scheduling speakers, events and meetings.

Office of Student Involvement and Development at 670-1723 or student.involvement@washburn.edu

[@washburn.edu \(student.involvement@washburn.edu\).facebook.com/cabatwu.](https://www.facebook.com/cabatwu)

Student Media

Student Media at Washburn University offers multiple experiences for students. The Review is the student newspaper, which publishes 13 issues weekly during the fall and spring semester. Washburn's award winning student publication has a long history of offering the student body and faculty current news, interesting features and lively opinions. The Review staff is open to all interested students to apply; visit the office in the basement of Memorial Union. The paper is distributed free in all of the main buildings on campus. In addition to the printed version, students maintain the Washburn Review Online, www.washburnreview.org, throughout the year, including holiday breaks and summers.

Students also produce two issues of Bod Magazine each year as well as the Kaw Yearbook. Student Media offers opportunities for learning and applying technology across a variety of platforms. It employs reporters, photographers, podcasters, videographers, designers, sales and promotion staff, copy editors, editors and web managers. To reach students in charge, email review@washburn.edu.

Greek Organizations

Washburn University is home to 5 fraternities and 6 sororities. The Greek community of Washburn University provides a comprehensive

educational and social learning experience for all of its members through the promotion of academics, leadership and personal development, brotherhood and sisterhood, and service to the University and the Topeka community.

National statistics show that students who participate in fraternity or sorority life increase their chances of graduating; build long lasting relationships with friends and with their university; serve in more leadership roles on campus; and on the average obtain higher grade point averages.

Panhellenic Council, Interfraternity Council, and Greek Council are the governing bodies for the chapters on campus and are comprised of members from each organization. Panhellenic Council sponsors fall formal recruitment activities where female students may participate in formal membership recruitment during September for 3 of the 4 sororities. The other sororities, Alpha Kappa Alpha, Gamma Phi Omega and Sigma Lambda Gamma have a deferred recruitment process. In addition, all students can participate in open membership recruitment

during the school year. The sororities at Washburn are: Alpha Kappa Alpha, Alpha Phi, Delta Gamma, Gamma Phi Omega, Sigma Lambda Gamma and Zeta Tau Alpha. The fraternities at Washburn are: Alpha Delta, Kappa Sigma, Phi Delta Theta, Phi Mu Alpha Sinfonia, and Sigma Phi Epsilon. Six of our fraternities and sororities provide on campus living. For more information on all of our chapters, visit our website www.washburn.edu/studentinvolvement (<http://www.washburn.edu/studentinvolvement/>) or contact the Office of Student Involvement and Development at 670-1723.

Honorary Organizations

An honorary organization often times offers a student recognition for academic excellence, leadership and service to the community. Washburn University sponsors a number of honorary organizations; many are connected to academic departments on campus. One such organization is the chapter of Phi Kappa Phi, a nonprofit honor society that promotes the pursuit of excellence in all fields of higher education and recognizes outstanding achievement by students, faculty, and others through election to membership, and through various awards for distinguished achievement. Please contact the Office of Student Involvement and Development for more information or a complete list (<https://www.washburn.edu/student-life/student-involvement/>).

Student Recreation and Wellness Center

The Student Recreation and Wellness Center provides individuals with the opportunity to build and belong to a community. The SRWC engages with students by providing programs and services that are fun, educational, promote healthy lifestyle habits, and enhance the student experience. For more details please visit [Washburn.edu/getfit](https://www.washburn.edu/getfit) (<https://www.washburn.edu/student-life/recreation-wellness/>).

Intercollegiate Athletics

Washburn University offers a variety of athletic programs for both men and women.

Men's sports:

- Baseball,
- basketball,
- cross country,
- football,
- golf,
- indoor and outdoor track and field,
- and tennis.

Women's Sports:

- Basketball,
- cross country,
- indoor and outdoor track and field,
- soccer,
- softball,
- tennis,
- and volleyball.

Washburn is a member of the national Collegiate Athletic Association (NCAA) Division II and the Mid-American Intercollegiate Athletic Association (MIAA).

Housing

Student Housing on Campus

Residential Living offers three unique residence halls available for students interested in living on-campus. The goal is to provide attractive on-campus housing designed to support the intellectual and social development of students

The Living Learning Center - The Living Learning Center serves students, faculty, staff, alumni, and community members by providing social and common areas, seminar rooms, dining services, a reading room, and on-campus student housing.

The LLC is a coed hall that includes 400 beds in modern, four-bed suites grouped for privacy and personal space. Wireless internet is available throughout the building. Students can experience the opportunities of on-campus living and an atmosphere that encourages learning. Rooms are arranged in clusters around community spaces that include television lounges, kitchenettes with ovens, sinks and microwaves; and spacious study rooms at the end of every wing.

Professional apartments are connected to the Living section of the Center. These accommodate the Residence Hall Coordinator and the Faculty-in-Residence.

Lincoln Hall – Lincoln Hall is a coed hall that houses approximately 350 students in two-, four- and six-person suites. Depending on the configuration of each suite, there is one or two bathrooms and sinks. Each suite also features a living area with seating for residents and guests. Students living in Lincoln Hall enjoy a common area on each floor that not only offers space to study individually or in groups, but allows the use of a kitchen area for personal or programmatic needs. Residents have access to laundry facilities, a conference room, mailboxes and vending machines. Lincoln Hall also is connected to Lincoln Dining which features all-you-can-eat meal options.

Washburn Village - This option provides apartment-style housing for students who are in their second or more year of college. This 192-bed facility, located on the southwest corner of campus, includes 2-, 3-, and 4-bedroom units. The apartments are fully furnished with a bathroom with a shower/tub combination, a living room, and a small kitchenette. The commons building includes a conference room for study, a lounge area with a large-screen TV, a game room, a reception desk, mailboxes, and 24-hour access to laundry facilities.

Off-Campus Housing

Many students prefer to live in apartments and residences in the neighborhoods immediately surrounding the University campus. Several apartment complexes are within easy walking distance of campus, and Topeka offers a large selection with easy access to campus.

Academic Programs and Policies

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Academic Institutes and Programs

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The Washburn Transformational Experience (WTE)

The Washburn Transformational Experience (WTE) provides Washburn University students with an exciting opportunity to do something truly extraordinary. In short, the main objective of the WTE program is to transform students into a new kind of individual. The WTE goes beyond the everyday classroom experience by allowing students to choose and create projects that reflect their interests. Students pursuing a degree have the opportunity to pursue one or more transformational experiences:

1. Scholarly or Creative activity,
2. Community Engagement,
3. Leadership,
4. International Education.

The Scholarly or Creative Transformational Experience

Fall 2021 Director: Dr. Bob Beatty

Henderson Learning Center, Room 215-B
785-670-1736

Spring 2022 Director: Dr. Kerry Wynn
Henderson Learning Center, Room 110
785-670-2062

Purpose: Students who have engaged with faculty members to advance knowledge, create music or art or literature, or participate in other experiences that require a high level of intellectual stimulation or achievement, graduate from the University prepared to solve increasingly complex problems and to sort through complex and sometimes contradictory information in order to gain fresh insight.

The Scholarly or Creative transformational experience is a significant scholarly or creative project completed under the tutelage of a faculty member. The format of the project may vary, but it must be an independent project that is not part of a structured (faculty-planned) course. The project may be part of a capstone course in which students create or develop their own projects, but not a course in which the students simply follow the direction of an instructor. While the nature of these projects varies by discipline, the project should result in a significant commitment of scholarly and/or creative effort on the part of the student, as judged by the student's faculty mentor.

The Leadership Transformational Experience

Director: Dr. Lauren Edelman

Benton Hall, Room 408
785-670-2000

Purpose: Students who serve in leadership roles are transformed by improved self-understanding derived from practical experience and examination of inspirational examples of selfless leadership service; they graduate from the University as citizens who recognize the abundance of leadership opportunities and are ready to accept the mantle of responsibility that comes with these opportunities.

Students electing the Leadership Transformational Experience will

1. complete with a grade of "C" or better at least 3 semester hours of college coursework consisting of an academic study of leadership (e.g., LE 100 Exploring the Concept of Leadership, LE 398 Special Projects - Leadership or any other course, provided that the unit offering the course and the Director of the Leadership Institute endorse it as an academic study of leadership); and
2. complete a change project (approx. 50 hours) approved in advance by the Director of the Leadership Institute.

Students who complete a Leadership Studies Minor or Certificate also complete a Leadership WTE in conjunction with their Leadership Studies program. In addition, an independent study may be arranged through the Leadership Institute which would encompass both the academic study component of the Leadership WTE as well as the change project requirement.

Students will work with a mentor and the Leadership WTE Director to include in their functional leadership roles a specific focus on

1. how to assess the strengths and weaknesses of their own leadership skills and
2. how a leader becomes an effective change agent.

Students will complete their experience by providing both written and oral reports that address what they learned about themselves and their own leadership skills, and how this learning has impacted their view of leaders and leadership.

The WTE in Leadership is administered by the Director of the Leadership Institute. (**Note:** Students who earn a Leadership Studies Minor or Certificate will have satisfied the Leadership Washburn Transformational Experience requirement.)

The Community Engagement Transformational Experience

Director: Dr. Richard B. Ellis
Benton Hall, Room 208
(785) 670-1950

Purpose: Students who have engaged with faculty members and other students in significant, meaningful community service, and who have been guided to reflect on the power and purpose of these experiences, graduate from the University as citizens who are not resigned to accepting the community as it is but have a vision for how they can help make the community better.

Students participating in the community service transformational experience are required to complete 300 hours of service. A mentor will guide each student through this WTE. While engaged in direct service, students will meet with a mentor and other students at least six (6) times per semester to reflect on their experiences. These meetings will help

students to develop a service focus complementing their interests and academic pursuits.

Each student will conclude the experience with a public presentation of his or her learning. This presentation can be done in a variety of venues from an on-campus forum to national or international conferences.

The International Education Transformational Experience

Director: Baili Zhang

Study Abroad Coordinator: Tina Williams

International Programs

785-670-1051

www.washburn.edu/wte (<http://www.washburn.edu/wte/>)

Purpose: Students who have studied abroad or been thoroughly exposed to the richness of history and culture beyond our shores graduate from the University ready to contribute to a fast-paced global society in which information is delivered instantly around the world.

The International Education WTE is most directly satisfied by a study abroad experience. Washburn University supports three types of study abroad programs:

Type 1: Study in a foreign institution with which Washburn maintains exchange agreements. Washburn University currently has exchange agreements with partner universities in such places as Austria, France, Germany, Mexico, Paraguay, Spain, and Sweden. In addition, Washburn belongs to the Magellan Exchange consortium, which provides additional opportunities in Austria, Belgium, Costa Rica, Finland, Denmark, The Netherlands, Serbia, and South Korea.

Type 2: Study in a program offered by a study abroad program provider, another accredited U.S. Institution or approved consortium/program.

Type 3: Participate in a study abroad program or internship coordinated and taught by Washburn faculty or for Washburn credit, in programs offered occasionally by some schools or departments (e.g.: School of Business, School of Law, School of Nursing, Departments of Art, Criminal Justice, Modern Languages, Political Science, and others). Mostly, these are short term programs (one to four weeks).

Besides these types, in some cases and under Washburn faculty supervision, students can also study abroad in other foreign institutions with which Washburn does not have an agreement. Other types of foreign study or experience (for example, involvement in a humanitarian project abroad) are considered as well.

To identify an appropriate experience, students will work with a faculty member or the study-abroad coordinator. Students who choose to complete their study abroad as an International Education –Washburn Transformational Experience will complete additional requirements. Students will declare their program as an International Education WTE, complete an Activity Plan, and write a Pre-Trip Background Research Paper on a relevant topic prior to their departure to help prepare for the experience. A post program Final Written Assessment Report and Public Presentation about experience is required within the semester after returning and prior to graduation. More information about the International Education WTE can be found at: www.washburn.edu/academics/wte/index.html (<http://www.washburn.edu/academics/wte/>).

Leadership Institute

Website: www.washburn.edu/leadership (<https://www.washburn.edu/leadership/>)

Director: Lauren Edelman, Ed.D.

Associate Director: Madeline Lambing, M.S.

Benton Hall, Room 408

(785) 670-2000

leadership@washburn.edu (leadership@washburn.edu)

Vision

Establish an innovative platform for leadership education that is recognized as a pioneering model for leadership development.

Mission

To further develop students into ethical and intentional leaders who value diversity and are prepared to immediately exercise effective leadership in today's changing society by cultivating the study of leadership and facilitating transformational learning experiences designed to challenge, motivate, and inspire.

Minor and Certificate Programs

The Leadership Studies Minor and Certificate are interdisciplinary programs open to students in all majors and degree programs. The Leadership Studies Minor and Certificate combine academic, co-curricular and community leadership experiences. The Leadership Studies Minor is designed to be completed concurrently while earning a baccalaureate degree. Students completing an associate degree or baccalaureate degree are able to earn a Leadership Studies Certificate. Leadership Studies Minor and Certificate requirements must be completed at the time of graduation. These programs provide graduates with the knowledge and skills necessary to be effective leaders in a variety of sectors and setting.

Student Learning Outcomes

Washburn graduates who complete the Leadership Studies Minor or Certificate will be able to:

- Critique and analyze the concept of leadership.
- Demonstrate understanding of the historical, psychological and social bases of leadership.
- Accept and appreciate the ethics and responsibilities of leadership.
- Recognize and demonstrate mastery of the skills and abilities necessary for effective leadership.
- Convert leadership theory into action.
- Observe and evaluate leadership in a variety of contexts.

Leadership Core Curriculum

The Leadership Studies Certificate requires 12 credit hours and the Leadership Studies Minor requires 18 credit hours of leadership curriculum. As cultivated at Washburn, leadership is broadly defined and inclusive in scope in order to expose students to many differing views of leadership. The Leadership Institute takes an integrative approach to the education, experience, and empowerment of personal leadership development. Three multidisciplinary leadership courses and one leadership internship experience constitute the core curriculum of the Leadership Studies Minor and Certificate. Each course has a

primary focus and emphasis, but all courses work toward the following interrelated goals:

- To foster the ability to think critically and analytically about leadership.
- To advance the understanding of the historical underpinnings of leadership.
- To advocate internalization of the ethical basis for leadership.
- To promote the development of leadership skills.
- To aid comprehension of the theoretical components of leadership.
- To enhance a self-reflective, self-assessing awareness of one's own leadership potential.
- To cultivate the ability to convert leadership theory into action.

Core Curriculum

Code	Title	Hours
LE 100	Exploring the Concept of Leadership ¹	3
LE 200	Ethical Responsibilities of Leadership	3
LE 300	Leadership Skills Development	3
LE 400	Leadership Internship	3
Total Hours		12

¹ Approved as social sciences general education credit

Additional Leadership Courses

LE 125 Foundations of Leadership in Society (1-3)

This course will expose students to a variety of concepts, theories and skills relevant to contemporary leadership thought. Students will be challenged to consider their personal conceptions and philosophy of leadership. Students will examine leadership within particular contexts such as creating change, ethical leadership, leadership and management, and historical leadership thought and leaders. Prerequisite: None.

LE 301 Leadership Skills Integration (0-3)

Students will integrate their learning from a leadership skills course from another department with the curriculum of the Leadership Institute. Outcomes include development of individual and interpersonal leadership skills, teamwork and collaboration skills, and an understanding that leadership is more than the exercise of power; techniques for embracing and leading change are practiced in a semester-long change project. Prerequisite: LE 200 or appropriate HN 201 section or consent; Corequisite: NU 450 or another departmental leadership skills course at a 300 level or higher.

LE 320 Leadership Campus Experience I (0-1)

Students will review a contemporary leadership theory as a framework with which to integrate their learning from a campus leadership position with an understanding that leadership is more than just a position. Students will begin to think critically about creating change in association with a campus leadership experience. Prerequisite: Consent of instructor or junior standing.

LE 321 Leadership Campus Experience II (0-1)

Students will participate in a campus leadership position and reflect on the experience to develop a greater awareness of self and how they contribute to the process of leadership. Prerequisite: Consent of instructor or junior standing and completion of LE 320.

LE 322 Leadership Campus Experience III (0-1)

Students will reflect on leading change through implementation of a change project. Within this course, students will reflect on their learning from their student involvement within the framework of leadership theories. Prerequisite: Consent of instructor or junior standing and completion of LE 320 and LE 321.

LE 350 Leadership Practicum Experience (3)

Students pursuing the Leadership Studies Certificate will practice a "change agent" leadership role by implementing and evaluating a change process, and produce a detailed record of the experience suitable for archiving. Prerequisite: LE 300 or consent of instructor.

LE 375 Gender and Leadership (3)

An examination of an analytic framework for understanding the role that gender plays in defining and determining access to leadership and power. Contains an analysis of the myths, challenges, and opportunities that accompany the issue of gender through an exploration of gender and leadership both conceptually and practically. Prerequisite: Consent of instructor or junior standing.

LE 398 Special Projects - Leadership (0-3)

Independent study or project in leadership. The same project may be repeated up to 3 credits. Prerequisite: Consent of instructor.

LE 399 Special Topics in Leadership (0-3)

Special topics in leadership. May be repeated for different topics. See course schedule for current offerings. Prerequisite: Consent of instructor or junior standing.

LE 401 Leadership Internship Integration (0-3)

Students integrate their learning from an internship from another department with the curriculum of the Leadership Institute. Students must practice a "change agent" leadership role within this internship. Within this course, students will reflect on their learning from the internship within the framework of the Leadership Institute curriculum. Prerequisite: Consent of Instructor. Corequisite: NU 462 or another departmental leadership internship course.

Leadership Studies Minor Requirements for the Minor

Students will complete at least 18 credit hours of coursework. In addition to 12 credit hours of required leadership core curriculum courses, students must complete at least 6 credit hours of elective courses from one of four thematic tracks. Some courses require completion of relevant departmental prerequisites.

Code	Title	Hours
LE 100/HN 202	Exploring the Concept of Leadership	3
LE 200/HN 201	Ethical Responsibilities of Leadership	3
LE 300	Leadership Skills Development	3
LE 400	Leadership Internship	3
Select 6 credits hours from one of the four thematic tracks		6
Total Hours		18

Elective Courses

Students must complete at least 6 credit hours from one of the four thematic tracks. At least 3 credit hours must be a level 300 course or higher. Elective courses which may count towards the minor include:

Leadership in Business, Communication, and the Media

Code	Title	Hours
BU 342	Organization & Management ¹	3
BU 343	Entrepreneurship, Creativity, and Innovation ¹	3
BU 345	Human Resources Management ¹	3
BU 346	Organizational Behavior ¹	3
BU 355	International Business ¹	3
CN 101	Introduction to Communication Studies	3
CN 150	Public Speaking	3
CN 302	Communication Theory	3
CN 308	Organizational Communication ¹	3
CN 330	Communication in Conflict and Negotiation ¹	3
CN 341	Persuasive Speaking ¹	3
CN 342	Communication-Teams and Groups ¹	3
CN 350	Persuasion	3
CN 351	Interpersonal Communication ¹	3
CN 363	Intercultural Communication ¹	3
CN 367	Crisis Communication ¹	3
CN 370	Communication Training & Development ¹	3
LE 125	Foundations of Leadership in Society	1-3
MM 360	Minorities & The Media ¹	3
MM 400	Media Literacy ¹	3
MM 411	Entrepreneurial Media ¹	3
MM 485	International Media Systems ¹	3
PH 313	Professional Ethics ¹	3

¹ Completion of prerequisite course(s) required prior to enrollment in course

Leadership in a Cultural Context

Code	Title	Hours
AN 112	Cultural Anthropology	3
AN 321	Anthropology of Women ¹	3
AN 324	History and Theory of Anthropology	3
BU 355	International Business ¹	3
BU 356	Cross-Cultural Management	3
CJ 303	Diversity in American Culture	3
CN 363	Intercultural Communication ¹	3
EN 110	Multicultural American Literature	3
EN 214	Women & Literature	3
HI 329	Civil Rights Movement ¹	3
HI 381	History & Psychology of Sex & Gender	3
HS 450	Multicultural Issues	3
LE 125	Foundations of Leadership in Society	1-3
LE 375	Gender and Leadership	3
MM 360	Minorities & The Media ¹	3
MM 485	International Media Systems ¹	3
PY 309	Theories of Personality	3
RG 102	World Religions	3
SO 100	Introduction to Sociology	3
SO 101	Social Problems	3
SO 207	Race and Ethnic Relations ¹	3

SO 310	Social Class in the U.S. ¹	3
SO 314	Organizations ¹	3
TA 381	Technology and Ecology	3
WG 375	Women and Popular Culture	3

¹ Completion of prerequisite course(s) required prior to enrollment in course

Leadership and Social Change

Code	Title	Hours
AN 336	Globalization ¹	3
BI 202	Biology of Behavior ¹	3
BI 203	Human Impact on the Environment	3
CN 361	Communication in Social Movements	3
CN 364	Gender Communication	3
HS 300	Prevention and Social Change	3
HS 325	Group Work (Group Counseling)	3
HS 355	Peacemaking	3
LE 125	Foundations of Leadership in Society	1-3
LE 320	Leadership Campus Experience I (3 credits total for elective)	1
LE 321	Leadership Campus Experience II (3 credits total for elective)	1
LE 322	Leadership Campus Experience III (3 credits total for elective)	1
LE 375	Gender and Leadership	3
MM 400	Media Literacy ¹	3
PH 102	Ethics: Introduction to Moral Problems	3
PH 104	Introduction to Logic and Critical Thinking	3
PH 211	Introduction to Ethical Theory ¹	3
PO 395	Non-Profit Management	3
PY 100	Basic Concepts in Psychology ¹	3
PY 310	Social Psychology	3
PY 325	Community Psychology ¹	3
SO 338	Strategies for Social Change ¹	3
SW 352	Micro Social Work Practice ¹	3

¹ Completion of prerequisite course(s) required prior to enrollment in course

Leadership in a Historical/Political Context

Code	Title	Hours
CN 309	Political Communication ¹	3
HI 102	Modern World History	3
HI 111	History of the United States through the Civil War	3
HI 112	History of the United States since the Civil War	3
HI 303	Colonial America to 1763 ¹	3
HI 305	Early National United States ¹	3
HI 315	Women in US History ¹	3
HI 317	Topeka & Urban American History ¹	3
HI 380	Women in World History ¹	3
LE 125	Foundations of Leadership in Society	1-3
MS 110	Fundamentals of Military Leadership	3

MS 432	Hitler, WWII, and Holocaust	3
PH 103	Introduction to Political Philosophy	3
PH 312	Social-Political Philosophy ¹	3
PO 106	The Government of the United States	3
PO 107	Kansas and the U.S., State and Local Government	3
PO 235	Governments of the World: Comparative Politics	3
PO 245	Introduction to Public Administration	3
PO 305	Public Policy	3
PO 337	Religions and Politics ¹	3

¹ Completion of prerequisite course(s) required prior to enrollment in course

Specialized Track Option

At the approval of the Leadership Institute Director, the elective track can be customized to an individual student's interests. To elect this specialized track option, a student must present a justifiable rationale to take one class from each of two separate tracks in order to satisfy the six hours of elective credits required. This rationale should be based on the student's individual career interests and academic plan. Furthermore, in unique circumstances based on a personalized opportunity, a student can include up to three independent study credit hours with their specialized track. Students electing this option would gain approval from their major department utilizing an independent study course number in that discipline.

Guidelines for the Minor

- 18 total credit hours (9 credit hours must be upper-division coursework). One elective must be upper-division level, in addition to LE 300 and LE 400.
- The Leadership Institute permits using "correlate" courses to satisfy the requirements of both a major and the Leadership Minor (e.g. a student with a Management major could include major course requirements from the College of Arts & Sciences, but cannot select Management courses from the list of Minor electives for the Leadership Minor). Further, Business electives for the Leadership Minor cannot also be used as Business electives within a Business major (this includes Economics and Accounting).
- LE 100 is a General Education course in the social sciences. This course may also be taken for Honors credit by registering for the course as HN 202. Please note HN 202 cannot be taken as A/P/F.
- LE 200 can also be taken for General Education and/or Honors credit by registering for the course as HN 201. HN 201 counts as general education credit in the humanities and fine arts. Please note HN 201 cannot be taken as A/P/F.

Leadership Partnerships

Given the interdisciplinary nature of Leadership Studies, the Leadership Institute recognizes the value in partnering with academic departments that focus on leadership development. These partnerships are approved in advance by both the School/Department and the Leadership Institute.

Current Partnerships

School of Nursing: Currently, the Leadership Institute partners with the School of Nursing. Nursing students can supplement NU 450 Leadership, Management, Health Policy (2 s.h.) and NU 462 Quality and Safety in Healthcare (3 s.h.) as substitutes for LE 300 Leadership

Skills Development (3 s.h.) and LE 400 Leadership Internship (3 s.h.); however, students opting to complete their Leadership Minor or Certificate in this way must enroll in LE 301 Leadership Skills Integration (3 s.h.) Leadership Skills Integration Course concurrently with NU 450 Leadership, Management, Health Policy (2 s.h.) to substitute for LE 300 Leadership Skills Development (3 s.h.), and LE 401 Leadership Internship Integration (3 s.h.) Leadership Internship Integration Course concurrently with NU 462 Quality and Safety in Healthcare (3 s.h.) to substitute for LE 400 Leadership Internship (3 s.h.). The content in LE 301 Leadership Skills Integration (3 s.h.) and LE 401 Leadership Internship Integration (3 s.h.) will integrate coursework in the departmental leadership course with the content covered in the Leadership Institute specific courses, LE 300 Leadership Skills Development (3 s.h.) and LE 400 Leadership Internship (3 s.h.).

Transferability of applicable course credit will be prescribed for each institution in WU's transfer guide, though ultimately is left at the discretion of each academic department. Transfer students will only be able to transfer a maximum of 6 credit hours toward completion of a Leadership Studies Minor.

Leadership Studies Certificate

The Leadership Studies Certificate is obtained by successfully completing 12 credit hours of leadership core curriculum.

Leadership Institute Contact Information

The Leadership Institute website www.washburn.edu/leadership (<http://www.washburn.edu/leadership/>) is a source for more information about the Leadership Institute, its activities and programs. Alternatively, you can contact the Leadership Institute at leadership@washburn.edu or 785-670-2000.

Learning in the Community (LINC): The Center for Community and Civic Engagement

Director: Richard B. Ellis, Ph.D.
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Mission

Consistent with the mission of the University, Learning in the Community (LinC): The Center for Community and Civic Engagement promotes opportunities for Washburn students, faculty, and staff to engage in meaningful curricular and co-curricular experiences that enhance academic learning while improving the community. Through ongoing interaction with students, LinC provides opportunities for learning, leadership and engagement that result in the development of productive and responsible citizens and professionals in their given discipline.

Learning Outcomes

Washburn students completing any of the community engagement activities offered through LinC will be able to:

- Demonstrate an understanding of the issues facing people in the community (SLO #5).

- Demonstrate an appreciation for the diverse composition of the community (SLO #5).
- Articulate the needs of the community encountered through their community engagement experience (SLO #1).

Washburn students completing any of the academic community engagement programs offered through LinC will be able to:

- Demonstrate the personal, professional and leadership skills necessary to address the needs of the population served (SLO #5).
- Demonstrate the ability to read critically and analyze academic information related to the issues confronted through their engagement experiences with the community (SLO #4).
- Demonstrate the ability to understand and think in an interdisciplinary way about the social issues related to inequality and communicate, both orally and in writing, this knowledge effectively (SLO #4).

Learning in the Community (LinC)

As the Center for Community and Civic Engagement at Washburn University, Learning in the Community (LinC) is the central unit responsible for developing, organizing, supporting, integrating, and assessing all community service and civic engagement activities.

To this end, LinC serves as the central unit for training, organizing, and educating community partners, community engaged students, and community engaged faculty to develop a cross cultural understanding for just community participation in a diverse local community and world. This is accomplished through programming, training, and leadership development that links academics and co-curricular experiences to build reciprocal relationships between community partners and the university.

LinC offers several programs for students. These include:

- **General Volunteer Opportunities:** LinC has partnerships with numerous community agencies who offer a variety of volunteer opportunities for students.
- **Alternative Break Program:** This program engages Washburn students in focused service away from campus over winter and spring academic breaks.
- **Community-Based Work Study:** Students who qualify for Federal Work Study funds have the option of earning this money by working with a nonprofit in the community.
- **Community Service Transformational Experience (CSTE):** The objective of the Community & Civic Engagement WTE is to graduate citizens who have a vision for how they can help make the community what it could be and not be resigned to accepting the community as it is. To achieve this, students engage with faculty, other students and the community in significant, meaningful engagement and are guided to reflect on the power and purpose of these experiences. Students participating in the Community & Civic Engagement WTE are required to complete 300 hours of combined community engagement and training and reflection with a community organization. Completion of the Community and Civic Engagement activities should not exceed three years.
- **International Service Experience:** Each year, LinC sponsors a two-week international trip where students, under the supervision of a faculty mentor, travel to a developing country to learn about the culture, history, and people of the country, and live with a family in a remote village for a week to engage in a service project with and for that community.

- **LinC Bonner Scholar Program:** This is a national community engagement leadership and university honor program that requires a significant service commitment, mentored reflection meetings three times per month, and participation in group initiatives and projects with other members of the program. Members of the program engage in service to effect social change and build the capacity of the organization they work with; become knowledgeable about the issues that affect the local, national and international community in which we live; and develop broad-based leadership skills through their service experience to support their development as actively engaged citizens. This is based on the premise that college students have a unique and important ability to contribute to society in meaningful, lasting ways. The program is also meant to create a supportive community of students on campus whose common focus on community service gives them a sense of purpose and meaning while connecting their service back to their academic and professional goals. Washburn is one of only 57 colleges and universities that form a network committed to the Bonner Foundation model of Community Engaged Learning. LinC provides opportunities for all members of the program to interact with other members in the network and to engage in service with national partners. Individuals who successfully complete the program receive the University honor of LinC Bonner Scholar, which is recognized upon graduation at the appropriate commencement.
- **Service Learning:** LinC provides assistance to faculty in developing projects to be included in their curriculum, introduction to service sites, and assistance in placement of students.
- **Community-Based Research:** LinC provides assistance to faculty in developing classroom research projects that assist communities and organizations with policy or program issues. The research is designed to be community driven and student directed with faculty support.

Civic Engagement Poverty Studies Minor

This minor provides students with the opportunity to understand and address the issues that emerge in their field as a result of poverty and inequality. Poverty is complex and as such, no single academic discipline can provide a holistic examination of the issue or solution for addressing the poverty that exists. It takes people from different backgrounds, with differing academic preparation, working together to bring a collaborative understanding of the issue and to make a real difference in the world in which they live. Therefore, this minor, by the nature of its focus, is interdisciplinary. This means that each student can have the experience of collaborating with peers who hold different pieces of the puzzle of how to effectively address poverty. The Civic Engagement Poverty Studies Minor requires 18 credit hours of coursework consisting of nine hours of required courses and nine hours of elective courses.

Learning Outcomes

- Washburn students completing any of the academic community engagement programs offered through LinC, including the Poverty Studies Minor and the CCWTE will be able to:
- Demonstrate the personal, professional and leadership skills necessary to address the needs of the population served (SLO #5).
- Demonstrate the ability to read critically and analyze academic information related to the issues confronted through their engagement experiences with the community (SLO #4).
- Demonstrate the ability to understand and think in an interdisciplinary way about the social issues related to inequality and communicate, both orally and in writing, this knowledge effectively (SLO #4).

Course Offerings

CE 250 Community Service Transformational Experience I - Associating (1)

Students enrolling in this course will complete 50 hours of community service with an approved organization or agency and will meet regularly to reflect on their community service with an approved organization or agency. The focus of the service, readings, and discussions in CSTE I is on the basic concept in civic engagement—associating. To be human is to live among and with others. Our natural habitat is society. This is where civic engagement begins, with a gathering of people, some joining together, for us to have any kind of community or society. Associating is the underlying condition of civically engaged activity—it is also the general form of civically engaged activity. At the heart of community service is the association or connection we develop with others. The readings, discussion, and writing for CE 250 CSTE I are chosen to help us think and talk about how, why, and with whom we associate through service (David & Lynn, 2006). Prerequisite: None.

CE 251 Introduction Poverty Studies (3)

This course examines poverty as a problem for individuals, families, and societies. It focuses on the United States, perhaps the most impoverished of any developed nation. Introduction to Civic Engagement-Poverty Studies is the first course in the Civic Engagement minor. This course emphasizes discussion intended to advance understanding and prompt critical analyses of the assigned readings. Prerequisites: None.

CE 350 Community Service Transformational Experience II - Serving and Giving (1)

Students enrolling in this course will complete 50 hours of community service with an approved organization or agency and will meet regularly to reflect on their service. The focus of the service, readings and discussions in CSTE II are based on two concepts of civic engagement – serving and giving. Service, including public or community service, has the unusual feature of serving at least two different ends: service expressly benefits those served but at the same time benefits the servant as well (Davis & Lynn, 2006). For the first half of this section the readings and discussion will consider both kinds of benefits—the benefits to the server and those served. The focus of the second half of this section will look at the experience of giving. Very often we give gifts that fill us with joy and other times we have given gifts that lead us to resentment and regret (Davis & Lynn, 2006). Much of the time the act of giving and receiving leads us to question the act itself. "Should I have given that man on the street that dollar?" (Davis & Lynn, 2006). The readings and discussion in this section will explore the motives of the human experience of giving. Prerequisite: CE 250 or consent.

CE 351 Community Service Transformational Experience III - Leading (1)

Students enrolling in this course will complete 50 hours of community service with an approved organization or agency and will meet regularly to reflect on their service. Leadership, in most cases, is not something one learns or even prepares for—more often it sneaks up on you. One day you find yourself in charge, creating the experience of others, for better or worse. You look up one day and you are a teacher, a coach, a program director. You may have stepped up because of an event in your community, organized a group in response to that issue and now you are in charge. What do you do? How do you lead? (Davis & Lynn, 2006). The readings in this section do not answer these questions, but rather through discussion may help ease the burden and improve the leadership experience. Prerequisite: CE 350 or consent.

CE 391 Social Change and Political Activism (3)

This course is designed to familiarize students with mobilizing and development of issue campaigns. The content of the course will focus on an understanding of social action, change and advocacy. Organizing a campaign refers to a particular form of community participation in which "grassroots" people learn techniques to share in power. This implies that the model will focus on recruiting grassroots membership and targeting systems for change. The methods may include collaborative problem solving, strategic planning and confrontation. Targets for change may be individuals, systems, institutions, and policies.

CE 400 Civic Engagement Practicum (3)

Students enrolling in this course will complete 300 hours of community-based service over the course of one year. Students will participate in a monthly seminar to reflect on the issues facing the community while exploring solutions to identified problems. This course can be taken as an alternative to the three one credit hour Community Service Transformational Experience Seminars (CE 250, CE 350 and CE 351). Prerequisite: CE 251

CE 401 Civic Engagement - Poverty Studies Capstone (3)

The Civic Engagement-Poverty Studies Capstone will involve students in Community Based Research (CBR) to solve problems of various community organizations. Students will come from different majors and will play a role in selecting the topics for focus through negotiation with Community Partners. They will share perspectives of their major disciplines as well as their varied experiences in the field thus ensuring the interdisciplinary nature of the inquiry. Students will engage in various ways with poverty-related programs, communities, and experts to address research needs identified by Center affiliated Community Partners. Students will produce a final research paper and will be expected to present their research in a public venue such as a conference, Apeiron or the WTE Day of Transformation. Prerequisites: CE 250 and CE 251, CE 350, CE 351, or CE 250 and CE 400, or Approved Practicum experience or instructor consent.

Electives (9 credits)

Students must choose at least three of the following course options with no more than two courses in the same discipline. However, the student will choose the courses based on a focus area. This list is not to be considered exclusive in any way; students who wish to include other courses they feel may be appropriate toward the minor can propose the inclusion of such courses to the faculty and staff of LinC for consideration. The student must include not only the course title but also a written rationale of how he or she sees the course fitting with the overall goal of the Civic Engagement Poverty Studies Minor. New courses developed or identified in any discipline that would be related to the topic of the minor may be added as well.

Code	Title	Hours
AL 375	Health Care Policy	3
BI 203	Human Impact on the Environment ¹	3
CN 330	Communication in Conflict and Negotiation	3
CN 341	Persuasive Speaking ¹	3
CN 351	Interpersonal Communication	3
CN 361	Communication in Social Movements	3
CN 369	Critical Studies	3
EC 100	Introduction to Economics ¹	3
EC 200	Principles of Microeconomics ¹	3
EC 201	Principles of Macroeconomics ¹	3
EC 341	Labor Economics	3

EN 110	Multicultural American Literature ¹	3
GG 151	Urban Geography	3
HL 377	Critical Issues in Health	3
HI 329	Civil Rights Movement	3
HI 363	Borderlands and Beyond	3
HS 300	Prevention and Social Change	3
PH 102	Ethics: Introduction to Moral Problems ¹	3
PO 107	Kansas and the U.S., State and Local Government ¹	3
PO 305	Public Policy	3
PY 325	Community Psychology	3
SO 101	Social Problems ¹	3
SO 323	The City and Urban Life	3
SO 207	Race and Ethnic Relations	3
SO 310	Social Class in the U.S.	3
SO 323	The City and Urban Life	3
SO 338	Strategies for Social Change	3
SW 350	Social Policy and Programs	3
SW 390	Contemporary Issues in Social Work	1-3

¹ Approved for General Education

Students may not use required major courses to fulfill requirements of the minor.

Community Engaged Learning

Consistent with the Vision 2022 statement Learning in the Community functions as the lead unit for the enhancement of Community Engaged Learning. Together with the Center for Teaching Excellence and Learning (C-TEL), LinC provides the connections between community organizations and faculty to initiate the Community Engaged Learning interactions. Community Engaged Learning projects are any student centered, interactive, experiential educational endeavors, either curricular or co-curricular, that are clearly community focused and action based. The purpose is to move from an observer of the conditions that exist in our society to intellectual awareness and informed action.

Community Engaged Learning (CEL) is a project that:

- Is designed to encourage students to reflect on their connections and commitments to the community in which they live (local, national, global).
- Brings campus partners (faculty, staff, students) and community partners together to address specific issues, problems or concerns.
- Is created and designed through collaboration of campus partners and community partners.
- Encourages students to integrate academic and practical knowledge.
- Involves structured and guided reflection by students on the meaning and broader implications of the CEL project/activity.
- Is designed to benefit students through learning and community partners through capacity building of the organization.
- Is designed and carried out with explicit, clearly articulated Learning Outcomes which are assessed.

Learning Outcomes for Students Participating in Community Engaged Learning

It is suggested that at least one of the following outcomes be included in the development of a CEL activity/course. Upon completion of a CEL project or activity students will:

- Connect and extend knowledge (facts, theories etc.) from their own academic study/field/discipline to civic engagement.
- Demonstrate evidence of adjustment in their own attitudes and beliefs as a result of working within and learning from a diversity of communities and cultures.
- Articulate a clarified sense of civic identity.
- Demonstrate abilities in self-awareness and self-reflection.
- Show evidence of initiative and team leadership.
- Tailor communication strategies to effectively express, listen, and adapt to others to establish relationships.
- Articulate the value of public action.
- Demonstrate ability and commitment to collaboratively work across and within community context and structures to achieve a civic aim.

Office of International Programs

Website: www.washburn.edu/iip (<http://www.washburn.edu/iip/>)

Baili Zhang, Director
 Kelly McClendon, Coordinator and Lecturer, Intensive English Program
 Michala Stokes, International Student Advisor
 Heidi Staerke, Coordinator, International Student Services
 Tina Williams, Coordinator, Study Abroad
 Dr. Andy Vogel, Coordinator, International Student Recruitment/Retention

Mission

Consistent with Washburn University's Vision, Mission, and core values, the Office of International Programs (OIP) leads and coordinates the institution's effort to provide a level of global competence commensurate with the needs of students, faculty, and staff. Through International Students Services, Study Abroad, Intensive English, and other programs and initiatives, the OIP serves as the resource and support center for all international endeavors to promote global understanding within the university learning community and beyond.

The Office

The Office of International Programs is located in the International House, directly west of Memorial Union. Services coordinated by the director and staff include oversight of the International Washburn Transformational Experience, international student advising, assistance with study abroad, assistance to faculty and administrative officials who wish to present papers or do short-term projects abroad, assistance to international students, hosting of international guests to campus, development and maintenance of relationships with foreign universities and international programming on campus. The director also serves as university liaison to the International Center of Topeka, Inc., a community group of about fifty members interested and involved in international issues.

Study Abroad

Program Mission

The mission of Study Abroad is to provide Washburn University students with education opportunities that combine academic rigor with experiential and cultural learning through immersion in international

destinations. We are committed to advising students and faculty on international education opportunities and maintaining collaborations with international partner universities and study abroad program providers.

Types of Study Abroad Programs

Washburn University supports three types of study abroad programs. For more information regarding these programs refer to the International Education Transformational Experience at the beginning of this catalog section.

Whatever type of program is chosen, participants must complete the Study Abroad Program Application process for approval. Students may also complete a Study Abroad Scholarship Application. The applications are available online at: [https:// washburn.studioabroad.com](https://washburn.studioabroad.com). The Department of Modern Languages reviews Study Abroad Program and Modern Languages Scholarship Applications for students who have declared Foreign Language as their major or minor.

Scholarships and Financial Aid for Study Abroad

The Office of International Programs Scholarship Committee recommends scholarships from designated endowments and WTE funds for qualified students who wish to study abroad to fulfill the WTE opportunity and other purposes. To be eligible for a scholarship a student must be a currently enrolled degree seeking student at WU and have completed a minimum of 12 hours at WU with a minimum C average. (Extenuating circumstances may be considered - check with the Study Abroad Coordinator.) Students may also apply most other types of financial aid, including student loans, toward the cost of their study abroad programs.

Transfer of Academic Credit Earned at Foreign Institutions

Students participating in credit bearing study abroad programs are required to complete a Study Abroad Credit Transfer Form with the Study Abroad Coordinator prior to beginning their program. This form confirms that the student consulted with his/her academic advisor and that the academic advisor approves the proposed program of study.

This also serves as a guarantee to the student that his/her credits will be transferred to his/her Washburn transcript upon successful completion of the program. A letter grade will only be posted if the course is required for the student's major or minor academic program. All other course work is posted as credit. All attempted coursework abroad will be reflected on the Washburn transcript, including failing grades. However, students will not earn credit for failed courses.

Study Abroad Programs

Washburn has study abroad exchange programs in France, Germany, Mexico, Paraguay, Spain, and Sweden. In addition, Washburn belongs to the Magellan Exchange consortium, which provides additional opportunities in Austria, Belgium, Costa Rica, Denmark, The Netherlands, Serbia, and South Korea. Washburn Faculty also develop and offer short term study abroad programs in a variety of locations each year. Programs in many other countries can also be arranged through study abroad program providers, other US schools and consortiums.

Study Abroad Courses

Students who are planning to participate in an approved program in which they intend to transfer foreign credit will enroll in the appropriate Interdisciplinary Studies course(s) after consultation with the Study Abroad Coordinator.

Courses require instructor's consent.

IS 201 Study Abroad (0-18)

Approved study abroad program coordinated by the Office of International Programs.

IS 203 Study Abroad (1-18)

Approved study abroad program coordinated by the Office of International Programs.

IS 301 Study Abroad (0-18)

Approved study abroad program coordinated by the Office of International Programs.

IS 303 Study Abroad (1-22)

Approved study abroad program coordinated by the Office of International Programs.

IS 221 Study Abroad External Program (0-18)

Approved external (non-Washburn) study abroad program coordinated by the Office of International Programs.

IS 321 Study Abroad-US Host University (0-18)

Approved study abroad program hosted by another U.S. institution coordinated by the Office of International Programs. Prerequisite: Consent of Instructor.

IS 420 Study Abroad Internal Program (1-18)

Approved senior- or graduate-level study abroad programs coordinated by the Office of International Programs.

IS 421 Study Abroad External Program (0-18)

Approved study abroad programs for senior- or graduate-level hosted by another US institution.

Intensive English Program

Website: www.washburn.edu/iip (<http://www.washburn.edu/iip/>)

Program Mission

The mission of the Intensive English Program (IEP) is to offer leveled English language courses to prepare non-native English speakers, including international students, for success in degree programs at the university and other academic and community settings. The IEP is committed to facilitating cross-cultural understanding and supporting the university's values of academic excellence and inclusion.

Washburn University Assessment – Program Student Learning Outcomes

Upon completion of the IEP, students will be able to:

- PSLO 1: write short essays, present short academic speeches, and participate in social conversations with minimal grammar errors after applying linguistic knowledge and using strategies to find and correct their own errors.
- PSLO 2: read at 180 words per minute with 80% comprehension in order to succeed in courses with required college-level (low-advanced) reading.
- PSLO 3: take relevant and organized notes from short lectures and deliver a college-level speech and presentation with clear points, organization, and proper citations.
- PSLO 4: write a college level paper organized in the American style of discourse and academic vocabulary with some research and proper citations included.
- PSLO 5: degree-seeking students will be able to identify resources on campus for success in the college classroom, self-reflect on study

skills needed for the college classroom, increase communicative competence in English through authentic language practice, increase their comfort level of working on a multicultural team, and present about reflections on cultural adjustment lessons learned.

Curriculum

Three levels (I, II, and III) in each of three areas are available spring and fall semester: Reading Comprehension, Speaking and Understanding, and Writing, which also has an additional course offered for graduate level students. A fourth area in cultural experience (IE 091 Language in Context Seminar I/IE 092 Language in Context Seminar II) is offered to all full time Intensive English students. Two additional courses (IE 070 Intensive English-Acad Purp I and IE 100 Intensive English-Acad Purp II) offered are not part of the required levels in the program but may be offered as special topics or for short-term exchange/visiting students. The core classes follow the University schedule and meet five hours per week in class each semester (15-16 weeks). A full-time student typically takes four courses and receives 18 hours of classroom instruction for 12 - 13 credit hours.

Students can utilize all university academic support services and the ESL Class sponsored by the ICT, which may be one-on-one or small group instruction provided by or associated with the University. These services are free of charge to the students. In addition, students have full access to other University services and facilities, such as the health center, computer labs, libraries, and athletic events/facilities, free of charge.

Credit

Students receive academic credit for all courses taken in the IEP. However, only the 200-level courses can be applied toward degree programs as general electives (for non-native speaking students). Please note: International students who receive funding from their governments may not be able to apply the IEP courses toward their degree. Please check with the program coordinator ahead of time about this stipulation.

Admission

Prospective students are encouraged to contact the program coordinator before enrolling. The TOEFL (Test of English as a Foreign Language) is not required for admission to the IEP. However, a placement test is required in order to evaluate proper placement in the IEP courses. Testing options include IELTS, Duolingo English Test, PTE, and more. After completing the IEP, students can enter University degree programs without a TOEFL score if that program does not require a specific score above the undergraduate Washburn University English proficiency requirements. Those who need only part-time enrollment in the IEP can take for-credit academic courses concurrently with the approval of the IEP.

Course Offerings

Cultural Context

IE 091 Language in Context Seminar I (2 s.h.)

IE 092 Language in Context Seminar II (2 s.h.)

These two different courses give international students unique opportunities to experience language in local cultural contexts and challenge their application of the English language. Students will go on field trips and hear guest speakers from diverse backgrounds on relevant topics to the international student. Students will be required to complete a project and write a journal with reflections on their experiences. IE 091 Language in Context Seminar I is offered in the fall and IE 092 Language in Context Seminar II is offered in the spring. These courses meet for one-three hours per week but do not count toward the 120 hour baccalaureate

degree requirement. Fulltime Intensive English students are required to enroll in these courses. *No prerequisite. Repeatable.*

Reading Comprehension

IE 072 Reading Comprehension for Academic Purposes I (4 s.h.)

IE 102 Reading Comprehension for Academic Purposes II (4 s.h.)
Prerequisites: IE 072, or equivalent English proficiency test scores, or IEP coordinator permission.

These courses develop nonnative English speakers' vocabulary and reading skills for personal and academic communication using materials with diverse topics. By reading books, articles and sample academic texts, nonnative English speakers in this course study and practice effective reading and investigating strategies to discover the ways ideas are expressed and put into writing. Besides building academic vocabulary, the goals are increased reading fluency, speed and understanding.

Speaking and Understanding

IE 073 Speaking and Understanding for Academic Purposes I (4 s.h.)

IE 103 Speaking and Understanding for Academic Purposes II (4 s.h.)
Prerequisites: IE 073, or equivalent English proficiency test scores, or IEP coordinator permission.

Nonnative English speaking students practice to improve their oral and aural skills. They prepare to participate in everyday social conversations, classroom interactions, listening effectively to lectures and being involved in basic discussions. Students are expected to prepare and give short speeches and will be tested weekly on a list of idiomatic expressions.

IE 203 Speaking and Understanding for Academic Purposes III (4 s.h.)
Prerequisites: IE 103, or equivalent English proficiency test scores, or IEP coordinator permission.

This course focuses specifically on the skills needed for presentations, the basic organization of American communication, and idiomatic expressions that prepare the student for the American academic and professional environment. Cannot be taken concurrently with CN 150 Public Speaking.

Academic Writing

IE 074 Writing for Academic Purposes I (4 s.h.)

IE 104 Writing for Academic Purposes II (4 s.h.) Prerequisites: IE 074, or equivalent English proficiency test scores, or IEP coordinator permission.

These courses for nonnative English speakers focus on foundational writing skills from sentence structure to well-organized paragraphs of various kinds. Besides analyzing audience and purpose, basic citation and research skills are covered.

IE 204 Writing for Academic Purposes III (4 s.h.)

IE 294 Writing for Academic Purposes III (GR only) (3 s.h.)

Expressing ideas in writing for the American academic and business reader is the goal in these courses for nonnative English speakers. Students will learn the conventions of expository paragraphs, essays and investigative reports. Summary, analysis, citation and research skill practice are included. Neither IE 204 Writing for Academic Purposes III nor IE 294 Writing for Academic Purposes III (GR only) can be taken concurrently with EN 101 First Year Writing or EN 300 Advanced College Writing.

IE 295 Special Topics: Enhancing Skills for Graduate Studies (3 s.h.)

This course for non-native English speakers only will orient students who haven't completed an undergraduate degree in the US to the style and rigor specified by individual graduate programs. Typically this will involve specific instruction to help students improve research, presentation, group work, and higher level academic writing skills that are required by graduate programs. Topics and targeted programs will be announced in advance. *Prerequisites:* IE 202 Reading Comprehension for Academic Purposes III (4 s.h.) and IE 204 Writing for Academic Purposes III (4 s.h.), or equivalent iBT TOEFL, IELTS scores or instructor permission.

Combined Skills Courses**IE 070 Intensive English-Acad Purp I (3 s.h.)**

IE 100 Intensive English-Acad Purp II (1-3 s.h.) These are combined skills courses centered around U.S. cultural themes. They are considered special topic courses as the needs of the students taking them are considered when designating the specific outcomes of English language learning and cultural competence. They may be offered as short-term courses for exchange/visiting students for English language skills improvement within a U.S. cultural experience.

International Student Services

785-670-1051

Heidi Staerckel, Coordinator, International Student Services
Andy Vogel, Coordinator, International Student Recruitment/Retention

Undergraduate Admission

A complete application includes the following:

1. A completed on-line Washburn University International Application Form (<https://washburn.elluciancrmrecruit.com/international/pages/welcome.aspx>).
2. \$70 (USD) non-refundable application fee.
3. Recent (within two years) iBT TOEFL, IELTS or DuoLingo English Test (DET) score report. Go to English Proficiency Requirements for more details. Applicants with low iBT TOEFL/ IELTS/DET scores can be admitted into the Intensive English Program first. For students from non-English speaking countries, a minimum iBT TOEFL score of 72 (18 average of Listening and Speaking scores, 17 for Reading and 19 for Writing) or 6.0 or higher on each subtest on the IELTS with a 6.0 average of Listening and Speaking. Please note that certain departments may have higher TOEFL/IELTS requirements. Students who cannot meet this requirement will be admitted conditionally through the Intensive English Program.
4. Completed Financial Disclaimer form (<https://www.washburn.edu/academics/international-programs/international-students/financial-disclaimer-form.pdf>) and original financial supporting documentation of the student's/sponsor's ability to finance studies while in the U.S.
5. Official transcripts of completed secondary education and of any university-level course work. University-level course work must be evaluated by either Educational Credential Evaluators (ECE) or World Education Services (WES). The grades of university-level international courses will be listed on the Washburn University transcript as CR (grade of A,B, or C), P (grade of D), or NC (grade of F) and the grade point average earned in international college course transfer work will not be calculated in the cumulative GPA at Washburn University.

Note: Refer to University Requirements Common to all Associate and Bachelor Degrees for further information.

International Transfer Student Admission (from another U.S. school to Washburn)

A completed application includes the following:

1. A completed on-line Washburn University International Application Form (<https://washburn.elluciancrmrecruit.com/international/pages/welcome.aspx>).
2. A completed Washburn University Transfer Eligibility Form (<https://www.washburn.edu/academics/international-programs/international-students/transfer%20eligibility%20form/>), completed by the applicant and an international student advisor at the current school.
3. A copy (pages 1 and 2) of the student's current I-20 form or DS-2019 (page 1).
4. A copy of the student's current visa, and passport ID page.
5. \$70 (USD) non-refundable application fee.
6. For full academic admission, proof of English proficiency. Go to English Proficiency Requirements (<https://www.washburn.edu/academics/international-programs/international-students/english-proficiency-requirement.html>) for more details. Note: Applicants who are not able to meet this requirement can be admitted into the Intensive English Program first. Completed Financial Disclaimer form (<https://www.washburn.edu/academics/international-programs/international-students/financial-disclaimer-form.pdf>) and original financial supporting documentation of the student's/sponsor's ability to finance studies while in the U.S.
7. Official transcripts of all university-level work, sent to Washburn University directly by the issuing school/language program.

Intensive English (ESL/IE) Program Admission

For F-1 Visa students, a complete application includes the following:

1. A completed on-line Washburn University International Application Form (<https://washburn.elluciancrmrecruit.com/international/pages/welcome.aspx>).
2. \$70 (USD) non-refundable application fee.
3. Completed Financial Disclaimer form (<https://www.washburn.edu/academics/international-programs/international-students/financial-disclaimer-form.pdf>) and original financial supporting documentation of the student's/sponsor's ability to finance studies while in the U.S.
4. Official English test score (such as iBT TOEFL, IELTS or DuoLingo) for IE course placement.

Transcript Requirement

Applicants must provide original transcripts which should have detailed addresses of the issuing schools for verification. If originals cannot be submitted, attested certified copies of transcripts must be sent to Washburn by the issuing school on the school's official envelope and stationery.

All university-level foreign transcripts must be evaluated by ECE or WES. Application forms can be obtained by going online to www.ece.org (<http://www.ece.org>) or www.wes.org. A "course-by-course" report is required and must be submitted by the evaluation service to Washburn University directly.

English Proficiency Requirement for Undergraduate Studies

Students whose native language is not English must meet Washburn's English proficiency requirement. Please visit this website for more information.

Please note: Students who cannot meet the above guidelines will be placed in the Intensive English classes by the staff of the program based on their test scores, transcripts, and other evidence. They must enroll in and successfully complete the required IE courses as early as possible.

Transfer students must also fulfill the English Proficiency Requirement by TOEFL, IELTS, Duolingo, or other ways to have a voice in, and change, Honors and the University as a whole. They must enroll in and successfully complete the required IE courses as early as possible if deficiency is determined.

Full-time students in the IEP (Level I or II) are not eligible to take other academic courses. Students in Level III or needing only part-time enrollment in IEP can take other academic courses with IEP approval only.

For graduate program applicants, please refer to the academic department for the English proficiency requirement, as this varies by graduate program.

International Student Advisors

International student advisors are involved in the preliminary acceptance of international students, aid the students in preparation of their academic programs, counsel them regarding how to maintain their visa status, and maintain contact with them during their academic careers.

Call 785-670-1051 or email international@washburn.edu for more information.

University Honors Program

Dr. Kerry Wynn, Director
honors@washburn.edu (honors@washburn.edu)

The mission of the Honors Program at Washburn University is to provide highly motivated and academically talented students with enriched educational experiences in and out of the classroom, enabling and empowering them to realize their full potential as critical thinkers, informed global citizens, and agents of change. Toward this end, the program provides curricular and co-curricular experiences supporting, promoting, and rewarding excellence in academic rigor, research and scholarship, leadership, and service learning.

Student Learning Outcomes

Upon successful completion of the Washburn University Honors Program, students will be able to:

- Analyze their own and others' assumptions and carefully evaluate the relevance of contexts when presenting a position.
- Interpret intercultural experience from the perspectives of their own and more than one worldview and demonstrate the ability to act in a supportive manner that recognizes the beliefs of another cultural group.
- Identify service opportunities in their community and make decisions and implement actions that address the needs of the community.
- Design, conduct, and actively pursue independent educational experiences.

In pursuit of its mission, the University Honors Program provides many benefits for students including the following:

- Special sections of existing courses.
- Unique and engaging Honors courses that also satisfy general education requirements.
- Independent research opportunities, and other creative scholarly projects.
- Closer working relationships with distinguished faculty.
- Individual and Honors specific advising.
- Trademark events that include guest speakers, community engagements, and more.

Honors fits well with Washburn's many four-year degree programs and the tiered system allows students to pursue honors with varying degrees of involvement and receive recognition. Students work directly with the Honors Dean to identify opportunities to explore, relate, and assimilate many diverse learning experiences. As Linus Pauling said, "The best way to have a good idea is to have lots of ideas." The University Honors Program is committed to providing students, faculty, and staff with opportunities to develop and implement good ideas.

University Honors Tiers and Involvement Requirements

"Honors Associate" – 12 Credit Hours of Honors Credit

"Honors Scholar" – 18 Credit Hours of Honors Credit

"Honors Graduate" – 24 Credit Hours of Honors Credit

Regardless of tier, students will be expected to complete an Honors Thesis Project (or similar scholarly/creative project, e.g., scholarly/creative WTE). In addition to curricular requirements, students may receive recognition for involvement (service) in honors and the community.

Involvement Requirements

"With Distinction in Service" = 50 Hours of involvement with at least 35 hours in Honors-related events.

"With High Distinction in Service" = 100 Hours of involvement with at least 75 hours in Honors-related events.

Each curricular tier can be combined with any level of involvement (e.g., University Honors Graduate with High Distinction in Service).

Admission Criteria

Entering freshman students with an unweighted high school GPA of 3.5 or higher and/or an ACT of 28 or higher are especially encouraged to inquire about the University Honors Program by submitting a completed application (found on the University Honors website). Individuals may apply on their own initiative, be recommended to apply by their high school or college faculty, or be invited to apply by the Director of University Honors. Students who meet the minimum criteria and successfully complete the application process (application materials can be found online at www.washburn.edu/honors (<http://www.washburn.edu/honors/>)) will be invited to join the community of exceptional learners and thinkers.

Although proven scholastic performance is important, the Honors Dean will place substantial emphasis on students' ability to benefit from and

contribute to the program. Once admitted into the program, students who complete requirements associated with a given tier (listed above) will have their transcripts listing the completed tier and involvement if completed. Washburn is an institutional member of the National Collegiate Honors Council and an institutional member of the regional Great Plains Honors Council.

Course Offerings

EN 102 Freshman English Honors (3)

The analysis of texts that purport to gather facts, to structure experience into pleasing formal structures, to persuade others to action, judgment, or evaluation, and to articulate principles whose power shapes diverse experiences into meaningful patterns of coherence. The writing of expository prose that communicates thoughtfully and clearly the results of those analyses. Open to those students accepted into the University Honors Program and by invitation from the Composition staff.

HN 101 Honors First Year Experience (3)

HN101 is a three credit hour course, designed for first-year honors students (incoming honors freshmen) providing students with a common first-semester experience. The course will substitute for WU101 thereby fulfilling this university-wide requirement. Like WU 101, course content will focus upon information literacy, technology, and the transition into the Washburn University Community of Learning in addition to exposure to co-curricular activities (a.k.a., passport activities). Common themes such as the exploration of writing, study skills, research, wellness, technology, plagiarism, and others will be covered to introduce students to a series of best practices for success. HN 101 differs from WU 101 in general in that additional topics will be explored and some shared topics with WU 101 (e.g., writing) be emphasized more. For example, students will learn more about conducting research through instruction and by conducting a group research project, complete a service learning project, and actively participate in seminar-style discussions covering assigned readings. Prerequisite: Accepted into Honors program.

(Information Literacy and Tech.)

HN 201 Seminar Humanities Fine Arts (3)

An integrated humanities topics course that takes some special problem, theme, or subject matter and explores it from a humanistic perspective. Topics vary from semester to semester. Satisfies three hours of general education credit in the humanities and fine arts. May be taken more than once with different topics.

(General Ed Humanities. Critical and Creative Thinking.)

HN 202 Seminar in the Social Sciences (3)

An integrated social sciences topics course that takes some special problem, theme, or subject matter and explores it from the perspective of the social sciences. Topics vary from semester to semester. Satisfies three hours of general education credit in the social sciences. May be taken more than once with different topics.

(General Ed Social Science. Critical and Creative Thinking.)

HN 203 Seminar Physical Science & Mathematics (3)

A special topics course that takes some special problem or subject matter and explores that subject matter or problem from the perspective of the natural sciences or mathematics. Topics vary from semester to semester. Satisfies three hours of general education credit in the natural sciences and mathematics. May be taken more than once with different topics.

(General Ed Natural Science. Critical and Creative Thinking.)

HN 301 Seminar Humanities Fine Arts (3)

An integrated humanities topics course that takes some special problem, theme, or subject matter and explores it from a humanistic or fine arts perspective. Topics vary from semester to semester. May be taken more than once with different topics. Prerequisites: Sophomore Standing.

(General Ed Humanities. Critical and Creative Thinking.)

HN 302 Seminar in the Social Sciences (3)

An integrated social sciences topics course that takes some special problem, theme, or subject matter and explores it from the perspective of the social sciences. Topics vary from semester to semester. May be taken more than once with different topics. Prerequisite: Sophomore standing.

(General Ed Social Science. Critical and Creative Thinking.)

HN 303 Seminar Natural Sciences & Mathematics (3)

A special topics course that takes some special problem or subject matter and explores from the perspective of the natural sciences or mathematics. Topics vary from semester to semester. May be taken more than once with different topics. Prerequisites: Sophomore Standing.

(General Ed Natural Science. Critical and Creative Thinking.)

HN 305 Colloquium Liberal Arts Professional Disciplines (3)

A special topics course that involves the study of the relationship of the professional disciplines – for example, law, education, business, public planning and administration, social work or other applied studies, the health professions – to the liberal arts, or one of the liberal arts – for example, history, poetry, rhetoric, or philosophy.

HN 392 Directed Readings (1-3)

A special topics course designed to allow students and faculty the opportunity to explore and develop areas of study as a foundation for thesis work.

HN 399 Honors Thesis (1-6)

Independent research in a specified area approve by the Dean of University Honors.

Interdisciplinary Academic Programs

- Interdisciplinary Studies (p. 38)
- African American and African Diaspora Studies, Minor (p. 40)
- Game Design (p. 41)
- Gerontology, Minor (p. 41)
- Information Literacy Studies, Minor (p. 41)
- International Business, Minor (p. 43)
- International Studies, Minor (p. 43)
- Kansas Studies, Minor (p. 43)
- Latin American, Caribbean, and Latino/a Studies, Minor (p. 44)
- Museum and Curatorial Studies, Minor (p. 44)
- Peace, Justice, And Conflict Resolution Studies, Minor (p. 45)
- Women's and Gender Studies, Minor (p. 46)
- Reserve Officer Training Corps (p. 47)
- Pre-Professional Studies (p. 49)

Interdisciplinary Studies

Interdisciplinary courses have content derived from various academic disciplines. Courses may be taught by a single faculty member proficient in the course content or jointly by two or more faculty members from different segments or areas. The interdisciplinary program is administered by a faculty committee chaired by the Associate Vice President for Academic Affairs.

Course Offerings

IS 110 Special Topics (0-6)

Special topics in interdisciplinary studies announced in advance. May be repeated with different topics. Prerequisite: Consent of Instructor

IS 201 Study Abroad (0-18)

Approved study abroad program coordinated by the Office of International Programs.

IS 203 Study Abroad (1-18)

Approved study abroad program coordinated by the Office of International Programs.

IS 221 Study Abroad External Program (0-18)

Approved external (non-Washburn) study abroad program coordinated by the Office of International Programs.

IS 270 Grant Writing I (3)

This internship course is designed to provide pre-professional work experience, in a sponsored projects office, to facilitate professional development and career exploration in grant writing and grant proposal development in response to either a private or a public opportunity. Prerequisite: None.

IS 300 Mock Trial II (1)

Enrollment is open only to students selected to the Mock Trial Team.

IS 301 Study Abroad (0-18)

Approved study abroad program coordinated by the Office of International Programs.

IS 303 Study Abroad (1-22)

Approved study abroad program coordinated by the Office of International Programs.

IS 321 Study Abroad-US Host University (0-18)

Approved study abroad program hosted by another U.S. institution coordinated by the Office of International Programs. Prerequisite: Consent of Instructor.

IS 389 Integrated Studies Capstone Proposal (1)

This course is the prerequisite course to the IS 390 Capstone Project course and must be taken the semester immediately preceding IS 390 or special permission by the BIS Director. This course is designed to assist the student in developing an appropriate capstone project. Prerequisite: At least thirty completed hours from either the Individualized Study Plan (ISP) or the Multi-Disciplinary Study Plan (MDSP) or special permission by the BIS Director.

IS 390 Integrated Studies Capstone (1-7)

The thoughtful integration of diverse materials is a major demand on the student working toward a Bachelor of Integrated Studies. The format may vary in terms of the student's special interests, abilities, imagination, and creativity. May consist of a research paper, a comprehensive written examination on selected reading materials, an oral presentation, or a special performance utilizing one or more art forms or modes of expression. Prerequisite: IS 389 or by consent of the BIS Director.

IS 400 Special Topics (0-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: Consent of instructors.

IS 420 Study Abroad Internal Program (1-18)

Approved senior- or graduate-level study abroad programs coordinated by the Office of International Programs.

IS 421 Study Abroad External Program (0-18)

Approved study abroad programs for senior- or graduate-level hosted by another US institution.

IS 470 Grant Writing II (3)

This internship course is designed to provide pre-professional work experience, in a sponsored projects office, to facilitate professional development and career exploration in grant writing and grant proposal development in response to both private and public grant opportunities. Prerequisite: None.

IS 471 Grant Administration Internship (3)

This course is designed to provide pre-professional work experience, in a sponsored projects office, to facilitate professional development and career exploration in the administration and management of a grant (sponsored project) award. Prerequisite: IS 270 or IS 470.

WU 101 The Washburn Experience (3)

This three-hour course for first-year students focuses on developing the skills necessary to be successful in college. Each section of the course will use common themes such as the exploration of study skills, wellness, technology, academic integrity, information literacy, global citizenship and others to introduce students to a series of best practices. Prerequisite: None.

(Information Literacy and Tech.)

WU 120 Major and Career Exploration (2)

WU120 will use a Social Science research process to guide students through academic and career exploration in the Information Age. Engaged and capable citizens need a firm grounding in digital research to navigate successfully the Knowledge Economy. Because this world continues to evolve rapidly, having a skill set that provides the ability to evaluate a changing environment is essential. This course meets a core student need by teaching Information Literacy and Technology skills while encouraging students to consider thoughtfully their role as citizens. Prerequisite: None.

The following interdisciplinary studies (IS prefix) courses are associated with the Bachelor of Integrated Studies (p. 149) program listed in the College of Arts and Sciences section of this catalog:

- IS 389 Integrated Studies Capstone Proposal
- IS 390 Integrated Studies Capstone

The following interdisciplinary studies (IS prefix) courses are associated with the Office of International Programs (p. 33) listed in the Academic Institutes and Programs section of this catalog:

- IS 201
- IS 203
- IS 221
- IS 301
- IS 303
- IS 321
- IS 420
- IS 421

African American and African Diaspora Studies, Minor

Description

African American and African Diaspora Studies (AAADS) is an interdisciplinary program that examines the societies and cultures of people of African descent around the globe. This includes the ideas, institutions, and practices that African Americans and people throughout the African diaspora have used to survive and shape the modern world. The mission and learning objectives of the program are rooted in critical race theory-in particular, the premise that the construction of race and ethnicity is inextricably linked to systems of power and privilege-and thus an ability to analyze how concepts of race and ethnicity both influence and are influenced by social, historical, and cultural processes is essential to the pursuit of social justice. AAADS aims to help students cultivate this ability, preparing them to contribute to the creation of a more socially just world through their professional and civic endeavors.

Student Learning Outcomes

Upon completion of the AAADS minor, students will be able to:

- Describe the history of the African diaspora and the continued impact of colonialism, global slave trade, and segregation/apartheid on African Americans and other African diasporic communities.
- Analyze the social construction of race and ethnicity and how their intersections with class, gender, and other factors affect African Americans and other African diasporic individuals and communities.
- Apply interdisciplinary methods and theories appropriate to African American and African Diaspora Studies.
- Demonstrate social justice praxis informed by critical race theory.

Study Plan

To obtain the optional minor in African American and African Diaspora Studies (AAADS), a student must complete at least 15 hours of designated AAADS coursework, including both required and elective courses. Electives must be taken in at least two disciplines, and at least 6 hours of electives must be at the upper-division level. These courses should include AD 200 Introduction to Critical Race & Ethnic Studies. The minor will be supervised by the director of the AAADS program or a member of the AAADS advisory board. Students may complete the minor in two ways. They may

- submit a study plan consisting of coursework formally identified as counting toward the AAADS minor, or
- develop a study plan to request alternate coursework be accepted toward the minor.

The minor plans will be reviewed by the director of the program and advisory board to ensure the program learning outcomes are met. Students wishing to complete the minor must submit their study plan for approval before completing coursework in the minor.

Required Courses

Code	Title	Hours
AD 200	Introduction to Critical Race & Ethnic Studies	3
One of the following courses:		3
HI 328	African-American History	

HI 329	Civil Rights Movement	
HI 370	Modern Africa, c. 1700-Present	
AN 317	Peoples and Cultures of Africa	
Electives that may count toward the minor include but are not limited to:		9
AN 317	Peoples and Cultures of Africa	
AR 309	Art of Africa	
HI 328	African-American History	
HI 329	Civil Rights Movement	
HI 370	Modern Africa, c. 1700-Present	
HS 450/650	Multicultural Issues	
MM 360	Minorities & The Media	
PY 395	Special Topics	
SO 207	Race and Ethnic Relations	
Approved directed readings or independent studies		
Total Hours		15

Please note that, while the classes above all require prerequisites, these prerequisites will be waived for students pursuing this minor program.

AD 199 Special Topics in African American and African Diaspora Studies (3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: Consent of Instructor

AD 200 Introduction to Critical Race & Ethnic Studies (3)

This course provides students with foundational knowledge of Critical Race Theory as a lens to understand race and ethnicity as socially, culturally, and historically constructed realities that sustain unequal distribution of political and socioeconomic power and inform constructions of identity and community. Students will gain skills to work toward an anti-racist and socially just society. Prerequisite: None. (General Ed Social Science. Global Citizenship Ethics Div.)

AD 299 Special Topics in African American and African Diaspora Studies (3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: Consent of Instructor

AD 395 Directed Study in African American and African Diaspora Studies (1-3)

Directed readings and individualized research program on a subject relevant to African American and African Diaspora Studies and with the guidance of a professor. May be taken for more than one semester. Prerequisite: Consent of Instructor and approval of the AAADS Director.

AD 397 Internship in AAADS (1-3)

A program for junior/senior-level undergraduates offered in cooperation with a local or state agency with the supervision of faculty and/or the AAADS Director. Prerequisite: Approval of the AAADS Director.

AD 399 Special Topics in African American and African Diaspora Studies (3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: Consent of Instructor

Game Design

Game Design, Minor

An optional minor in game design is offered through the Mathematics and Statistics Department. For more information, contact the director, Dr. Gaspar Porta and see additional details in the "Mathematics and Statistics (p. 171)" section of the catalog.

Gerontology, Minor

Dr. Deborah Altus, Coordinator

Description

This minor is constructed around the premise that a broader understanding of Gerontology is critical to meet the needs of an aging society. The minor is also based on the premise that Gerontology is, by its nature, an interdisciplinary course of study requiring education in bio-psycho-social issues. Expanded career opportunities in gerontology are forecast in many areas, including healthcare, the helping professions, public policy and more. As a result, this minor is open to all undergraduate students across the university and includes courses from a variety of disciplines. This minor will prepare students to meet increasing workforce needs of an aging society and/or to pursue graduate study in Gerontology or related fields.

Student Learning Outcomes

Students minoring in Gerontology, upon graduation, will be able to:

- Describe biological, psychological, and social changes that occur as the result of aging.
- Describe societal changes that are associated with an aging population.
- Describe ways in which aging is intersected by race, ethnicity, gender, socio-economic status, and other important social variables.
- Use evidence-based information, effective logic and accurate vocabulary to communicate about Gerontology.

Study Plan

To obtain the optional minor students will complete at least 18 credit hours of coursework. In addition to nine credit hours of required coursework, students must complete at least nine credit hours of elective courses. At least six hours must be upper division coursework. Some elective courses require completion of prerequisites. The list of electives may be modified as new courses with Gerontology content become available. The coordinator will provide advising, review requests for substitutions with a petition from the student, and will serve in the role of department chair to certify that a student has successfully met the requirements for this optional minor. Students wishing to obtain elective credit for a directed study or internship course must obtain prior approval from the coordinator.

Minor Requirements

Code	Title	Hours
HS 378	Issues in Aging	3
PY 212	Psychology of Adulthood and Aging ¹	3
BI 260	Biology of Aging (or pre-approved substitution if the course is not offered) ²	3

Elective courses (p. 41)	9
Total Hours	18

¹ Prerequisite: PY 100

² Prerequisite: BI 100 Introduction to Biology - health emphasis section recommended

Elective Courses

Code	Title	Hours
AL 101	Foundations of Healthcare	3
AL 366	Legal & Regulatory Issues for the Health Care Professional	3
AL 420	Current Issues in Health Care	3
AN 312	Medical Anthropology ¹	3
AR 291/391	Art Therapy	3
CN 306	Health Communication ²	3
CN 351	Interpersonal Communication ²	3
HS 131	Human Development	3
HS 301	Working with Trauma	3
HS 371	Mental Health and Aging	3
HS 372/NU 335	Death & Dying	3
HS 390	Special Topics (Strategies in Lifespan Resilience)	1-6
HS 390	Special Topics (Disability Studies)	1-6
HS 411	Family Issues	3
LG 220	Wills & Estate Administration ³	3
LG 320	Elder Law ³	3
KN 248	Wellness Concepts and Applications	3
NU 335	Special Topics/Nursing (Interdisciplinary Community Health)	3
NU 335	Special Topics/Nursing (Palliative Care)	3
PO 305	Public Policy	3
PY 326	Health Psychology ⁴	3
SO 326	Aging and Society ⁵	3
SW 360	Geriatric Social Work Practice	3
An internship or practicum in a setting approved by the coordinator		0-3
A directed study course approved by the coordinator		0-3

¹ Prerequisite: AN 112

² Prerequisite: CN 101

³ Prerequisite: LG 100 or LG 200 or consent

⁴ Prerequisite: PY 100

⁵ Prerequisite: SO 100

⁶ Prerequisite: SW 100, SW 250 or consent

Information Literacy Studies, Minor

Sean Bird, Director
Associate Dean, University Libraries

Information Literacy at Washburn University is an online program open to all baccalaureate students in all majors and degree programs. The program contains both theoretical and experiential components, for a total of 15-credit hours. The primary objective of the program is to teach students Information Literacy and prepare them to take an active role

in lifelong learning in the Information Age into which they will graduate and live their professional lives. The IL Minor directly supports the Washburn University student learning outcome Information Literacy and Technology.

Students will choose three upper-division courses tailoring their individual Information Literacy Minor paths to complement their major classes and career goals. Elective course requirements shall remain flexible to the addition of new online curriculum and/or departmental offerings across campus (e.g. MM 400 Media Literacy).

Student Learning Outcomes

Upon successful completion of the Information Literacy Minor, students will be able to:

- Define the nature and extent of information needed.
- Identify types of information resources available.
- Evaluate information and sources critically.
- Use information effectively to accomplish a purpose.

Minor Requirements

The program requirements for the Information Literacy Minor at Washburn are: 15 total credit hours (6 required credits)

Code	Title	Hours
CM 101	Computer Concepts and Applications	3
IL 170	Library Research Strategies	1
IL 171	Internet Research Strategies	1
IL 172	Advanced Research Strategies	1
Select three of the following:		9
IL 300	Information Literacy for Scholars	
IL 301	Google and Beyond	
IL 311	Information Literacy Health Professions	
IL 321	Information Organization and Access	
IL 351	Information, Culture, & People	
IL 398	Information Literacy Readings	
IL 399	Information Literacy Research	
Total Hours		15

Courses Offered

IL 170 Library Research Strategies (1)

Designed to both introduce and improve basic library research skills using the print and automated information retrieval resources of the Mabee Library. Additional in-depth analysis of database sources, the ability to construct search strategies and evaluation of materials are covered. Prerequisites: None.

(General Ed Humanities, General Ed Natural Science, General Ed Social Science. Information Literacy and Tech.)

IL 171 Internet Research Strategies (1)

Designed to both introduce and improve research strategies for finding scholarly information on the Internet, including resources in the Invisible Web that cannot be accessed with standard search engines, such as Google. Students will learn to formulate and modify an effective search strategy, investigate the theory behind the search process, and critically evaluate electronic resources based on appropriate criteria. This course is offered on-campus, on-line or hybrid. Prerequisites: IL 170.

IL 172 Advanced Research Strategies (1)

Designed to introduce and improve advanced research strategies for students that have completed both IL 170 and IL 171. Students will focus on research in the disciplines and create artifacts for an identified discipline. This course is ideal for students that are interested in designing a research plan for publication. This course is offered on-campus, on-line or hybrid. Prerequisites: IL 171.

IL 174 Trace Your Family History (1)

In this course, students will use an advanced approach to the research process and methods for retrieving information for a scholarly paper or presentation. Experience in the research process, selecting a topic, and retrieving information on topics is required. Focus is on developing the following skills: understanding the many types of research, methods, delivery of research results in the academic community. Prerequisites: None.

IL 300 Information Literacy for Scholars (3)

In this course, students will use an advanced approach to the research process and methods for retrieving information for a scholarly paper or presentation. Experience in the research process, selecting a topic, and retrieving information on topics is required. Focus is on developing the following skills: understanding the many types of research, methods, delivery of research results in the academic community. Prerequisites: None.

IL 301 Google and Beyond (3)

An introduction to information searching and evaluating information in digital, print, visual, and aural formats, students will learn advanced search techniques used in online resources. Students will develop skills to locate reliable information to become and remain informed citizens. This class will improve student communication, critical thinking, and information literacy skills. Prerequisites: None.

IL 311 Information Literacy Health Professions (3)

This course acquaints students with the processes of finding, organizing, using, producing and distributing information in a variety of formats specific to the Health Sciences. Students will examine the flow of information in a variety of Health Sciences disciplines, effective research processes, how to access information in multiple formats and how to formulate effective searches in health specific electronic databases and on the Internet. Learning how to evaluate the quality of information and becoming familiar with practical, social and ethical issues relating to information within the health professions in an increasingly technological society is a key component of the course. This class seeks to improve student communication, critical thinking and information literacy skills in health professions. Prerequisites: None.

IL 321 Information Organization and Access (3)

This course introduces the fundamentals of identifying objects or ideas, including description, content indication, and metadata. Students will learn basic aspects of representing and organizing information resources in daily lives or academic settings. This class will improve student communication, critical thinking, and information literacy skills. Prerequisites: None.

IL 351 Information, Culture, & People (3)

In a study of how individuals and groups create meaning, students will explore research topics concerning people and communication, including information literacy, organization and innovation, knowledge management, and information as cultural phenomenon. Students will study various international and generational cultures' access to and ways to share information, preparing them for interaction with professional colleagues from varied backgrounds. This class will improve student communication, critical thinking, information literacy skills, and understanding of the knowledge society. Prerequisites: None.

IL 398 Information Literacy Readings (3)

The 3-credit forum course for Information Literacy Minors to provide students guidance and training in the skills and processes necessary for the practice of Information. The course draws upon research methods and critical analysis culminating with an annotated bibliography. Also, students will be introduced to opportunities in the Information Literacy field and the ethics of information literate citizens in the knowledge society. The course will be delivered online. Prerequisites: IL 170, IL 171, and IL 172 or consent of instructor.

IL 399 Information Literacy Research (1-3)

The capstone course for Information Literacy Minors devoted to guided and independent research, developing bibliographic techniques in the creation of a written artifact and culminating in a presentation to the class. The course will be delivered online. Prerequisites: IL 170, IL 171, and IL 172 or consent of instructor.

International Business, Minor

The Minor in International Business provides students with the opportunity to gain an understanding of the special considerations and implications of operating a business in a global environment. Students completing the minor will have an introduction to the basic economics, management, and marketing principles as applied by business today. Students will be exposed to the language and operation of business in a multinational and national environment. For more information, see the "School of Business (p. 291)" section of this catalog.

International Studies, Minor

The curriculum for the Minor in International Studies consists of three components: a foreign language, study abroad and course work. For more information, see the "Modern Languages (p. 179)" section of this catalog.

Kansas Studies, Minor

Website: <http://www.washburn.edu/cks> (<http://www.washburn.edu/cks/>)

Dr. Vanessa Steinroetter, Co-Director

Danielle Head, MFA, Co-Director

Steinroetter: (785) 670-1734; Head (785) 670-1632

Minor Offered

The Washburn University Kansas Studies Minor is an interdisciplinary program devoted to encouraging research, sponsoring programming, and promoting outreach that focuses on the past, present, and future of Kansas.

Student Learning Outcomes

Upon completion of the Kansas Studies minor, students will be able to:

- Describe the natural environment of Kansas and how humans have interacted with that environment.
- Demonstrate knowledge of the diversity of cultures, arts, and literature of Kansas
- Critically analyze central processes and developments in Kansas history, economics, and politics

Study Plan

To obtain the optional minor in Kansas Studies, a student must complete at least 15 hours of designated Kansas Studies course work, with at least 6 of those hours at the upper-division level. The minor will be supervised by the director(s) of the Center for Kansas Studies.

Courses which may be applied toward the requirements of the minor include, but are not limited to, the following:

Code	Title	Hours
AN 369	Kansas Archaeology	3
EN 138	Kansas Literature	3
GG 304	Geography of Kansas	3
GL 103	Historical Geology	3
HI 322	Kansas History	3
KS 199	Special Topics: Kansas Studies	3
KS 340	Kansas Studies	1-3
KS 395	Independent Study - Kansas Studies	1-3
KS 397	Internship in Kansas Studies	1-3
KS 399	Special Topics-Kansas Studies	3
PO 107	Kansas and the U.S., State and Local Government	3
PO 309	Kansas Legislative Experience	3
PO 307	Internship - State or Local Government	3-6

Courses Offered

KS 199 Special Topics: Kansas Studies (3)

An interdisciplinary topics course on a theme associated particularly with Kansas history and culture, which is team taught by Fellows of the Center. Students and faculty will be challenged to integrate material from different perspectives on a common topic based on joint interest and available resources. As topics change, the course may be repeated for credit.

KS 340 Kansas Studies (1-3)

A multidisciplinary course taught by faculty members of the Center for Kansas Studies that stresses the interrelationships among all aspects of Kansas including anthropology, archaeology, ethnicity, fine arts, geography, geology, history, literature, politics and religion. Prerequisite: None.

(General Ed Social Science. Global Citizenship Ethics Div.)

KS 395 Independent Study - Kansas Studies (1-3)

Directed readings and individualized research program on a subject relevant to Kansas Studies and with the guidance of a professor. May be taken for more than one semester. Prerequisite: Consent of Instructor and approval of Director of the Center for Kansas Studies.

KS 397 Internship in Kansas Studies (1-3)

A program for junior/senior-level undergraduates offered in cooperation with a local or state agency with the supervision of the Director of the Center for Kansas Studies. Prerequisite: Approval of Director of the Center for Kansas Studies.

KS 399 Special Topics-Kansas Studies (3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: Consent of Instructor

Latin American, Caribbean, and Latino/a Studies, Minor

Dr. Kim Morse, Advisor

Optional Minor

This minor is constructed around the premise that broader understanding issues that face Latin America, the Caribbean and the Latino/a population today is crucial in the global community. The minor is also constructed around the second premise that nations do not exist in isolation. Interaction and interdependence shaped nations in the Western hemisphere in the past, do so in the present, and will continue to do so in the future.

To obtain the optional minor students will complete at least 18 credit hours of coursework. In addition to six credit hours of required coursework, students must complete at least 12 credit hours of elective courses from at least two disciplines. A student will not be able to take more than six elective credits in a single discipline. Some courses require completion of prerequisites. The advisor will serve in the role of department chair to certify that a student has successfully met the requirements for this optional minor.

Student Learning Outcomes

Latin American, Caribbean, and Latino/a Studies minors, upon graduation from Washburn University, are expected to have:

- Acquired an intermediate fluency in Spanish, written, reading and speaking.
- Acquired a basic understanding of the history of the relationships between nations in the American hemisphere.
- Acquired knowledge of cultural and ethnic relationships, economics, literature, and environmental issues pertinent to Latin American, Caribbean and Latino/a peoples in the Americas

Minor Requirements

Code	Title	Hours
SP 201	Intermediate Spanish I	3
or SP 202	Intermediate Spanish II	
Select one of the following:		3
HI 100	Survey of Early World History	
HI 101	Changing World History: Traditions and Transitions	
HI 102	Modern World History	
AN 112	Cultural Anthropology	
Elective courses (p. 44)		12
Total Hours		18

Elective Courses

Elective courses include, but are not limited to the following:

Code	Title	Hours
MU 106	Introduction to World Music and its History	3
HI 360	History of Mexico	3
HI 361	Colonial Latin America	3
HI 362	History of Latin America	3
HI 363	Borderlands and Beyond	3
HI 364/SP 340	History/Literature of Latin America	3
HI 300	Topics in History ¹	1-3
HI 398	Directed Readings ¹	1-6
SP 290/390	Study Abroad Spanish Speaking Country	1-15
SP 307	Contemporary Hispanic Culture	3
SP 325	Civilization of Mexico	3
SP 326	Civilization of Latin America	3
SP 331	Introduction to Hispanic Literature	3
SP 370	Latin American Literature through the 19th Century	3
SP 372	Twentieth Century Latin American Literature	3
SP 380	Hispanic Culture thru Film	3
SP 399	Special Topics/Spanish ¹	3
PO 372	Topics: Comparative Politics	3
PO 373	Topics-International Relations	3
AN 114	Introduction to Archaeology	3
AN 314	The Im/migrant Experience in America	3
AN 320	Ancient Latin America	3
AN 300	Special Topics in Anthropology ¹	3
IS 400	Special Topics ¹	3
AD 200	Introduction to Critical Race & Ethnic Studies	3
Total Hours		69-90

¹ as pertinent to the minor, with permission of the minor advisor

Museum and Curatorial Studies, Minor

Description

Museum and Curatorial Studies is an interdisciplinary program that examines the practices associated with the collection, analysis, and exhibition of art, artifacts, specimens, and interpretive displays for the purpose of preservation, interpretation, and public engagement. It also considers the practices associated with the governance, administration, and responsible fiscal management within the professional world of museums and other collection and exhibition spaces. Finally, the field of museum studies seeks to understand the dynamic role museums, galleries, and collecting play in history and culture.

Student Learning Outcomes

Upon completion of the Museum and Curatorial Studies minor, students will be able to:

1. Demonstrate understanding of approaches to work performed in museums and galleries including operations, collections management, interpretation, exhibition, and museum education.

- Analyze the role of public exhibitions in culture, for example, as institutions embedded in historical contexts and as sites of cultural production.
- Apply interdisciplinary methods and theories appropriate to the various aspects of museum and curatorial studies to an aspect of museum work that could include operation collections management, interpretation, exhibition, or museum education.

Study Plan

To obtain the optional minor in Museum and Curatorial Studies, a student must complete at least 18 hours of designated Museum and Curatorial Studies coursework, including both required and elective courses. Required courses include:

Code	Title	Hours
MC 200	Introduction to Museum and Curatorial Studies	3
AR 313	Museum Studies	3
MC 400	Capstone in Museum and Curatorial Studies	3
Total Hours		9

Students will work with the director of the Museum and Curatorial Studies to create a study plan of 9 additional credit hours in elective courses that satisfy the program's learning outcomes and complement a student's major area and interests. These electives must be taken in at least two disciplines, and at least 6 hours of electives must be at the upper-division level. This study plan must be approved before a student completes coursework in the minor program.

Peace, Justice, And Conflict Resolution Studies, Minor

Henderson Learning Center, 311
(785) 231-2060

Affiliated Faculty

Professor Deborah Altus, Family and Human Services
 Professor Alan Bearman, History
 Professor Bob Beatty, Political Science
 Professor Rick Ellis, Human Services
 Professor Rachel Goossen, History
 Professor Chris Hamilton, Political Science
 Professor Tom Prasch, Chair, History
 Professor Kim Morse, History
 Associate Professor Mary Sheldon, English
 Assistant Professor Bradley Siebert, English

Mission

Peace Studies is an interdisciplinary program of study, building on existing course offerings in a range of departments, that incorporates both international peace and justice issues and, through internship opportunities with community-based agencies, local dimensions of conflict resolution. Students will combine core courses in Peace Studies with elective courses from departments across campus that share a common theme of peace, justice, and conflict resolution.

To obtain the Optional Interdisciplinary Minor in Peace, Justice and Conflict Resolution, a student must complete at least 18 hours of course

work, comprised of 15 hours of designated core courses and 3 hours of electives. Some of these courses require prerequisites. The Minor will be supervised by a Committee of Advisors and coordinated by the Dean of the College of Arts and Sciences.

Student Learning Outcomes

Students minoring in Peace, Justice, and Conflict Resolution, upon graduation, are expected to have:

- Shaped an effective thesis in written work about Peace Studies.
- Offered analytical interpretations of peace and conflict in the world.
- Integrated materials from multiple disciplines related to Peace Studies.
- Used effectively organization, logic, and vocabulary in writing about Peace Studies.

Minor Requirements

Students will take 18 hours of coursework with Washburn faculty who have interest and expertise in Peace Studies, with fifteen hours of core courses (listed below) and 3 hours of electives.

Electives can be chosen from a wide range of designated courses (see below).

Code	Title	Hours
Core		
IS 110	Special Topics ¹	6
CN 330	Communication in Conflict and Negotiation	3
CN 363	Intercultural Communication	3
HI 397	Internship in Historical Agencies	3
Subtotal		15
Electives		
Elective courses (p. 45)		3
Subtotal		3
Total Hours		18

Elective Courses

Courses which may be counted as elective credit for Peace Studies include, but are not limited to:

Code	Title	Hours
AN 336	Globalization	3
BI 203	Human Impact on the Environment	3
BI 310	Ecology	4
BI 343	Human Genetics	3
CN 350	Persuasion	3
CN 361	Communication in Social Movements	3
EC 201	Principles of Macroeconomics	3
EN 133	Stories Around the World	3
EN 399	Special Topics - Writing/Reading ¹	1-3
GG 102	World Regional Geography	3
GG 302	Natural Resources Conservation	3
HI 329	Civil Rights Movement	3
HI 300	Topics in History (or other special topics courses) ¹	1-3
HI 311	Cold-War America, 1945-1990	3

HI 398	Directed Readings ¹	1-6
HS 201	Victimology	3
HS 202	Victim/Survivor Services	3
HS 302	Social Change & Advocacy/Human Services	3
HS 390	Special Topics	1-6
MS 330	International Conflict	3
NU 306	Health Assessment & Promotion	4
PH 102	Ethics: Introduction to Moral Problems	3
PH 312	Social-Political Philosophy	3
PO 225	Introduction to International Politics	3
PO 346	Problems in Public Administration ¹	3
RG 102	World Religions	3
SO 207	Race and Ethnic Relations	3
SO 301	Population and Society	3
SO 306	Law and Society	3
SO 310	Social Class in the U.S.	3
SO 338	Strategies for Social Change	3
SW 250	General Social Work Perspectives	3
SW 350	Social Policy and Programs	3
Special topics in interdisciplinary studies ²		
HI 397	Internship in Historical Agencies	3
Directed experience in an agency ^{2,3}		

¹ When relevant to Peace Studies

² Prerequisite: Consent of Instructor

³ Such as the Topeka Center for Peace & Justice, whose mission is directly related to peace and justice issues, or an approved special project in the areas of peace and justice. May be repeated once for a maximum of 6 hours of awarded credit.

Women's and Gender Studies, Minor

Dr. Sharon Sullivan
Garvey 122
Email: sharon.sullivan@washburn.edu

Mission

The Washburn University Women's and Gender Studies Minor is an interdisciplinary program devoted to encouraging research on women and gender, sponsoring events focused on issues relevant to women and gender, and promoting outreach across the campus and to the larger community. Women's and Gender Studies explores the connections between race and ethnicity, class, sexual identity and gender as they impact women's and men's lives in a variety of cultural contexts. Courses critically examine the social, historical, psychological, literary, artistic, philosophic, and biological roles of women and gender while seeking to provide a fuller understanding of the multidimensional nature of personhood. Emphasizing the connections between theory and practice, Women's and Gender Studies encourages applied learning through internships, community involvement projects, research, and service learning courses.

Student Learning Outcomes

Upon completion of the Women's and Gender Studies minor students will be able to:

- Critically analyze the basic components that distinguish feminist methodologies from other approaches of inquiry.
- Describe the multiple ways in which gender is intersected by other social relations such as race, ethnicity, sexuality, class, and nation.
- Apply feminist methodology to course subject matter, demonstrating in-depth knowledge of one aspect of women's experience learned through (for example) a literary genre, a time period, a geographic region, or focus on a very narrow topic.

Study Plan

To obtain the Optional Minor in Women's & Gender Studies, a student must complete at least 18 hours of designated Women's & Gender Studies course work, with at least 6 of the hours at the upper division level. These courses should include WG 175 Introduction to Women's Studies and WG 400 Women's/Gender Study Capstone. The minor will be supervised by a Women's & Gender Studies Advisory Committee member. Students may complete the minor in two ways. They may (a) submit a study plan consisting of coursework formally identified as counting towards the WGSM or (b) they may develop a study plan to request alternate coursework be accepted toward the minor. The minor plans will be reviewed to ensure the program learning outcomes are met. Students wishing to complete the minor must submit their study plan for approval before completing coursework in the minor.

Minor Requirements

Code	Title	Hours
WG 175	Introduction to Women's Studies	3
WG 400	Women's/Gender Study Capstone	3
Courses which may be applied to the minor include:		
Select 12 credit hours from the following:		12
AN 321	Anthropology of Women	
EN 214	Women & Literature	
HI 315	Women in US History	
HI 380	Women in World History	
WG 375	Women and Popular Culture	
PY 395	Special Topics	
PY 339	Psychology of Sex and Gender	
WG 390	Human Trafficking and Modern Day Slavery	3
WG 199	Special Topics	3
or WG 399	Special Topics	
WG 395	Independent Study	3
Pertinent Special Topics courses ¹		
Total Hours		27

¹ Such as Women & Gender in Early America, Feminist Theories, etc. Approval required.

Courses Offered

WG 175 Introduction to Women's Studies (3)

Introduces the principal history, methods, issues and debates in Women's Studies utilizing an interdisciplinary approach. Through a broad range of issues confronting women, the course examines both historical and contemporary ideas, institutions, and constraints that shape women's lives. Attention will be focused on differences among women as well as the potential for women's unity and empowerment. Prerequisite: None. (General Ed Humanities. Global Citizenship Ethics Div.)

WG 199 Special Topics (0-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: Varies by course and instructor.

WG 375 Women and Popular Culture (3)

This course explores the ways women are depicted in popular culture and how these integrated patterns and beliefs are transmitted to succeeding generations. We will identify how these images influence basic assumptions about societal roles and expectations of women and, therefore, female development. This examination of popular culture genres reveals the influence of pop culture and its impact on stereotypes, personal and professional relationships. Through readings, text analysis, discussion and research-oriented writing assignments, the course will engage interdisciplinary methods to examine gender and popular culture. Students will learn to analyze and critique the narratives that shape their own perceptions of gender, sex and identity, and formulate a personal response to gender identity. Prerequisite: None.

(General Ed Humanities. Critical and Creative Thinking.)

WG 390 Human Trafficking and Modern Day Slavery (3)

An advanced undergraduate course that focuses on contemporary human trafficking and slavery. Types of trafficking and slavery to be covered include sex trafficking, bonded labor, forced labor, child soldiers, chattel slavery, and domestic servant slavery. The contributing roles of the state, organized crime, the media, culture, and corruption will be examined. Debates about defining trafficking and the connection between sex trafficking and prostitution will be reviewed. Course materials may include testimonies and autobiographies by survivors, research reports, theoretical essays, policy statements, expert testimonies, podcasts and videos. Prerequisite: Junior standing or permission of the instructor.

WG 395 Independent Study (0-3)

This course allows the student to pursue individualized scholarship with guidance from a professor. The format may vary in terms of the student's special interests, abilities, imagination, and creativity. May consist of a research paper, a comprehensive written examination on selected reading materials, an oral presentation, or a special performance utilizing one or more art forms or modes of expression. Prerequisite: Consent of Instructor.

WG 399 Special Topics (0-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: Varies by course and instructor.

WG 400 Women's/Gender Study Capstone (3)

The capstone is a required course that gives students a forum to synthesize and apply theories, methods and concepts that they have learned throughout their minor in Women and Gender Studies. Individualized advanced projects focused on women, gender and/or sexuality are designed in collaboration between the student and their WaGS adviser and can include a research paper, an internship, service learning or activist project. Prerequisite: Junior standing.

Reserve Officer Training Corps

Air Force Reserve Officer Training Corps (ROTC)

Air Force ROTC – Det 270 (KSU)
AFROTC Detachment 270
1304 N. 17th Street, Room 108
Manhattan, KS 66506-2101

(785)532-6600 afrotc@ksu.edu

Air Force ROTC – Det 280 (KU)
AFROTC Detachment 280
1520 Summerfield Hall Drive, Room 109
Lawrence, KS 66045-7605
(785)864-4676 afrotc@ku.edu

Program Eligibility and Enrollment: Students from Washburn University, Barton County Community College-Fort Riley Campus, and Manhattan Christian College may currently attend Kansas State University for Air Force ROTC (AFROTC) classes while simultaneously working towards their degree from these other schools. They will be enrolled in the AFROTC classes as non-degree seeking students at K-State. Students from Washburn University, Baker University, Benedictine College, Donnelly College, Haskell Indian Nations University, Johnson County Community College, Mid-Nazarene University, Ottawa University, and the University of St. Mary may currently attend the University of Kansas for Air Force ROTC (AFROTC) classes while simultaneously working towards their degree from these other schools. They will be enrolled in the AFROTC classes as non-degree seeking students at KU.

General Information: The Air Force Reserve Officer Training Corps provides the best means for undergraduate students to become officers in the United States Air Force. Upon completion of the university program, students are commissioned second lieutenants, and then enter active duty in one of the four rated flying positions, or a technical or nontechnical career field; are deferred for graduate study, to enter active service after degree completion; or enter into Air Force-sponsored graduate study at full pay while serving as Air Force officers.

Any undergraduate student with at least three years left in their degree program who is a U.S. citizen may apply to become a cadet by enrolling in AERO 110 and AERO 099 at Kansas State or AIR 100 and AIR 144 at KU. The duration of the program is typically four years but can be condensed into two years or expanded to five years, depending upon an applicant's previous experience and the availability of different options.

Scholarships: Full-time students who qualify to become Air Force officers, with three or more years left for degree completion (including graduate study), are eligible to apply for scholarships. If selected, students will have their tuition, fees, and a book allowance paid for by the U.S. Air Force; they will also receive a \$300 to \$500 monthly stipend while in school. All payments are tax free.

High school students considering the four-year Air Force High School Scholarship Program must be highly motivated toward becoming Air Force officers. To qualify, students should be above-average scholars, be physically capable, possess leadership potential, and apply before January of their senior year of High School. Financial benefits are the same as the undergraduate scholarships mentioned earlier. Applicants should contact their high school counselor or an AFROTC officer for applications and further information. Visit the KSU or KU AFROTC websites for more details.

Four-year program

Basic course: Students electing the four-year program normally will begin with the General Military Course (GMC) during the freshman or sophomore year. This program consists of four semesters of 1 credit hour each and enrollment in the Air Force ROTC Leadership Lab. Aerospace Studies GMC courses are open to all students at the university without

obligation to military service. Students in the GMC are provided uniforms, texts, and other equipment needed for their AFROTC courses.

Advanced course: The Professional Officer Course (POC) is the upperclass program and consists of four courses of 3 credit hours each, over a period of four semesters. All cadets in the POC become members of the Air Force Reserve and receive \$450 to \$500 a month and all necessary AFROTC texts and equipment. Upon completion of the POC and their degree requirements, students are commissioned as second lieutenants in the United States Air Force.

Field training: Cadets practice their leadership and management skills in a cadet group. Cadets who are in the four-year program attend 13 days of field training at an Air Force base during the summer prior to entering the POC. During training, cadets are paid and receive travel pay to and from the training base.

Extracurricular activities: Students enrolled in Air Force ROTC may participate in many activities including detachment-sponsored events and social functions. Cadets pursuing officers' commissions are eligible for membership in the Arnold Air Society, a national honorary professional and service organization established to foster good relations among Air Force ROTC, the Air Force, the campus, and the local community. Participation in the Arnold Air Society is voluntary. Students are also eligible to participate in Honor Guard, a team that presents the colors at University and local community events.

Aerospace Studies Minor: Cadets who finish the AFROTC program at Kansas State University can earn an Aerospace Studies minor.

Army ROTC

Under an agreement between Washburn University, the University of Kansas, and the U.S. Army, students may participate in Army ROTC classes taught at Washburn by KU faculty. First and second year courses are taught at Washburn; third and fourth years and all labs are at Kansas University. Army ROTC classes may be taken by any Washburn student and are available to students at **no tuition cost**. For those that contract into the program, the culmination of the ROTC program is a commission as an officer in either the active army or in the Army Reserve or National Guard.

For those that choose to seek a commission while participating in ROTC, students pursue an academic degree in any academic major of their choice. ROTC classes are divided into basic and advanced courses. All necessary ROTC books and equipment are provided to the student free of charge.

For those interested in scholarship opportunities, Army ROTC awards four-year, three-year, and two-year scholarships on a competitive basis. For detailed scholarship information contact Joe Midgley, Operations Officer, Admissions & Scholarship, (785) 864-1113, joemidgley@ku.edu.

Air Force ROTC Courses (taken at KSU or KU)

AERO 099 (KSU) or AIR 100 (KU) - Aerospace Studies Lab (0)

The leadership laboratory for aerospace studies. Students will receive leadership training and experience as well as training in Air Force customs and courtesies. This course runs concurrently with AERO/AIR 100, 200, 300, and 400 level classes; is required for all cadets; and includes mandatory physical fitness training.

AERO 110 (KSU) or AIR 144 (KU) – The Foundation of the United States Air Force – Heritage and Values 1 (Fall Only, 1)

Introduces the Air Force (AF) by examining general aspects of the Department of the AF, AF Leadership, AF benefits and opportunities for AF Officers. This course lays the foundation for Airman by outlining our heritage and values through topics such as: customs and courtesies, AF standards, formation of the AF and building officer communication skills.

AERO 111 (KSU) or AIR 148 (KU) - The Foundation of the United States Air Force – Heritage and Values 2 (Spring Only, 1)

Builds on AERO 110 and the introduction to the Air Force (AF) by examining general aspects of the Department of the AF, AF Leadership, AF benefits and opportunities for AF Officers. This course continues to lay the foundation for Airman by outlining our heritage and values through lessons such as: war and the US military, AF operations, principles of war and airpower.

AERO 210 (KSU) or AIR 284 (KU) – Team and Leadership Fundamentals 1 (Fall Only, 1)

Provides a fundamental understanding of both leadership and team building. Covers subjects such as self-assessment, listening, followership, problem solving, motivation, and standards and accountability.

AERO 211 (KSU) or AIR 288 (KU) - Team and Leadership Fundamentals 2 (Spring Only, 1)

Builds on the fundamental understanding of both leadership and team building started in AERO 210. Covers subjects such as building teams, human relations, conflict management, feedback, and ethical decision making.

AERO 215 (KSU) or AIR 215 (KU) - AFROTC Summer Program (Summer Only, 4)

Provides cadets with a 13-day program designed to evaluate military leadership and discipline, determine potential for entry into the Professional Officer Course (POC), and provide stratification amongst their peers.

AERO 310 (KSU) or AIR 344 (KU) - Officer Leadership Studies 1 (Fall Only, 3)

A study of USAF professionalism, leadership, and management includes the meaning of professionalism, professional responsibilities, leadership theory, functions and practices, management principles and functions, problem solving, and management tools, practices, and controls.

AERO 311 (KSU) or AIR 348 (KU) - Officer Leadership Studies 2 (Spring Only, 3)

Continuation of AERO 310.

AERO 410 (KSU) or AIR 404 (KU) - Regional Studies and Defense Policy (Fall Only, 3)

This course will examine the role of the professional officer in a democratic society; socialization processes within the armed services; the requisites for maintaining adequate national security forces; political, economic, social constraints upon the overall defense policy-making process, and the global environment that the military exists within.

AERO 411 (KSU) or AIR 408 (KU) - Aerospace Studies/Civil Military Relationships (Spring Only, 3)

Focuses on the complex environment of rules and regulations that an Air Force officer lives within. Examines how a new military officer functions both as a leader and as an Air Force member. Communicative skills are stressed.

Army ROTC Course Offerings

ARMY 101 Introduction to Military Science I (1)

Required introductory course for the Army military science program. Course is comprised of one hour of lecture and one hour of laboratory per week. Introduces the military science program as an element of the reserve forces and includes an examination of major legislation, the Army organization structure, and military leadership techniques. Course must be taken in conjunction with ARMY 101L.

ARMY 101L Army ROTC Lab (0)

Required ROTC Lab. Must be taken in conjunction with ARMY 101.

ARMY 102 Introduction to Military Science II (1)

Course comprised of one hour of lecture and one hour of leadership laboratory per week. A general study and appreciation of the American military system from colonial times to the present. The course identifies factors present in the American society and national policy in each particular historical period which influenced the development of American military systems. The relationship between the military establishment and the larger American society is examined in each historical period. Course must be taken in conjunction with ARMY 102L Lab. Prerequisites: ARMY 101/ARMY 101L or department approval.

ARMY 102L Army ROTC Lab (0)

Required ROTC Lab. Must be taken in conjunction with ARMY 102.

ARMY 201 Basic Military Science I (1)

Course comprised of one hour of lecture and one hour of laboratory per week. Analyzes the principles of war and military leadership at small unit level, and introduces principles of military writing. Course must be taken in conjunction with ARMY 201L Lab. Prerequisites: ARMY 102/ARMY 102L or department approval.

ARMY 201L Army ROTC Lab (0)

Required ROTC lab. Must be taken in conjunction with ARMY 201.

ARMY 202 Basic Military Science II (1)

Course is comprised of one hour of lecture and one hour of leadership laboratory per week. Curriculum consists of the fundamentals of topographic map reading and their application in a field environment. Includes instruction in various types of maps, marginal information, topographic symbols and colors, scale, distance, direction and use of the magnetic compass. Course must be taken in conjunction with ARMY 202L Lab. Prerequisites: ARMY 201/ARMY 201L or department approval.

ARMY 202L Army ROTC Lab (0)

Required ROTC lab. Must be taken in conjunction with ARMY 202.

ARMY 301 Theory & Dynamics of Tactical Operations I (3)

Course is comprised of three hours of lecture and two hours of leadership laboratory per week. A comprehensive study of conventional tactical operations. Emphasizes the fundamentals of land warfare and the qualities necessary to conduct fluid, non-linear operations. Introduces the student to the tenets of Air-Land Battle, the underlying structure of modern warfare, the dynamics of combat power, and the application of classical principles of war to a contemporary battlefield. Approved for degree credit in the College of Liberal Arts and Sciences. Such courses count within the limit of 25 hours accepted from other schools and divisions. One hour lecture and one hour lab (ARMY 301L) per week. Prerequisite: ARMY 202 or KU department approval.

ARMY 301L Army ROTC Lab (0)

Required ROTC lab. Must be taken in conjunction with ARMY 301.

ARMY 302 Theory & Dynamics of Tactical Operations II (3)

Course is comprised of three hours of lecture and two hours of leadership laboratory per week. Expands on the application of conventional tactical operations in the low, medium, and high intensity conflict spectrum. Examines the three-dimensional nature of modern warfare and the unified battlefield. Approved for degree credit in the College of Liberal Arts and Sciences. Such courses count within the limit of 25 hours accepted from other schools and divisions. One hour lecture and one hour lab (ARMY 302L) per week. Prerequisite: ARMY 301 or KU department approval.

ARMY 302L Army ROTC Lab (0)

Required ROTC lab. Must be taken in conjunction with ARMY 302.

ARMY 303 Military Conditioning (1)

Introduction to the theoretical and practical aspects of developing physical fitness programs for all Army personnel from the commander or supervisor's perspective. Provides an overview of total fitness, defines physical fitness, outlines the phases of fitness, discusses various types of fitness programs, and presents evaluation criteria.

ARMY 401 Concepts of Military Management (3)

Course is comprised of three hours of lecture and two hours of leadership laboratory per week. An introduction to the military management system with special attention to the functions, organizations, and operations of military training, logistics and administration. The use of standardized staff formats in the development of plans and orders is emphasized from the standpoint of the leader with limited resources. Extensive use of standard staff procedures is emphasized in problem solving scenarios. One hour lecture and one hour lab (ARMY 401L) per week. Prerequisite: ARMY 302 or KU department approval.

ARMY 401L Army ROTC Lab (0)

Required ROTC lab. Must be taken in conjunction with ARMY 401.

ARMY 402 The Military Profession (3)

Course is comprised of three hours of lecture and two hours of leadership laboratory per week. A seminar on the military profession as an object of social inquiry. Focus is on the internal structure of the profession, current problems, and interaction with the larger American society. Seminar topics include but are not limited to the following: a historical perspective on the military profession; civil-military relations; social and political impact of military activities; military justice; professionalism versus careerism. One hour lecture and one hour lab (ARMY 402L) per week. Prerequisite: ARMY 401 or KU department approval.

ARMY 402L Army ROTC Lab (0)

Required ROTC lab. Must be taken in conjunction with ARMY 402.

ARMY 450 Military Analysis (1)

A study of present and future military operations; emphasis placed on analysis of problem. The student will defend his/her analysis through written and oral presentations. Prerequisite: Permission of the department chairperson.

Pre-Professional Studies

Pre-Dentistry

Biology Advisors

Professor John Mullican
john.mullican@washburn.edu

Associate Professor Andrew Herbig
andrew.herbig@washburn.edu

Assistant Professor Paul Wagner

paul.wagner@washburn.edu

Assistant Professor Tracy Wagner
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Chemistry Advisor

Professor Sam Leung
sam.leung@washburn.edu (sam.leung@washburn.edu)

Students preparing to enter dental school should consult an advisor during their first year in college. Students should consult the catalog of the dental school(s) to which they plan to apply. Specific admissions requirements on each dental school may be found at www.adea.org (<http://www.adea.org>) but in general students must have a four-year degree with strong foundations in the natural sciences (e.g., biology, chemistry, and physics) with coursework in the social sciences, humanities, applied arts, and business being strongly recommended. In general, the program for the pre-dental student is similar to that for pre-medical students.

Pre-Law

College of Arts and Sciences Advisor

Associate Professor Linsey Modellmog, Advisor & Coordinator
linsey.moddemog@washburn.edu

School of Applied Studies Advisor

Associate Professor Amy Memmer
amy.memmer@washburn.edu

School of Business Advisor

Professor Rosemary Walker
rosemary.walker@washburn.edu

The student preparing to enter Washburn School of Law or any quality school of law should seek a broad undergraduate education which should include courses in English, economics, history, political science, philosophy, and sociology. Courses which develop the ability to write and speak clearly and correctly, as well as those courses which will help to attain exactness of thought and the ability to make valid analytical comparisons and differentiations, are desirable. Familiarity with American and English history and the government of those countries is necessary in a proper background for the study of law. The student interested in pre-legal education should seek the advice of a pre-law advisor early in his/her college career. Pre-law advisors may be found in a number of departments including Political Science, History, Criminal Justice, Philosophy, Psychology, English, Communication, and the School of Business. You should begin preparing for the LSAT early in your college career. Extracurricular activities such as Washburn Student Government Association, the Washburn Transformational Experience, Debate, Mock Trial, and the Pre-Law Club can help students gain valuable experience outside the classroom in preparation for law school. For pre-law related activities, contact Dr. Linsey Modellmog, Coordinator (linsey.moddemog@washburn.edu) or see www.washburn.edu/political-science (<http://www.washburn.edu/political-science/>). School of Applied Studies or School of Business students can contact their School pre-law advisor.

Washburn has an early entry program for our students that desire to enter our law school early. Look for the Law Early Admission Program link at the political science link above.

Law Early Admission Program

The Law Early Admission Program (LEAP) allows Washburn undergraduates to apply, and if accepted, enter Washburn's law school during what would have been their last year of undergraduate work and apply courses toward a law degree to the completion of the undergraduate degree.

There are two different LEAPs and eligibility for each depends on the undergraduate program.

LEAP for College of Arts and Sciences (CAS) Degree Programs

If accepted to this LEAP, students earning degrees from the College of Arts and Sciences may enter Washburn's School of Law during what would have been their last year of undergraduate work. The program allows for the last 29 credits of undergraduate work (elective credits) to be satisfied by the successful completion of the first year of law school (or 29 credits). LEAP was primarily designed for incoming freshmen as it requires careful consultation with an advisor to make the credits work out right. However, theoretically, any enrolled Washburn student may apply for entry into LEAP if they can make the credit requirements. Not all majors can LEAP to Law School, please see the Pre-Law Coordinator or one of the School advisors for advising or the Washburn LEAP webpage for a list of applicable majors.

CAS LEAP Admission Requirements

- A high school GPA of 3.0 or higher on a 4 point scale; or
- An ACT score in the top quartile (28-36) or a comparable SAT score; or
- A GPA of 3.0 for current Washburn or transfer students with at least 15 or more undergraduate credit hours; and
- An application and an acceptance decision by the pre-law coordinator.

CAS LEAP Completion Requirements

- Maintain a 3.0 undergraduate GPA
- Take the LSAT as administered by the Law School Admissions Council (LSAC)
- Apply to Washburn Law by the deadline for the semester that the student plans to attend
- Earn admission to Washburn Law, including mandated character and fitness review that is necessary for admission to both law school and the bar
- Complete all requirements for undergraduate graduation (see more information below, excluding the remaining 29 credit hours to be completed with law school credits)

LEAP for School of Business (SOBU) and School of Applied Studies (SAS) Degree Programs

If accepted to this LEAP, students earning degrees from SOBU or SAS may enter Washburn's School of Law during what would have been their last semester of undergraduate work. The program allows for the last 14 or 15 credits of undergraduate work (elective credits) to be satisfied by the successful completion of the first 14 or 15 credits of law school. LEAP was primarily designed for incoming freshmen as it requires careful consultation with an advisor to make the credits work out right. However, theoretically, any enrolled Washburn student may apply for entry into LEAP if they can make the credit requirements.

SOBU and SAS LEAP Admission Requirements

- An ACT score in the top quartile (28 or higher) or a comparable SAT score; or
- A high school GPA of 3.5 or higher on a 4-point scale; or
- An application and an acceptance decision by the pre-law coordinator.

SOBU and SAS LEAP Completion Requirements

- Maintain a 3.0 undergraduate GPA
- Take the free diagnostic LSAT each semester.
- Complete all requirements for undergraduate graduation (see more information below, excluding the remaining 15 credit hours to be completed with law school credits)

Successful completion of the SOBU and SAS LEAP requires that all university, college, and major requirements for graduation be met, leaving 14 or 15 credits of electives to be satisfied by first-year law credits. Students contemplating LEAP should also be aware of the ABA's requirement of demonstrated character and fitness to practice law.

LEAP students will apply to our law school like any other applicant. Successful completion of LEAP does not guarantee admission to our law school. LEAP students should score at or above the median LSAT and GPA for the 1L class admitted to Washburn University School of Law in the prior fall semester.

LEAP Benefits

- Washburn Law will provide LEAP students with a mentor from the Washburn Law faculty, or from the local bench or bar, to assist the student with preparation for law school and a career in the law
- Fee waiver for application to Washburn Law
- In-state tuition fees for each year of enrollment
- A full-tuition scholarship for the first year of law school at Washburn University
- Minimum of \$5,000 scholarship per year for years two and three of law study, contingent on successful academic progress

Pre-Medicine

Biology Advisors

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Associate Professor Susan Bjerke
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Assistant Professor Paul Wagner
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Assistant Professor Tracy Wagner
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Chemistry Advisor

Professor Sam Leung
sam.leung@washburn.edu

Students preparing to enter medical school should consult an advisor during their first year in college. Most medical schools prefer a four-year degree preparation with strong foundations in the natural sciences (e.g., biology, chemistry, and physics), the humanities and social sciences (e.g., anthropology, sociology and psychology) and English. Additionally,

pre-medical students should acquire significant experience in a health care environment involving direct patient contact, and become active in appropriate service activities. The Medical College Admission Test is required for students applying to either an allopathic (M.D.) or osteopathic (D.O.) medical school and is typically taken shortly after the junior year in college. The pre-medical student is urged to consult a chosen medical school before the junior year in college. The exact course of study applicable to any student's background can best be established in consultation with a pre-medicine advisor.

Pre-Nursing

Louisa Schurig, Advisor
louisa.schurig@washburn.edu (louisa.schurig@washburn.edu)

Washburn University offers the four-year baccalaureate program in Nursing and pre-nursing course requirements for students preparing to enter the Nursing Major. The Bachelor of Science degree prepares the graduate to write the national licensure exam (NCLEX) to become a registered nurse.

Pre-nursing students interested in the Washburn Bachelor of Science Degree in nursing should schedule academic advisement in the School of Nursing (Petro Allied Health Center, Rm 203).

Pre-Pharmacy

Biology Advisor

Professor Matt Arterburn
matt.arterburn@washburn.edu

Chemistry Advisor

Associate Professor Seid Adem, Advisor
seid.adem@washburn.edu

Most students in the pre-pharmacy program transfer to the School of Pharmacy at the University of Kansas, which requires about 68 hours (approximately two years) of college level pre-professional studies prior to admission to the professional program. The exact course of study applicable to any student's background can only be established in consultation with the pre-pharmacy advisor. Students normally complete the Associate of Arts in Laboratory Science as part of the pre-pharmacy curriculum.

Pre-Veterinary Medicine

Assistant Professor, Benjamin Reed, Advisor
benjamin.reed@washburn.edu

Most state schools of veterinary medicine have preferred admission of residents of that state, and certain numbers of applicants from cooperating states lacking veterinary schools. Private schools accept applications from all qualified students. Kansas residents would ordinarily apply to the Kansas State University School of Veterinary Medicine. All of the required Pre-Veterinary courses can be taken at Washburn. Practical experience with animals, especially in a veterinary context, is important in making successful application. Program details are available from the pre-veterinary advisor or the Department of Biology.

Academic Policies

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Student Responsibilities

Attendance

The value of a college education is enhanced by full participation and attendance in class activities. Because classroom activities are intended to assist the students in the learning experience, it is expected that they will attend class sessions whenever possible. There are certain kinds of class sessions in which it is impossible to carry on the work of the class unless the student is present. For this reason, each member of the faculty has the prerogative of establishing specific attendance regulations which, in the instructor's opinion, are best suited to the course. There is no University wide attendance policy.

An instructor, after due notice to the student, may request withdrawal of the student from a course because of nonattendance through the same date as the last day a student may withdraw from a course. This would **not** absolve the student of financial responsibility for tuition/fees for the course in question.

Student Conduct

The University expects conduct of all students which is consistent with the law and with generally accepted principles of academic behavior. The University retains the right to secure the safety of individuals, the protection of property, and the continuity of the educational process. Any interference with access to University facilities, interruptions of educational activities, or damage to property exceeds permissible bounds. Although remedies are available through local law enforcement bodies, the University may elect to impose its own disciplinary sanctions. Information regarding student rights and the rules governing student behavior are found in the Washburn University Student Conduct Code. It is available online at www.washburn.edu/student-conduct (<http://www.washburn.edu/student-conduct/>) and in the Student Life Office, Morgan Hall Room 240D.

Academic Impropriety Policy

Excerpts of this policy are printed each semester in the schedule of classes. A complete copy of the Academic Impropriety Policy can be

found in Section 7 of the Faculty Handbook, www.washburn.edu/faculty-handbook (<http://www.washburn.edu/faculty-handbook/>).

Authorized Academic Load

Normally, the maximum number of hours permitted for undergraduate students is 20 per semester. Correspondence, extension, and evening courses taken concurrently are counted as a part of the total load. For summer sessions, the maximum number of hours permitted concurrently is 9, provided that no more than 6 are taken in the same early or late session or shorter term. Superior students may petition the appropriate Dean for permission to enroll in more hours. Normally the term superior will be construed to mean a cumulative grade point average of at least 3.0.

Official E-Mail Address

The student's Washburn University e-mail address will be the official address used by the University for relaying important messages regarding academic and financial information and the University will consider this medium as an official notification for important information. The student university e-mail address may also be used by instructors to provide specific course information.

- Login to your Office 365 email at <https://outlook.washburn.edu>

Students who choose to have their email forwarded to a private (unofficial) email address outside the official university network address, do so at their own risk. The University is not responsible for any difficulties that may occur in the proper or timely transmission or access of email forwarded to any unofficial email address, or related issues. It is the student's responsibility to ensure that the official Washburn e-mail box does not exceed the message quota resulting in the inability of e-mail messages to be accepted into the mailbox.

- Office 365 training is available at <https://www.washburn.edu/its/office-365/training.html>
- An ITS Quick Start Guide can be found at: <https://www.washburn.edu/its> (<https://www.washburn.edu/its/>) in the Getting Started section. <https://washburn.edu/its/files/ITS-Quick-Start-Guide.pdf>. (<https://washburn.edu/its/files/ITS-Quick-Start-Guide.pdf>) This guide will give you information on account access, password management, email and calendar, online course access (D2L), wireless networks, technology support and more.

Student Success Week

Success Week for undergraduate students is designated as the five week days preceding the first day of scheduled final examinations each Fall and Spring semester. Success Week is intended to provide students ample opportunity to prepare for final examinations. Additional information regarding Success Week can be found at the following link (<https://www.washburn.edu/faculty-staff/faculty-resources/faculty-handbook/faculty-handbook-section-6.html#xxv>).

Withdrawals

A student who wishes to withdraw from a course may do so on the web when it is available for registration/enrollment. The semester registration PIN is required to complete this process. Specific instructions will be available in the appropriate Registration Information Guide.

When web registration is not available, students must complete a Schedule Change Form and submit it to the Student One-Stop (SOS)

where the information will be processed and the form signed. The student will be given a copy documenting these transactions. The date of withdrawal is determined by the day the withdrawal form is processed in the Student One-Stop (SOS). Students who cannot complete the withdrawal process on campus must notify the University of their intent to withdraw by sending an e-mail to enrollment@washburn.edu using their MyWashburn account or by mailing or faxing a signed request to the Student One-Stop (SOS). To verify that the withdrawal process has been successfully completed, students should access their MyWashburn account online and view the "Detail Course Schedule" link on the Student Academics Tab. The status will indicate withdrawn and the date the course was withdrawn successfully.

The responsibility for initiating and clearing withdrawal notices with the Student One-Stop (SOS) rests with the student, not the faculty. Failure to officially withdraw results in the recording of "F" grades at the end of the semester/term and responsibility for all assessed charges.

For semester courses a student may withdraw through the second week with no recorded grade. From the third through the eleventh week a "W" is recorded for any dropped course. Beginning with the start of the twelfth week, there are no withdrawals, and a grade will be assigned for the course.

Specific dates for withdrawal in the summer are listed in the Registration Information Guide. The dates vary according to the length of session. Withdrawal procedures/regulations are the same as stated above.

Similar dates/deadlines for short term courses can be found on MyWashburn by selecting the Student Academics Tab and then selecting "Last Day" deadlines for courses under the Registration section of Student Self-Service.

Complete Withdrawal

Students planning to withdraw from all registered courses for a given term must email total-withdrawal@washburn.edu or contact the Student One Stop (Morgan Hall Visitor Center). Students are not able to withdraw themselves from the last course on their schedule via online self-service. If you are unable to come to campus, you still must email total-withdrawal@washburn.edu or contact the Student One Stop at 785-670-2162. Find more information at <https://www.washburn.edu/registrar/withdrawals-individual-course-and-complete-term.html> (<https://www.washburn.edu/registrar/withdrawals-individual-course-and-complete-term.html#:~:text=If%20you%20are%20unable%20to,contacting%20the%20Student%20One%20Stop>)

Medical Withdrawal

If a student is unable to complete a semester or term due to serious illness or injury, the student may withdraw him/herself from courses by the Last Day to withdraw from that semester. A Medical Withdrawal **does not change** the student's financial obligation to the University.

For withdrawals with a medical basis after the last day to withdraw, the student must present an affidavit signed by a licensed health care provider, certifying the circumstances. This affidavit, as part of a Medical Withdrawal information packet, is available in the Student One-Stop (SOS) in Morgan Hall, 101A. The completed forms should be directed to the Office of the Vice President for Academic Affairs (VPAA), Bradbury Thompson Alumni Center Suite 200, for consideration by the University Medical Withdrawal Committee. If the request relates to a semester other than the current one, the Medical Withdrawal Committee must also approve the academic withdrawal request. To be eligible to apply for a

medical withdrawal, students must apply within the span of one calendar year from the end of the semester for which they are requesting a medical withdrawal.

Based on an approved request, the student will be withdrawn from all his/her courses, and will receive a "W" on his/her transcript for those courses. There will be **no refund** for this procedure. Only withdrawals processed during the published refund schedule (see previous section) generate any kind of refund of tuition. A student who believes the circumstances surrounding the withdrawal were unavoidable and extraordinary should contact the Bursar to arrange a payment schedule.

Military Withdrawal

Students who are called to military active duty and must withdraw from classes as a result should contact the Student Life Office, Morgan Hall 240D, Phone: 670-2100, prior to deployment. The Student Life Office requires that the student submit a typewritten narrative requesting complete withdrawal, a definition of their military orders, a copy of the military orders and a completed Washburn University Schedule Change Form. Those items are forwarded to the University Registrar for complete withdrawal.

Major/Minor/Progress Declaring/Changing A Major or Minor

In order to ensure the early and proper selection of a field of concentration, students seeking a baccalaureate degree are required to file a declaration of major by the time they have completed 60 hours. Candidates for the associate degree must file the declaration of major at the completion of 30 credit hours. A student is free to change majors at any time, or to add a second or third major. To declare or change a major or minor a student must visit their academic advisor who will electronically submit the declaration(s) of program to the University Registrar's Office via the Declaration of Program system.

Declaring an Optional Minor

Students may complete a minor area of study from a discipline other than his/her major degree field. Such a minor is optional and not to be confused with any department's required minor or required correlated courses. A minor will consist of no less than 15 hours in one discipline as specified by the department. A minimum of 6 hours must be at the upper division level. Students must have a grade of C or better in each course in the optional minor. The course content of the minor is selected in consultation with an advisor in the minor department or program. Prior to graduation, the department or program chair must certify the completion of the minor to the University Registrar's Office.

Monitoring Progress Toward Degree Completion

Students are expected to monitor their progress toward degree completion periodically throughout their tenure at Washburn University by conducting online degree audits through their MyWashburn account. There are two options on the Academic Advising channel on the Students tab depending on the student's catalog year. Select the correct option to process the degree audit. If potential problems are identified (e.g., missing transfer work, unposted course substitutions, etc.), students should meet with their advisors as soon as possible to resolve these issues in a timely fashion.

Degrees

Degree Conferment

Washburn University confers degrees three times a year to students who have met all requirements as of the last day of final examinations for each semester/term: Fall semester, Spring semester, and the Summer term. The summer term is comprised of several sessions or short courses, but the degree will be conferred at the end of the term. All work not completed by the last day of finals for each semester/term will result in a graduation date of the following semester/term. If a previous "incomplete" has not been finalized, it may be a later semester/term. If a student is concurrently enrolled at another institution and intends to use the work to complete graduation requirements at Washburn, an official transcript from the institution must be received within two weeks of Washburn's last final examination date of the graduating semester/term in order to have the degree conferred in that same semester/term.

The University holds commencement ceremonies twice a year, at the end of the Fall and Spring semesters. Students who are scheduled to complete final requirements for a degree during the following Summer term may be permitted to participate in the Spring commencement. Such candidates must have submitted an Application for Graduation located on the Student Academics tab of MyWashburn. Additional information and ceremony details can be found at www.washburn.edu/commencement (<http://www.washburn.edu/commencement/>).

Application for Graduation

Students planning to complete an Associate, Baccalaureate, Master degree, Doctorate or a Certificate must submit an online Application for Graduation located on the Student Academics tab of MyWashburn in order to initiate a graduation check. The graduation check will be completed early in the semester/term in which the student plans to graduate. The online application should be submitted in September for the Fall semester and in February for the Spring semester and Summer term (see the academic calendar for the exact dates). A student is not a candidate for degree until the student has submitted the online Application for Graduation. Students who do not graduate in the semester/term for which they have applied, must contact the University Registrar's Office via audits@washburn.edu to update their semester/term of graduation. Hard copy Application for Degree Forms will be available in the Student One Stop (SOS) or online by accessing www.washburn.edu/registrar (<http://www.washburn.edu/registrar/>) for those students whose academic programs or registration status preclude them from participating in the online process (for example if they are not able to declare their degree/certificate).

Posthumous Degree

Upon the recommendation of the deceased student's major department or school, and upon approval of the Dean of the College or School, the Vice President for Academic Affairs, the President, and the Board of Regents, a degree may be awarded posthumously provided that the student:

- was in good academic standing at the time of death, and,
- unless exceptional circumstances exist, had achieved senior status, if the student was enrolled in a baccalaureate degree program; or
- was within one semester of completion, if the student was enrolled in an associate degree program; or

- was in the final year, if the student was enrolled in a graduate degree program.

Student Records

Policy, Procedure, and Records

Washburn University maintains various student records to document academic work and to record interactions with University staff and officials. The Family Educational Rights and Privacy Act of 1974 (FERPA) was enacted to protect each student's right to privacy and to provide each student the right to inspect and review his/her education records. This Act is also commonly known as the Buckley Amendment. A notice of this policy is published each semester/term in the Registration Information Guide and by email each semester to all students. For purposes of FERPA, "student" is defined as an individual who is or has been in attendance at Washburn University. At the University, an individual is considered "in attendance" on the day classes begin of the term a student is first enrolled.

Directory Information

In accordance with the Family Educational Rights and Privacy Act of 1974 (FERPA), the University may release to the general public certain information about the student which has been identified by the institution as directory information. The following items are considered directory information at Washburn University: student's name, photo, current address and phone number, permanent address and phone number, university assigned e-mail address, classification status (i.e. freshman, sophomore, etc.), major field of study, dates of attendance, honors and awards received, degrees and certificates received and dates awarded, enrollment level and status (full-time, half-time, less than half-time, undergraduate or graduate), most recent educational institution attended, participation in officially recognized activities and sports and height and weight of members of athletic teams.

Students may "opt out" of the disclosure of directory information by completing a form in the Student One-Stop (SOS). If a student "opts out", the University will not disclose directory information without the student's written consent. The "opt out" will remain in effect until the student submits a written revocation.

Types, Custodians and Locations of Education Records

With the exception of Directory Information as described above, student records are considered to be confidential. Only the custodians of the records, their designee, or their director/dean/vice president to whom that person reports has the authority to release the record. The following is a list of the types of records that the University maintains, their custodians, and their locations.

1. (Official) Academic Records: University Registrar, Morgan Hall 102B
2. Academic Records: Deans of Schools/College and/or Departmental Offices, Specific Locations listed in the Campus Directory
3. Academic Impropriety Records: Vice President for Academic Affairs Office, Bradbury Thompson Alumni Center 200
4. Admissions Records: Director of Admissions, Morgan Hall 100
5. Business Records: Bursar, Morgan Hall 103B
6. Career Services: Coordinator of Career Services, Morgan Hall 105H
7. Testing and Placement Records: Center for Student Success and Retention, Mabee Library 201

8. Financial Aid Records: Director of Financial Aid, Morgan Hall 103K
9. International Student Records: Office of International Programs, International House
10. Medical Records: Director of Student Health Services, Morgan Hall 140
11. Residence Hall Records: Director of Residential Living, Living Learning Center
12. Student Disciplinary Records: Student Life Office, Morgan Hall 240D
Traffic and Security Records: Chief of Police, Morgan Hall 135
13. Veteran Records: University Diversity and Inclusion, Morgan Hall 105

Student Access to Education Records

Students may inspect, review and/or receive copies of their education records upon written request to the appropriate record custodian with the exceptions noted below. The written request submitted to the record custodian or appropriate University staff should identify as precisely as possible the record or records he or she wishes to inspect. The record custodian or appropriate University staff must comply within a reasonable period of time, not to exceed 45 days from the receipt of the request. Copies of records accessible to the student will be provided at the student's expense. The charge to the student for any such records is 25 cents per page.

When a record contains information about more than one student, the student may inspect and review only the records which relate to him or her. If any question arises as to the identity of the requesting student, the student shall be asked to provide photo identification.

Washburn University reserves the right to refuse to permit a student to inspect or have access to the following records:

1. The financial statement of the student's parents.
2. Letters and statements of recommendation for which the student has waived his or her right of access, or which were placed in file before January 1, 1975.
3. Records connected with an application to attend Washburn University or a component unit of Washburn University if that application was denied.
4. Medical and counseling records. These records may be released, however, to other medical or psychological professionals at the written request of the student; and may be inspected by the patient at the discretion of the professional staff.
5. Law enforcement records.
6. Private notes of staff, faculty, and administrators.
7. Official transcripts of credit earned at other institutions which have been presented for admission or evaluation of credit and have become a part of the student's permanent record are not reissued or copies duplicated. Transcripts from other institutions, including the high school transcript and test scores, should be obtained from the original institution.
8. When a student is delinquent in a financial account to the University, has incomplete admission credentials, or about whom official disciplinary action has not been resolved, the appropriate university official may request that the student's record not be released. The effect of this action is that grade reports, transcripts, and diplomas/certificates are not released. In addition to these documents not being released, registration and enrollment at Washburn in subsequent semesters is not permitted.

Disclosure of Education Records or Personally Identifiable Information

The University will obtain written consent from the student before disclosing records or personally identifiable information from education records of the student, except in the cases of:

1. Directory Information, unless a student "opts out," as defined and explained above.
2. School officials who have a legitimate educational interest in the records. A school official is:
 - a. A person employed by the University in an administrative, supervisory, academic or research or support staff position.
 - b. A person employed by or under contract to the University to perform a special task, such as an attorney or auditor.
 - c. A student serving on an official committee, such as disciplinary or grievance committee.
 - d. A student employed by the university (through financial aid or departmental/administrative office) who assists another school official in performing his or her tasks.
 - e. A person serving on the Board of Regents.
3. A school official has a legitimate educational interest if the need to review an education record is in order to fulfill his or her professional responsibilities for the University.
4. Officials of another school in which a student seeks or intends to enroll.
5. Authorized representatives of the Comptroller General of the U.S., Attorney General of the U.S., the Federal Secretary of Education, or state or local education authorities in connection with an audit of federal or state-supported education programs or with the enforcement of or compliance with federal legal requirements relating to those programs.
6. Financial aid personnel in connection with a student's application for or receipt of financial aid as necessary to determine the eligibility, amount, or conditions of the financial aid, or to enforce the terms and conditions of the aid.
7. Organizations conducting certain studies for or on behalf of the University.
8. Accrediting organizations to carry out their functions.
9. Parents of an eligible student who claim the student as a dependent for income tax purposes.
10. Authorities to comply with a judicial order or a lawfully issued subpoena.
11. Appropriate parties in a health or safety emergency if necessary to protect the health or safety of the student or other individuals.
12. The final results of any disciplinary proceeding conducted by the University to the alleged victim of a crime of violence or non-forcible sex offense.
13. To the student him-or herself.
14. To a court in the context of a lawsuit between a student and the institution.
15. To parents of a student under 21 of a drug or alcohol violation.
16. The final results of a disciplinary proceeding against a student whom the University has determined violated an institutional policy of an alleged crime of violence or non-forcible sex offense.
17. Information about sex offenders or other individuals required to register.

18. University Police Personnel shall have access to student class schedules in an emergency situation.
- University Police Personnel will attempt to verify the identity of the person requesting information and the emergency situation. The class schedule will not be released to the requesting individual but a police officer will attempt to contact the student directly.
 - A record of each disclosure request must be made and maintained. The record should include the name and address of the requestor, date and time of request, and the nature of the emergency situation. These records of requests are considered part of the student's educational record.

Notice to Third Parties

The University must inform the parties to whom a student's education record or personally identifiable information is given that they are not permitted to disclose that information to another person (third party) without the written consent of the student and that the information is to be used only for the purpose(s) intended. Persons who receive a student's education record or personally identifiable information about the student may disclose such information to other persons only if the name of the additional persons and the legitimate interest of such persons is provided as a part of the original request.

Maintaining Education Records and Records of Requests and Disclosures

Each office that maintains education records shall adopt its own policy with regard to destruction of education records. No education record, however, may be destroyed if there is an outstanding request to inspect and review the record. Also, the record of requests for the disclosures of the education record and any explanation that are a part of the record must be maintained for as long as the education record to which it pertains is maintained.

Washburn University officials responsible for the various types of records will maintain a record of all requests for disclosure of information from a student's education records. The record will indicate the name of the party making the request, any additional party to whom it may be redisclosed, and the legitimate interest the party had in requesting or obtaining the information. The record of request is open to inspection of the student.

Records of requests and disclosures may not be maintained or may be maintained for only a limited time for:

- requests made by the student him/herself;
- requests for which the student has given written consent;
- requests made by school officials with legitimate education interests;
- requests for directory information; or
- disclosures to comply with a judicial order or lawfully issued subpoena.

Student's Right to Challenge Information Contained in Education Records

Students have the right to challenge the content of an education record that they believe inaccurate, misleading, or in violation of their privacy rights. No hearing under this policy shall be granted for challenging the underlying basis for a grade; however, the accuracy of its recording could

be challenged. Following are procedures for challenging the content of education records:

A student must ask the appropriate school official to change or modify the record by identifying the part of the record they want changed and specify why the information is inappropriate.

After researching the request, the Washburn University official may comply with the request and make the changes wanted in a reasonable time. If the school official decides not to comply, the student will be notified in writing of the decision and advised of his/her right to a hearing to challenge the information believed to be inappropriate.

All requests for a formal hearing by the student shall be directed to the appropriate Area Head and shall contain a concise written statement of the specific facts constituting the student's claim.

The **hearing will be conducted by a hearing officer** who is a University staff member but who does not have a direct interest in the outcome of the challenge and who shall be appointed by the appropriate Area Head or his/her designee. The hearing shall be held within a reasonable time of receipt of the student's request and the student shall be notified reasonably in advance by the hearing officer of the date, place and time of the hearing.

At the hearing, the student shall be afforded a full and fair opportunity to present evidence relevant to his/her claim and may, at his or her expense, receive assistance from any individuals of his/her choice.

The hearing officer shall make a written recommendation to the appropriate Area Head with written findings of facts concerning the student's request within ten working days of the hearing. The appropriate Area Head or his/her designee shall notify the student in writing of the decision within an additional fourteen working days of receipt of the hearing officer's report. The decision must include a summary of the evidence and the reasons for the decisions.

If the appropriate Area Head is adverse to the student's request, the student will be notified that he/she has a right to place in the record a statement commenting on the challenged information and/or a statement setting forth reasons for disagreeing with the decision.

The statement will be maintained as a part of the student's education records as long as the contested portion is maintained. If Washburn University discloses the contested portion of the record, it must also disclose the student's summary statement.

If the student's challenge to the content of a given record is successful, the University shall amend the education record accordingly and so inform the student in writing.

Complaints

A student who believes the University has not complied with federal law or regulations should check first with the office involved or the Area Head to which it reports. If the student wishes to file a complaint with the federal government concerning the University's failure to comply with the Privacy Act, he/she may send a written complaint to:

The Family Policy Compliance Office
400 Maryland Avenue, S.W.
Washington, D.C. 20202

Questions

Questions regarding FERPA may be directed to:

The University Registrar
102 Morgan Hall
785-670-1074

Campus Telephone Directory Information

Listings in the online student directory are compiled from information supplied by students to the University.

- The student is responsible for updating and providing correct information for online directory listings.
- Information may be updated at any time during the year.
- The online directory listings are updated daily.
- To update online directory information, go to the View/Update Campus Directory Profile on the Student Life tab of MyWashburn.
- Currently enrolled students may choose to withhold information from the online university directory.

Information may be excluded at View/Update Campus Directory Profile on the Student Life tab of MyWashburn.

Students who withhold information from the online university directory are not “opting out” of the disclosure of directory information as permitted by FERPA. Students must complete a form in the Student One-Stop (SOS) to “opt out” for that purpose.

Transcripts

A transcript is an official copy of a student’s permanent academic record. Official transcripts are available from the Student One Stop (SOS). Each transcript costs \$8.00. A transcript request must be written and the fee must be paid in advance. A transcript request will not be processed for students who have financial or other obligations to the University.

Transcripts may be requested in person upon showing some form of photo identification at the Student One Stop (SOS) during regular business hours.

You may conveniently request your Washburn transcript online through the National Student Clearinghouse system from the University Registrar’s Office home page at the following link (https://washburn.edu/student-life/policies-forms/forms/Transcript%20Request%20Form%20rev%201_2017.pdf). The National Student Clearinghouse transcript secure ordering system directs you through placing your order, including the delivery options and fees. You may request that your transcript be a paper, official mailed version or an electronic, official pdf transcript to be transmitted. Order updates are sent to you via email and text messages. You can also track your transcript order online and pay for your transcript with a major credit or debit card.

Current students may also request transcripts by logging into MyWashburn and accessing the link on the Student Academics tab. The “Transcript Request and Enrollment Verification” link is located under University Registrar links.

Transcripts may also be requested through the mail. A mailed request must be sent to the Office of the University Registrar. The request should include the following information: current name and other names while

attending Washburn University, student signature, identification number/ social security number, return address for receipt purposes, current phone number, date of birth, date of attendance at Washburn, the number of transcripts requested, complete and accurate addresses where each transcript is to be sent, and \$8.00 for each transcript requested paid at the time of request.

Checks should be made payable to Washburn University.

A Transcript Request form may also be obtained by printing it at www.washburn.edu/registrar (<http://www.washburn.edu/registrar/>). It may be returned to the Student One Stop (SOS) by mail, fax, or in person by following the relative procedures described in this section.

Definition of Student Credit Hour

Washburn University conforms to the Council for Higher Education Accreditation (CHEA) proposed definition of a student credit hour which states: “For every credit hour awarded for a course, the student is typically expected to complete approximately one hour of classroom instruction, online interaction with course material, or direct faculty instruction and a minimum of two additional hours of student work each week for approximately 15 weeks for one semester or the equivalent amount of work over a different amount of time.” This credit hour definition is to be included in the Master Syllabus attached to each course syllabus. However, not all academic activities precisely match this definition (e.g., internships, student teaching, laboratory work, online courses, study abroad, and independent study). In such credit-bearing activities, the amount of student work required per credit hour will match as closely as possible the standard definition as defined above.

1. Internship/Externship/Practicum

1 Credit Hour = A minimum of three hours per week engaged in the supervised field placement for 15 weeks or equivalent over the course of a term for the average student.

2. Independent Study

1 Credit Hour = Meet with faculty member and/or engage in related academic activity for 3 hours per week for 15 weeks or equivalent over the course of a term for the average student.

3. Study Abroad

Students who enroll for semester- or year-long study abroad experiences are awarded credit based on the standard definition of a credit hour provided by CHEA.

4. Faculty-Led Travel Course

A faculty-led travel course is a credit-bearing course in which the majority of the academic work is accomplished through group study and travel external to the Washburn University campus. Normally, short-term programs are arranged for 1 to 3 credit hours. Typical activities included in determining the credit hours awarded for faculty-led travel courses are: pre-trip academic and cultural awareness sessions; on-site formal/structured learning; immersion activities; cultural interactions; group and individual reflection activities; student presentations; and service learning projects. Determination of the number of credit hours granted is based on the standard definition of a student credit hour espoused by the university (completion of approximately one hour of classroom instruction, online interaction with course material, or direct faculty instruction and a minimum of two additional hours of student work each week for approximately 15 weeks for one semester or the equivalent amount of work over a different amount of time).

5. Online/Hybrid Class

Online and hybrid courses must meet the same credit hour requirements as face-to-face courses. Online and hybrid courses must account for a minimum of 3 hours per week per credit hour for 15 weeks or equivalent over the course of a term for the average student. Course hours should involve faculty-led activities and engagement pertinent to the content of the course. Outcomes and assignments across multiple modes of teaching must be equivalent.

6. **Laboratory Course**

1 Credit Hour = A minimum of two (2) class hours of work each week in a laboratory under the supervision of a lab supervisor/instructor and an expectation of one (1) class hour of additional out-of-class student work each week.

7. **Credit for Prior Learning**

Credit for Prior Learning is awarded in accordance with the HLC criteria for accreditation, American Council on Education (ACE) and the Council for Adult and Experiential Learning (CAEL) Standards, and the CPL quality check list as recommended in the Kansas Credit for Prior Learning Handbook (April, 2016)

Note: As studio and ensemble work varies between fine art disciplines, assignment of credit hours should be according to discipline standards and/or accreditation criteria while meeting the main CHEA standard adopted by the University.

Grade Reports

At the end of the Fall and Spring semesters and the early, late, and full sessions of the Summer Session, final grades are submitted by instructors via the web. The grades become a part of the student's permanent record. Grades will be made available for viewing on the web after the University Registrar's Office completes the end of semester/session processing. Grades will not be mailed nor can they be secured by phone. Students may print their screen to have a written copy of their grades.

Information on graduation and retention rates may be requested from the Strategic Analysis and Reporting office, Bradbury Thompson Alumni Center, (785) 670-1645.

Diplomas

Diploma Distribution

Diplomas will be available approximately two months after each semester/term. Diplomas may be picked up in the Student One Stop (SOS), Morgan Hall, during regular business hours. Photo identification must be presented to obtain your diploma. Students may have diplomas mailed by completing the Diploma Mailing Request Form in the Student One Stop (SOS). Students may also obtain the Diploma Mailing form by printing it at www.washburn.edu/registrar (<http://www.washburn.edu/registrar/>). After printing and completing the form, return it to the Student One Stop (SOS) by mail with the appropriate fee or by bringing it to the office in person. The fee for mailing a diploma is \$7. Diplomas are not issued if the student has outstanding financial obligations to the University.

Diploma Replacement

A diploma may be replaced providing a request is made in writing. The Diploma Replacement Form is available in the Student One Stop, Morgan Hall, during regular business hours or it may be obtained by printing it at www.washburn.edu/registrar (<http://www.washburn.edu/registrar/>).

The same procedures for returning the form may be used as listed under "Diploma Distribution." The replacement processing fee is \$30.

Diploma Designations

Majors and minors are not designated on the diploma; however, they are reflected on the transcript. If a student adds a major/minor to a degree after the diploma is issued, the additional designation will be reflected on the transcript. An additional diploma will not be issued. Only Latin honors (Summa Cum Laude, Magna Cum Laude, and Cum Laude) are designated on bachelor degree diplomas. In addition to Latin Honors, Stoffer Honors, Departmental and School Honors, University Honors and LINC honors are only posted on the transcript.

Credit for Prior Learning

Recognizing that individuals gain knowledge outside a traditional postsecondary environment, Washburn University maintains a comprehensive Credit for Prior Learning (CPL) program. CPL may take the form of postsecondary credit or advanced standing toward further education. Postsecondary level credit is the optimal outcome. The University may grant credit through national/international examinations, university department examinations, and/or prior military training. To gain additional information regarding CPL, students should contact the Center for Prior Learning and Testing (<https://www.washburn.edu/academics/center-student-success/testing/>) in Mabee Library.

Students must be either currently enrolled at Washburn University or former students of Washburn University in order to have credit awarded and posted to their transcripts. Specific information about the different types of examinations is provided below.

National Examinations

College Entrance Examination Board (CEEB): Advanced Placement Examinations

The Advanced Placement exams are prepared, scored and reported by the College Entrance Examination Board. Students should seek information and obtain registration materials through appropriate high school counselors or other secondary school officials.

This program is designed for high school seniors planning to enter college and is administered in conjunction with Advanced Placement courses taught in the high schools. The scores are reported to the University by CEEB. Appropriate credit or advanced placement is awarded at the time of enrollment in the University. When credit is awarded it may be applied to meet degree requirements. When advanced placement is awarded, a student is advanced to a higher level college course without being required to take a lower level prerequisite. Depending on departmental policy and the examination scores which are achieved, an academic department may award either credit or advanced placement or both to a student. No entry is made on the college transcript for scores which are lower than those determined to be satisfactory by the Washburn academic departments.

Students may have Advanced Placement test scores obtained in high school reported to the University for evaluation. Credit and/or advanced placement are awarded to students who have received a score of three (3), four (4), or five (5). Currently a student may be awarded college credit hours in the subjects listed below as follows:

AP Subject	Score	Award	Hours	Gen Ed
Art-2D Design	3+	AR 120	3	GEHU
Art-Drawing I	3+	AR 140	3	GEHU
Art History	4+	AR 101	3	GEHU
Biology	3+	BI 100	3	GENS
Calculus AB	3	Consult Chair		
Calculus AB	4+	MA 151	5	GENS
Calculus BC	3	MA 151	5	GENS
Calculus BC	4+	Consult Chair	10>	
Chemistry	3+	CH 101 or	3	GENS
		CH 121 or	5	GENS
		CH 151	5	GENS
Chinese Lang/ Culture		No equivalent		
Comp Govt	3+	PO 106	3	GENS
Computer Sci A		No equivalent		
Computer Science Principles		No equivalent		
English Lit	3+	EN 135	3	GEHU
English Lang	3+	EN 101	3	
Environmental Science		No equivalent		
European History		No equivalent		
Human Geog	3+	GG 101	3	GENS
Italian Lang/ Culture		No equivalent		
Japanese Lang/ Culture		No equivalent		
Latin		No equivalent		
Microecon.	3+	EC 200	3	GENS
Macroecon.	3+	EC 201	3	GENS
Mod. Foreign Language	3	FR 101 or	4	
		GE 101 or	4	
		SP 101	4	
Mod. Foreign Language	4+	FR 101/FR 102 or	8 ¹	GEHU (FL 102) ²
		GE 101/GE 102 or	8 ¹	GEHU (FL 102) ²
		SP 101/SP 102	8 ¹	GEHU (FL 102) ²
Music Theory	3	MU 215	3	
Music Theory	4+	MU 215 and	3	
		MU 217	1	
Physics 1	4	PS 101	3	GENS
Physics 2		No equivalent		
Physics C: Elec & Magnetism		No equivalent		
Physics C: Mechanics		No equivalent		
Psychology	3+	PY 100	3	GENS
Research		No equivalent		
Seminar		No equivalent		
Span Lit/Culture		No equivalent		
Statistics	3+	MA 140	3	GENS
Studio Art		No equivalent		

US Govt/Politics	Score	Award	Hours	Gen Ed
US History	3	HI 111 or	3 ³	GENS
		HI 112	3 ³	GENS
US History	4+	HI 111 and	3 ⁴	GENS
		HI 112	3 ⁴	GENS
World History	3	HI 100 or	3 ⁵	GENS
		HI 101 or	3 ⁵	GENS
		HI 102	3 ⁵	GENS
World History	4+	2 of 3 Courses:	6 ⁶	GENS
		HI 100 or		GENS
		HI 101 or		GENS
		HI 102		GENS

¹ 8 hours of credit will be granted after completion of FR 201 Intermediate French I, GE 201 Intermediate German I, or SP 201 Intermediate Spanish I with a C or better.

² May count for humanities general education credit except for Bachelor of Arts degree.

³ After completion of HI 111 History of the United States through the Civil War or HI 112 History of the United States since the Civil War with C or better.

⁴ After completion of Upper Division American History course with C or better.

⁵ After completion of HI 100 Survey of Early World History, or HI 101 Changing World History: Traditions and Transitions, or HI 102 Modern World History with C or better.

⁶ After completion of Upper Division World History course with C or better.

International Baccalaureate (IB) Diploma Program

Washburn University recognizes the International Baccalaureate (IB) Program. Students should seek information and obtain registration materials through appropriate high school counselors or other secondary school officials. This program is designed for high school juniors and seniors planning to enter college and is administered in conjunction with International Baccalaureate courses taught in high schools.

At the time of enrollment in the University, official transcripts should be forwarded to the University Registrar in order to receive appropriate credit. Credit is awarded on a course-by-course basis by academic departments depending on departmental policy and the examination scores which are achieved. No entry is made on the college transcript for scores which are lower than those determined to be satisfactory by the Washburn academic departments.

These score equivalents are under review and subject to change.

IB Subject	Score	Award	Hou Gen Ed
Biology	4-6 (SL)	BI 100 and	3 GENS
		BI 101	2 GENS
	7 (SL)	BI 102	5 GENS
	4-5 (HL)	BI 100 and	3 GENS
		BI 101	2 GENS
	6 (HL)	BI 102	5 GENS
	7 (HL)	BI 102 and	5
		(BI 105 or BI 110)	4 ¹
Chemistry	4-7 (SL)	CH 101	3 GENS

	4 (HL)	CH 121	5	GENS
	5-7 (HL)	CH 151	5	GENS
Comp Science	4-7 (SL)	CM 111	3	
	4-7 (HL)	CM 111	3	
English A1	4-7 (SL)	EN 101	3	
	4-6 (HL)	EN 101	3	
	7 (HL)	EN 101 and EN 135	3	GENS GEHU
Foreign Lang B	4-7 (SL)	FL 102	4 ²	GEHU
	4-7 (HL)	FL 201	4	GEHU
Geography	4-7 (SL)	GG 101	3	GESS
	4-7 (HL)	GG 101	3	GESS
History	4-7 (SL)	HI 100	3	GESS
	4-7 (HL)	HI 102	3	GESS
ITGS	4-7 (SL)	CM 299	3 ³	
	4-7 (HL)	CM 299	3 ³	
Mathematics	4-7 (SL)	MA 116	3	
	4-6 (HL)	MA 151	5	GENS
	7 (HL)	MA 151 and MA 152	5	GENS
Music	4-7 (SL)	MU 100	3	GEHU/CP
	4-7 (HL)	MU 100	3	GEHU/CP
Philosophy	4-7 (SL)	PH 100	3	GEHU
	4-7 (HL)	PH 100	3	GEHU
Physics	4-7 (SL)	PS 101	3	GENS
	4-7 (HL)	PS 261 and PS 262	5	GENS
Psychology	4-7 (SL)	PY 100	3	GESS
	4-7 (HL)	PY 100	3	GESS
Social/Cult. Anthropology	4-7 (SL)	AN 112	3	GESS
	4-7 (HL)	AN 112	3	GESS
Theatre	4-7 (SL)	TH 102	3	GEHU/CP
	4-7 (HL)	TH 102	3	GEHU/CP
Visual Arts	4-7 (SL)	AR 103	3	GEHU/CP
	4-7 (HL)	AR 103 or Art Studio Elec	3 ⁴	GEHU/CP
World Religion	4-7 (SL)	RG 102	3	GEHU
	4-7 (HL)	RG 102	3	GEHU

¹ The 9 hours of Biology are to be selected by Biology Department Chair and Student.

² May count for humanities general education credit except for Bachelor of Arts degree.

³ The 3 hours of CM 299 Special Topics/CIS will be Software Lifecycles.

⁴ AR 103 Introduction to Art will be awarded for non-majors; Art Studio elective will be awarded for majors.

DSST Testing

Students can obtain information for certain subjects then take a standardized test to receive college credit through DSST examinations. Students cannot earn DSST exam credit for a course that has been previously attempted or completed at Washburn or a transfer institution.

(A course that appears on a college transcript or a course in progress is considered an attempted course.) If a DSST examination is attempted and not passed, a student must wait 30 days before retesting.

Credit for DSST examinations are awarded as credit. However, the score identified as passing should be interpreted as equivalent to a grade of C or better. Therefore, DSST credit can be awarded for any course requiring a grade of C or better. This credit is considered transfer credit and may be treated as a prerequisite for subsequent courses. There is no record made on the academic transcript for those students who are not awarded credit. Each school or department within the university has different curriculum requirements and may use the scores in different ways.

Veterans and active military personnel are particularly encouraged to take advantage of DSST exams. Military service members may be eligible to have their DSST exam fee funded through the DANES program. For more information visit http://getcollegecredit.com/test_takers (http://getcollegecredit.com/test_takers/).

In order for Washburn University to accept as transfer credit DSST exam credit awarded at another postsecondary institution, official university transcripts must be submitted to Washburn. Depending on the institution awarding the credit, students may need to submit an official DSST transcript to Washburn University.

Official DSST transcripts can be ordered by visiting this website: https://www.getcollegecredit.com/scores_transcripts/. For DSST transcript inquiries call 1-877-471-9860. To schedule a DSST Examination at Washburn University, contact the Center for Prior Learning and Testing in Mabee Library. Washburn University awards credit for the following DSST examinations:

Subject	Score	Award	Hours	Gen Ed
Astronomy	400	AS 101	3	GENS
Criminal Justice	400	CJ 100	3	
Envir. Science	400	BI 203	3	GENS
Ethics in America	400	PH 1XX	3	
Foundation of Ed.	400	ED 385	3	
Fund. of College Alg.	400	MA 116	3	
Gen Anthropology	400	AN 112	3	GENS
Intro to Business	400	BU 101	3	
Intro to Geography	400	GG 101	3	GENS
Intro. to Law Enfor.	400	CJ 110	3	
Intro. to World Rel.	400	RG 102	3	GEHU
Lifespan Dev. Psy.	400	PY 209	3	
Personal Finance	400	BU 180	3	
Prin. of Pub. Speaking	400	CN 150	3	GEHU
Principles of Statistics	400	MA 140	3	GENS
Technical Writing	400	EN 208	3	GEHU

College Level Examination Program (CLEP)

Washburn University allows you to test out of courses in which you already have academic knowledge comparable to that gained in collegiate study. A national credit by examination opportunity is available at the university: the College Level Examination Program (CLEP). CLEP examinations measure knowledge of the material usually covered in courses during the first two years of college. Students cannot earn CLEP credit for a course previously attempted or completed at Washburn University or a regionally accredited postsecondary institution. (A course that appears on a college transcript or a course in progress is considered an attempted course.) If a CLEP examination is attempted and not passed, a student must wait 90 days before retesting. Credit for CLEP examinations are awarded as credit. However, the score identified as passing should be interpreted as equivalent to a grade of C or better. Therefore, CLEP credit can be awarded for any course requiring a grade of C or better.

This credit is considered transfer credit and may be treated as a prerequisite for subsequent courses. There is no record made on the academic transcript for those students who are not awarded credit. Each school or department within the university has different curriculum requirements and may use the scores in different ways.

Veterans and active military personnel are particularly encouraged to take advantage of CLEP exams. Military service members may be eligible to have their CLEP exam fee funded through the DANTES program. For more information visit <https://clep.collegeboard.org/earn-college-credit/military-benefits> (<https://clep.collegeboard.org/earn-college-credit/military-benefits/>).

Official CLEP scores can be ordered by contacting:
CLEP

Box 6601
Princeton, N.J., 08541
800-257-9558, (Washburn code 6928)

In order for Washburn University to accept as transfer credit CLEP exam credit awarded at another postsecondary institution, official university transcripts must be submitted to Washburn. Depending on the institution awarding the credit, students may need to submit an official CLEP transcript to Washburn University.

The CLEP scores listed are for exams taken through computer-based testing (CBT) only. Contact the Center for Prior Learning and Testing regarding scores for exams taken before July 2001. To schedule a CLEP Examination at Washburn University, contact the Center for Prior Learning and Testing in Mabee Library.

Washburn awards the following credit for CLEP (through computer-based testing) exams:

Subject	Score/Award	Hours/Grade	Gen Ed
Am. Government	50+ PO 106	3 Credit	GESS
Am Lit	No equivalent		
Analyzing Lit	50+ EN 135	3 Credit	GEHU
Biology	50+ BI 100 and BI 1XX	3 Credit	GENS
Calculus	No equivalent		
Chemistry	50-59 CH 101	3 Credit	GENS
Chemistry	60+ CH 121 or	5 Credit	GENS

	CH 151	5 Credit	GENS
College Algebra	50+ MA 116	3 Credit	
College Comp	No equivalent		
College Comp Modular	No equivalent		
College Math	50+ MA 1XX	3 Credit	GENS
Economics			
Macro	50+ EC 201	3 Credit	GESS
Micro	50+ EC 200	3 Credit	GESS
English Lit	No equivalent		
Financial acct	No equivalent		
French	50-59 FR 101	4 Credit	
French	59+ FR 101 and FR 102 ¹	4 Credit	GEHU
German	50-59 GE 101	4 Credit	
German	60+ GE 101 and GE 102 ¹	4 Credit	GEHU
Human Growth/Develop.	50+ PY 209	3 Credit	
Humanities	50+ HU 1XX	3 Credit	GEHU
Info Systems	50+ CM 1XX	3 Credit	
Intro Business Law	No equivalent		
Intro Ed Psych	No equivalent		
Intro Psych	50+ PY 100	3 Credit	GESS
Intro Sociology	50+ SO 100	3 Credit	GESS
Natl Sciences	50+ NS 1XX	3 Credit	GENS
Precalculus	50+ MA 123	3 Credit	GENS
Princ of Mgmt	No equivalent		
Princ of Mktg	No equivalent		
SocSci and Hist	50+ SS 1XX	3 Credit	GESS
Spanish	50-59 SP 101	4 Credit	
Spanish	63+ SP 101 and SP 102 ¹	4 Credit	GEHU
Spanish w/ Writing	50-59 SP 101	4 Credit	
Spanish w/ Writing	65+ SP 101 and SP 102 ¹	4 Credit	GEHU
US Hist I	50+ HI 111	3 Credit	GESS
US Hist II	50+ HI 112	3 Credit	GESS
West Civ I	No equivalent		
West Civ II	No equivalent		

¹ May count for humanities general education credit except for Bachelor of Arts degree.

University Department Exams

When a student identifies a course which he or she feels qualified to "challenge" or "quiz out of," the student should contact the chair of the department offering that course to determine whether a department examination could be accepted. If the academic department gives approval for the student to quiz out of a specific course, the student obtains a Credit by Examination registration form from the Student One Stop. The Student One Stop determines that the student is either currently enrolled or a former student who is not currently enrolled in the challenged class and is free of all holds. The student completes

the credit by examination registration form and obtains department signatures as required on the form. The student then takes the form to the Business Office to pay the standard testing fee for the exam. After payment is made, the student returns a copy of the form to the Student One Stop. The student takes his/her copy which has been marked "paid" to the department at the scheduled time of the examination. Under no circumstances will the examination be administered prior to payment. No refunds will be given for exams not taken or not passed.

After the student has taken the exam, the department evaluates it and determines whether or not the student receives credit and submits the grade to the Student One Stop. If the department determines that credit is to be awarded, credit for the course is posted to the transcript by the Registrar's Office. If the department determines based on the exam that credit should not be awarded, no entry is made to the transcript. If the course is taken to fulfill requirements in a major, a letter grade for the course may be determined by the department and posted on the transcript. The exam may not be repeated; a student may not take a department exam for any course more than once. Credit by department examination may not be used to repeat courses previously taken by the student. Credit given by department examination is considered residential credit.

Transferring CPL from Another Institution

Credit for Prior Learning awarded by all accredited institutions of higher education is evaluated in the same manner as regularly graded coursework from these institutions. The credit awarded is adjusted to the CPL policies of Washburn University. Every attempt is made to ensure that credit for prior learning applies to both a student's degree program and university requirements for graduation.

CPL Limits

There is no overall cap on Credit for Prior Learning that can be earned at Washburn University. The amount of CPL may be limited by the student's need to meet all University and departmental requirements for graduation.

Credit Granted for Military Service

Credit awarded for military service is based upon the recommendations of the Commission on Accreditation of Service Experiences which was appointed by the American Council on Education. Credit will be granted to all military personnel in accordance with the recommendations of the ACE Guide to the Evaluation of Educational Experiences in the Armed Services. Students should provide their military transcripts by clicking the link www.acenet.edu/news-room/Pages/Transcripts-for-Military-Personnel.aspx (<http://www.acenet.edu/news-room/Pages/Transcripts-for-Military-Personnel.aspx>).

Army, Coast Guard, Marine Corps, and Navy, Active Duty, Reserve and Veterans are eligible to access this system. Please follow directions on the link entitled Military Transcript Request. Air Force transcripts can be requested through the Community College of the Air Force or Air University, using the same link.

Military credit is subject to the same limitations as regular transfer credit, i.e. technical credit limits and no credit awarded for course duplications. For more information and to secure forms for making application, students should contact the Office of the University Registrar.

Grading System

Grades and Grade Points: Symbols used in grading

Grade	Description	Grade Points
A	Excellent	4
B	Well above average	3
C	Average	2
D	Below average but passing	1
F	Failure	0
AU	Audit	0 ¹
CR	Credit only-letter grade C or better	0 ¹
I	Incomplete	0 ¹
NC	No credit	0 ¹
IP	In Progress	0 ¹
NR	Not recorded	0 ¹
P	Credit only-letter grade of D	0 ¹
W	Withdrawn	0 ¹
S	Satisfactory	0 ¹
U	Unsatisfactory	0 ¹

¹ Not included in grade point average

A/Credit/Pass/Fail Option

Under certain circumstances, undergraduate students have the option to elect to enroll in a course for a grade or for A/Credit/Pass/Fail. A student may enroll in only one A/Credit/Pass/Fail course per semester. To enroll in a course under the A/Credit/Pass/Fail option, a student must have completed 24 semester credit hours with at least a 2.0 GPA. Courses in a student's major (including minor and correlate courses) cannot be taken for A/Credit/Pass/Fail without written permission from the appropriate department chair or dean on file in the Student One Stop (SOS).

If the student earns an A in the course, this is recorded on the transcript. If the student earns a grade of B, C, or D this is recorded as CR (earned grade of B or C) or P (earned grade of D) on the transcript, and is not figured in the student's cumulative grade point average. If the student fails the course, a grade of F is recorded, and this grade is figured in the student's cumulative grade point average. Students must present a minimum of 84 graded hours (i.e., hours in which an A/B/C/D, or F was received) for graduation with a Bachelor's degree, or a minimum of 42 graded hours for an Associate's degree.

Subject to the provisions above, a student may elect graded or A/Credit/Pass/Fail status for a course at any time during the period in which that student may elect to withdraw from that course. Please see the academic calendar at www.washburn.edu/academic-calendar (<http://www.washburn.edu/academic-calendar/>) for specific deadline dates.

Certain courses may not be taken for grade, but may only be taken pass/fail. The above policy does not pertain to such courses.

Repetition of Courses

Undergraduate courses may be repeated. Courses for which grades of Ds and Fs are recorded can be retaken without departmental approval; courses for which a grade of C, or credit, or higher are recorded will

require departmental approval prior to registration. The transcript will contain a complete record of all courses taken and grades earned. The repeated will be included in determining the cumulative grade point average, the original grade will not be included. After a student has repeated the same course three times, or has repeated three different courses, that student must have the permission of his/her academic dean before repeating any course.

Awarding "Incomplete" Grades

The letter "I" indicates "incomplete work" which may be completed without repetition of the course. The incomplete will not be used when a definite grade can be assigned for the course. It will not be given for the work of a student in any course except to indicate that some part of the work, for good reason, has not been completed, while the rest of the work has been satisfactorily completed. The student must have completed three-fourths of the course requirements satisfactorily to be assigned an incomplete. The incomplete grade is used only when in the opinion of the instructor there is the expectation that the work will be completed.

The instructor provides the list of remaining requirements to the student and Department Chairperson. When the requirements are met and evaluated, the instructor submits the grade to the University Registrar's Office and the "I" is replaced by the grade.

Unless an earlier deadline is stipulated by the instructor of the course, the incompletes in courses must be completed by the last day of classes and grades submitted to the University Registrar Office by the deadline of grade submission of the subsequent Spring semester for Fall incompletes or the subsequent Fall semester for Spring and Summer incompletes; otherwise a grade of "F" will be recorded.

The above procedure applies to undergraduate courses. The Incomplete grade policy for graduate courses and programs can be found in the graduate catalog. Students transferring to Washburn with "Incompletes" on their transcripts will have the courses designated with an "NC" instead of an "I." Transfer students may have the designation changed by an officially revised transcript from the originating institution or by repeating those courses in accordance with the Washburn University repeat policy.

Classification

- An entering student with fewer than 30 semester hours of accumulated credit is classified as a Freshman.
- To be classified as a Sophomore, a student must have between 30 and 59 semester hours of college credit.
- To be classified as a Junior, a student must have between 60 and 89 semester hours of college credit.
- A student who has at least 90 semester hours of college credit is classified as a Senior. Graduate students are those who have been formally admitted to a graduate program. Law students are those who have been formally admitted to the School of Law.

Course Numbering System

Generally, it is recommended students take lower level courses (courses numbered 100-299) when they are freshman and sophomores and complete upper level courses (courses numbered 300-499) when they are juniors and seniors. Students should work with their advisors to determine the appropriate sequencing of courses, including whether it may be necessary to begin taking upper-level courses beginning in the sophomore year to complete a degree program in four years. If a course

is listed in the catalog as specifically requiring junior level standing in the prerequisite, students may register for the course during the semester in which they will achieve junior level rank, provided they have enrolled in sufficient lower division courses during that same semester to meet the requirements of junior rank. Exceptions to the classification requirement may be made by the course instructor, chair, or dean. Completion of forty-five hours of upper level courses (courses numbered 300-499) is required for any baccalaureate degree. Courses numbered 400-499 are also open to graduate students. Courses numbered 500-599 are considered graduate coursework but may not count toward the 30 hour minimum for a Masters degree.

Honors

Washburn has a variety of means to provide proper recognition for successful application to college work and several programs to encourage highly motivated and talented students to undertake work at the honors level.

Latin Honors

Any student seeking a Bachelor's degree who has met degree requirements by completing only Washburn coursework and by achieving a cumulative grade point average of:

- 3.4-3.59 receives a degree cum laude.
- 3.6-3.79 receives a degree magna cum laude.
- 3.8-4.0 receives a degree summa cum laude.

Students who have transfer coursework from any other university/college will have the following procedures applied in calculating honors. If the student does not have a baccalaureate degree from another university/college, the cumulative grade point average of the transferable coursework will be used in calculating honors. If the student has a degree from another university/college, the cumulative grade point average for the entire degree will be used in calculating honors. In either category, the honor awarded to a student with transfer coursework will be determined by the **lower** of the following two grade point averages:

1. the overall (degree or transferable coursework GPA combined with the Washburn coursework GPA), and
2. the Washburn coursework only.

Students with transfer coursework must have completed a minimum of 24 graded hours at Washburn University to qualify for a degree with honors. Latin honors are awarded for baccalaureate degrees only. All majors completed during a single degree will be used in calculating honors. Any additional major acquired after the original degree is awarded will not be used in recalculating Latin honors for that degree.

Dean's Honor Roll

Students whose grade point average for the semester is equivalent to 3.4 or better are honored by having their names placed upon the Dean's Honor Roll and they are so notified by the Dean of the appropriate college or school. The completion of a minimum of 12 Washburn semester hours taken for letter grades is required.

President's Honor Roll

Students whose grade point average is 4.00 for the semester are honored by having their names placed upon the President's Honor Roll and they

are so notified by the President. The completion of a minimum of 12 Washburn semester hours taken for letter grades is required.

Grade Appeal Procedure

The following grade appeal procedure applies to the College and the Schools, not the School of Law. The obligation of the instructor to evaluate the performance of students on sound academic grounds is basic to the formal education process. A student who believes the grade awarded him/her by an instructor is based upon reasons other than the student's academic performance may appeal the grade received in a course. Students utilize the procedure outlined below to appeal the grade unless a student believes the grade was awarded based on illegal discrimination on the basis of race, color, religion, age, national origin, ancestry, disability, sex, marital or parental status or sexual orientation/gender identity. Appeals based upon complaints of discrimination follow the University's procedure for complaints of discrimination (eodirector@washburn.edu).

Consultation with the Faculty Member

A student must first attempt to resolve the dispute concerning the final grade received in a course through consultation with the instructor of the class. Such consultation normally shall take place following award of the grade but in no event shall such consultation take place later than the fourth week of the next regular academic semester following the award of the grade. In the event the course instructor is no longer at the University or is on a leave of absence during the semester following the contested grade or the instructor has refused to consult with such student, the student may proceed to the next stage, which is mediation by the Department Chair (where such exists). If no Department Chair exists, the next stage is mediation by the Dean of the College or School in which the course was offered.

Mediation by the Department Chair

If the student is dissatisfied with the result of the consultation with the instructor or the student has been unable to meet with the instructor because of the instructor's refusal to meet or absence, the student may seek mediation of the matter with the Department Chair in the unit in which the course was offered. The Department Chair must be notified in writing by the student of the intention to continue the appeal process. Such notification must be received within 10 working days of the day on which the student/instructor consultation has been completed. The process shall be terminated if notification is not received within the 10 working days. The instructor shall make available to the Department Chair all of the materials and criteria which entered into the determination of the student's final grade in the course. The student shall provide the Department Chair, in writing, the grounds for contesting the grade by the instructor. After receiving and reviewing these materials, the Department Chair shall meet with the student and the instructor, either jointly or separately, to attempt to mediate the dispute about the contested grade.

Mediation by the Dean of the College or School in Which the Course was Offered

If the student is dissatisfied with the result of the consultation with the instructor and with the Department Chair (where appropriate) or the student has been unable to meet with the instructor because of the instructor's refusal to meet or absence, the student may seek mediation of the matter with the Dean of the College or School in which the course was offered. The Dean must be notified in writing by the student of the intention to continue the appeal process. Such notification must

be received within 10 working days of the day on which the student/Department Chair consultation has been completed. The process shall be terminated if notification is not received within the 10 working days. The instructor shall make available to the Dean all of the materials and criteria which entered into the determination of the student's final grade in the course. The student shall provide the Dean, in writing, the grounds for contesting the grade by the instructor. After receiving and reviewing these materials, the Dean shall meet with the student and the instructor, either jointly or separately, to attempt to mediate the dispute about the contested grade.

Appeal to Grade Appeal Committee

If, after mediation with the Dean as provided above, the student is still dissatisfied with the result, the student may file a notice of appeal with the Dean, which shall specify the grade requested and provide a written summary of the grounds for appeal to the Grade Appeal Committee. Such notification must be received by the Dean within 10 working days of the day on which the student/faculty member consultation was completed. The process shall be terminated if notification is not received within the 10 working days. Upon receipt of the notice of appeal, the Dean shall forward it and all materials submitted by the faculty member and student during the mediation process to the Vice President for Academic Affairs, the faculty member, and the student.

The Vice President for Academic Affairs, upon receipt of the notice and materials, shall appoint and convene a committee of five persons comprised of three faculty members (at least one and no more than two members from the department/discipline from which the grade appeal originated and a minimum of one from other departments/disciplines) and two students from departments/disciplines outside the originating College/School to serve as the Grade Appeal Committee. The Vice President for Academic Affairs may request names of potential discipline-based committee members from the appropriate Dean and/or Department Chair.

The awarding of grades that are fair and equitable is taken seriously by the University. Therefore, faculty members are urged to view a request to serve on a Grade Appeal Committee as an important obligation and a service to the University which should be refused only under extraordinary circumstances. At its first meeting, the Grade Appeal Committee shall select its chairperson and set the date, time and place for the appeal to be heard, and review appeal materials from the Vice President for Academic Affairs. The committee shall advise the student and the faculty member of the hearing date. The Grade Appeal Committee may only request clarifying information related to the original documents of the appeal packet. Clarifying information requested from the student/faculty member by the committee should be requested through the Vice President for Academic Affairs. Any clarifying information gathered by the Vice President for Academic Affairs will also be shared with the student and/or faculty member.

Hearing

The hearing will take place before the entire Committee. The burden of proof rests with the student who shall, during the course of the hearing on the contested grade, be responsible for presenting evidence to support the claim. The hearing will be informal and the formal rules of evidence shall not be applicable. Oral testimony of witnesses may be presented but is not required. If either the student or the faculty member presents witnesses, he/she must provide a written summary of the testimony expected of the witness(es) to the Vice President for Academic Affairs not later than five business days prior to the date of the hearing. The Vice

President for Academic Affairs will then disseminate such information to the committee and each party within three business days. The student or the faculty member may be accompanied by an advisor whose only role in the course of the hearing will be to render advice to the student/faculty member. The student is required to attend the hearing. It is recommended that the faculty member attend the hearing. Should both the student and faculty member attend, they will meet with the committee jointly. The amount of time allotted to each party will be left to the discretion of the committee. The hearing will not be audio, video, or digitally recorded.

Decision

The student will prevail only if at least four of the five members of the committee agree that the relief (grade) sought should be awarded for the reasons stated in the notice of appeal and the student's grade be changed. The committee shall report its decision in writing to the Vice President for Academic Affairs who will then disseminate the decision to the student, faculty member, Dean, and Department Chair (if applicable). The decision of the committee shall be final. If it is the judgment of the committee that the grade be changed, the Vice President for Academic Affairs shall notify the University Registrar, who will enter the changed grade.

Undergraduate Academic Probation and Reinstatement Policy

(Effective June 2015)

Students with 0 – 29 hours must maintain a 1.8 cumulative grade point average in order to be in good academic standing. Students with 30 – 59 hours must maintain a 1.9 cum GPA or higher. Students with more than 60 credit hours must maintain a 2.0 GPA or higher to be in good academic standing. Specific regulations governing students whose cumulative grade point average does not meet good academic standing have been developed.

Academic Notice

A freshman or sophomore as determined by the student's cumulative credit hours, whose cumulative grade point average (GPA) falls below 2.00 and into the ranges below, receives a letter of Academic Notice.

Cumulative Credit Hours Attempted	Cumulative GPA Requirement
0-29	1.80 to 1.99
30-59	1.90 to 1.99

The Letter of Academic Notice will clearly state the need for students to improve their academic performance to avoid being placed on Academic Warning in a later semester. Further, it will highlight that both Associate and Bachelor degree seeking students need a minimum 2.0 GPA to graduate.

Academic Warning

Academic Warning is used to indicate that an undergraduate student is not meeting requirements for good academic standing. A student is placed on academic warning when the student's cumulative grade point average (GPA) falls within the indicated range based on cumulative credit hours attempted (see below).

Cumulative Credit Hours Attempted	Cumulative GPA Requirement
0-29	1.60 to 1.79
30-59	1.70 to 1.89

60-89	1.80 to 1.99
90 or more	1.90 to 1.99

A student on Academic Warning can continue to enroll at Washburn University. Students on Academic Warning are required to enroll and participate in the STAR Program: Stage 1 administered by the Center for Student Success and Retention each semester they are on Academic Warning.

STAR Program: Stage 1 includes, but is not limited to:

- Semester course registration considerations to promote success.
- Completion of the online learning modules.
- Mid-term grade checks and class attendance checks.

Academic Probation and Suspension

An undergraduate student on Academic Warning who does not achieve a 2.0 GPA for the semester and obtains a cumulative Washburn University GPA outlined below is placed on Academic Probation or can face Academic Suspension as determined by the Probation and Reinstatement Committee with input from Center for Student Success and Retention. A student who achieves 2.0 GPA for the semester but has not achieved the minimum required cumulative GPA outlined above, is considered to be on Academic Warning.

Cumulative Credit Hours Attempted	Cumulative GPA Requirement
0-29	1.59 or below
30-59	1.69 or below
60-89	1.79 or below
90 or more	1.89 or below

Students who are placed on probation rather than being suspended by the Probation and Reinstatement committee and the Center for Student Success must enroll in the STAR Program: Stage 2.

STAR Program: Stage 2 includes, but is not limited to:

- Semester course registration revisions to promote success.
- Completion of the online learning modules.
- Mid-term grade checks and class attendance checks.
- Required tutoring in various courses.
- Required Financial Aid and/or Literacy counseling.
- Academic coaching meetings.

A student who completes the requirements of the STAR Program: Stage 2 but who does not meet the minimum required semester GPA or cumulative GPA listed for Academic Warning may remain enrolled only if both the CSSR and the Probation and Reinstatement Committee make a positive recommendation. In such cases, the student will be considered to be on Academic Probation and continue in the STAR Program: Stage 2.

Students on Academic Warning or Academic Probation can face immediate Academic Suspension if they do not participate in and/or successfully complete the terms of the STAR Program.

Students who obtain either a semester or cumulative GPA of 1.0 or below, can face immediate Academic Suspension, even if not previously on Academic Warning or Academic Probation.

The Academic Suspension is effective for at least one full semester. The summer session does not count as a full semester.

Reinstatement from Suspension Status

1. In order to be considered for academic reinstatement, the student must complete the established reinstatement process no later than 60 calendar days prior to the beginning of the semester/session in which the student wants to enroll.
2. The student must complete the following steps in order to complete the reinstatement petition process:
 - a. Contact the STAR Program Coordinator to arrange an individual Student Success Plan for their transition semester back into Washburn University and to schedule their reinstatement meeting. Call the Center for Student for Success and Retention, 785-670-1942, Mabee 201, to schedule your reinstatement meeting.
 - b. The purpose of this meeting is to (1) discuss your past academic history, (2) explore strategies for future academic success, and (3) assist you in creating your required individual Student Success Plan. The STAR Program Coordinator, upon the completion of your agreed upon Individual Student Success Plan, will sign the verification portion of a Reinstatement Petition Form, and give to you for submission as part of your request for reinstatement.
 - i. **Good Standing Reinstatement:** If you have earned academic credits from other institutions which will make your GPA higher than a 2.0, please make sure you provide that information to the STAR Program Coordinator. Your earned academic credits may allow you to gain good standing reinstatement and your advisor can provide you with instructions. Also make sure that all transcripts are sent to the Admissions office once all grades have been posted at the other institution(s).
 - ii. If you believe your GPA will be higher than a 2.0 with the transfer of courses, please submit a written request to the VPAA office.

Appeal for Reconsideration of Suspension

Students whose GPA falls below that level may request reconsideration if there were extenuating circumstances beyond their control which prevented them from attaining the required academic standards.

If any appeals for reconsideration of suspension are received, a meeting of the Probation and Reinstatement committee will be convened to hear only those appeals.

1. In order to appeal a suspension, the student must submit a typed statement to the Office of the Vice President for Academic Affairs no later than two (2) weeks prior to the beginning of the semester/session in which the student wants to enroll.
 - a. Compose a personal statement. Your statement should include the following information:
 - i. Discussion of your past academic performance.
 - ii. Information about your meeting with the STAR Program Coordinator.
 - iii. The strategies you have identified to have a successful academic reentry to the University.
 - iv. The academic plan for the semester you want to attend if reinstated.
 - b. Submit the Reinstatement Petition Form and your Personal Statement by the deadline to the address listed on the Petition Form. **Note:** If you have attended another college, official

transcripts must be received by the Admissions Office for the committee's review before a final decision is made.

2. The student is strongly encouraged to contact the Office of Academic Advising to set appointments to meet with the STAR Coordinator or an academic advisor PRIOR to submitting an appeal of their suspension.
3. Any written appeals for reconsideration of suspension by students which indicate extenuating circumstances outside of the student's control will be referred to the Office of the Vice President for Academic Affairs where they will be reviewed for potential consideration by the Probation and Reinstatement committee. If approved for consideration by the Committee, the student will be responsible for completing the entire reinstatement process as soon as possible with the completed packet submitted to the VPAA office no later than one week prior to the committee's meeting. The student should be aware that the reinstatement/petition must be approved by the Committee as a whole.

Administrative Information

1. Transfer students must meet the retention standards of Washburn students including entering on probation.
2. A grade of incomplete will not affect the GPA for the semester in which it is received. The grade, when it has been awarded, or the F to which it has been converted, will affect the subsequent semester and cumulative GPA.
3. Students who have academic deficiencies are advised to enroll in no more hours than they have successfully (with C or better grade) completed in the preceding semester.
4. Students who have been suspended and are later reinstated will be readmitted on academic notice or warning.

No student will be reinstated more than twice. The third academic suspension is, in effect, the final academic dismissal, except that a student who has been academically dismissed may, three or more years after dismissal, apply for readmission under the Fresh Start Program.

Academic Fresh Start

Students who have performed poorly in their first year or two at any regionally accredited post-secondary institution and then withdraw or are dismissed frequently return to school later to resume their education. Unfortunately, their prior academic record often presents a major obstacle to their overall success. Students who want an opportunity for a fresh undergraduate start at Washburn University, without the handicap of their prior academic record, may apply for Academic Fresh Start within the first term of attendance subject to the following conditions:

- All previous academic work at any regionally accredited post-secondary institution will be disregarded with respect to Washburn University graduation requirements.
- The prior academic record remains a part of the student's overall academic transcript but is not carried forward as part of the student's program.
- The Washburn transcript will indicate Academic Fresh Start and the date granted.
- The student will then begin college study again under the current catalog with no credits attempted, no credits earned, and no grade points earned.
- A person may receive Academic Fresh Start only once.

The Academic Fresh Start policy applies only to your Washburn academic record. A student granted Academic Fresh Start is an entering first-year student and as such is eligible for consideration for all academic opportunities afforded by Washburn. A student transferring from Washburn University to another institution will have to follow the receiving institution's policy.

To be eligible for consideration of Academic Fresh Start:

- At least three years must have elapsed between the end of the semester in which the applicant was last in attendance at any regionally accredited post-secondary institution and the beginning of the semester in which he/she intends to re-enroll. This three year waiting period may be waived if course work was completed prior to high school graduation. Student petitions for Academic Fresh Start within the first term of attendance.
- Student must apply for admission through the Office of Admissions.
- Student submits official transcripts from all regionally accredited post-secondary institutions attended.
- Application fee paid.

Granting of Academic Fresh Start does not mean the student is eligible for institutional scholarships or financial aid. Per federal regulations, the student's full academic history must be reviewed for Satisfactory Academic Progress (SAP) guidelines. Washburn's SAP policy can be found online at www.washburn.edu/financial-aid (<http://www.washburn.edu/financial-aid/>) under Right to Know. An individual request for reinstatement of federal aid should be directed to the financial aid office in writing.

Petitions are available through Academic Advising in Mabee Library 201.

Programs, Degrees, and Graduation Requirements

- Graduation Requirements (p. 67)
- University Requirements Common to All Bachelor Degrees (p. 67)
- University Requirements Common to All Associate Degrees (p. 68)
- General Education Statement (p. 69)
- General Education Core Requirements (p. 70)
- General Education Distribution Requirements (p. 70)
- General Education Requirements for Specific Bachelor & Associate Degrees (p. 74)
- Academic Programs (p. 75)
- Washburn Institute of Technology (p. 77)

Graduation Requirements

Each candidate for a degree must meet the general requirements for graduation and the specific requirements for the degree desired. The ultimate responsibility for complying with degree requirements rests with the student. In order to ensure the early and proper selection of a field of concentration, every student seeking a baccalaureate degree is required to have filed a declaration of major by the time the student has completed 60 credit hours. Candidates for the associate degree must file the declaration of major at the completion of 30 credit hours. A student is free to change or add majors at any time by following the correct prescribed procedures. Declaration of a major is made by visiting the relevant academic department.

Candidates for the Graduate, Baccalaureate or Associate Degree or for a Certificate must submit an online Application for Degree in September for the fall semester and in February for the spring and summer semester. The University confers degrees at the end of each semester and at the end of the Summer Session.

Transfer students who have completed a baccalaureate degree at an institution of higher education accredited by one of the six regional accrediting organizations are considered to have satisfied general-education requirements, and are therefore not required to meet Washburn's specific general-education requirements. This includes all aspects of the general-education program including the core requirements and the general-education distribution hours. Students will, however, be required to meet degree requirements that are specific to certain Bachelor and Associate degrees including required courses in correlate areas associated with an academic major. Other transfer students (domestic and international) should review the "Transfer (p. 13)" section for additional information regarding the transfer of general-education course work.

University Requirements Common to All Bachelor Degrees

A minimum of 120 semester hours of credit. Some baccalaureate degrees may require additional hours. See specific degree/major.

1. A cumulative grade average of at least C (2.0 grade point).
2. Forty-five hours of upper division work (300-400 numbered courses).
3. At least 12 hours in the major must be in the upper division courses.
4. Nine hours of course-specific core coursework including EN 101 First Year Writing and EN 300 Advanced College Writing (Communication), and MA 112 Contemporary College Mathematics or MA 116 College Algebra (Quantitative and Scientific Reasoning and Literacy) further described under Core Requirements.
5. Complete WU 101 The Washburn Experience (Information Literacy) or HN 101 Honors First Year Experience (conditional upon admittance into the Honors Program) with a minimum grade of C. Students transferring to Washburn University with 30 or more credit hours completed at an accredited post-secondary institution with a GPA of 2.0 or higher are exempt from the requirement to take WU 101 The Washburn Experience or HN 101 Honors First Year Experience.

Notes:

- a. Students entering Washburn University direct from high school enroll in WU 101 The Washburn Experience or HN 101 Honors First Year Experience (conditional upon admittance into the Honors Program).
- b. Students not direct from high school entering Washburn University with less than 30 hours completed at an accredited post-secondary institution who have not completed a university success course with a minimum grade of C enroll in WU 101 The Washburn Experience or HN 101 Honors First Year Experience (conditional upon admittance into the Honors Program) as determined by their Academic Advisor.
- c. Students transferring to Washburn University with 30 or more credit hours completed at an accredited post-secondary institution (after graduating from high school) with a GPA of 2.0 or higher are exempt from the requirement to take WU 101 The Washburn Experience or HN 101 Honors First Year Experience. They are strongly encouraged to complete a series of

- independent online modules introducing them to the Washburn University Community of Learning.
- d. Students not falling in designated categories will be reviewed by Academic Advisors for applicable placement recommendations.
 - e. Students originally determined as being required to complete WU 101 The Washburn Experience or HN 101 Honors First Year Experience who advance beyond 24 hours of credit without fulfilling the requirement with a minimum grade of C are required to complete a 3-credit hour Directed Readings project (IS 110 Special Topics) administered by the FYE Lecturer/Coordinator.
6. A minimum of nine hours in each of the distribution groupings of General Education (see General Education Distribution Groupings and Subject Areas) from courses outside the major selected from at least two disciplines in each distribution group. The number of hours in each distribution grouping will vary by degree. The individual student should check with the major department. Courses in the student's major discipline cannot fulfill distribution requirements; however, in many cases, courses required by the major department in correlated areas will fulfill some of the general education distribution requirements.
 7. To count toward a major, minor, or required correlated area, work must be of C grade or better. A correlated area is defined as any course or courses outside the major discipline required for the completion of that major.
 8. A/Pass/Fail option cannot be taken in the major department or correlated area unless written permission is obtained from the head of the major department for that course and filed with the University Registrar's Office.
 9. Of the last 45 hours required to complete the bachelor degree, at least 30 must be earned from Washburn University OR at least 90 of the total overall hours required to complete the degree must be earned from Washburn University. In both cases, at least 25% of the credit hours required to fulfill the major (and at least 12 hours of the upper division credits in the major) must be earned from Washburn University. Programs with professional accreditation standards may have more stringent requirements. The academic residency requirement will be waived in the case of formal articulation agreements.
 10. At least 60 hours of the total credit hours required for the baccalaureate degree must be taken at a 4 year college or university.
 11. A student may be awarded a degree after completing the requirements for that degree in effect when he/she first enrolled or, if he/she chooses, in effect in any subsequent year except that no degree shall be awarded based upon requirements not in effect within six years of the date of graduation.
 12. A double major may be completed within the 120 hour total by meeting all the requirements of the two majors.
 13. Any candidate for a second baccalaureate degree must meet the specific requirements for both degrees and present an additional 30 credit hours beyond the first baccalaureate degree.
 14. For general elective credits for a baccalaureate degree, no more than a combined total of ten hours of credit in physical activity courses and music ensemble courses will count.
 15. No more than 12 hours of correspondence work may be offered toward any degree. This applies to correspondence courses only and not to extension courses. Courses failed by a student in residence may not be repeated by correspondence. Normally, courses offered on campus may not be taken by correspondence.
 16. While there is no specific limit to the total number of semester hours that may be taken on a non-graded basis such as A/pass/fail, credit by examination, advanced placement, and/or military service, a minimum of 84 hours presented for graduation must be on a graded basis. For international students presenting transfer credit from an international tertiary institution accredited by the Ministry of Education (or its equivalent) in that country, a minimum of 60 hours presented for graduation must be on a graded basis since Washburn converts grades earned in these transfer courses to CR, P and NC.
 17. Candidates for degrees other than the BBA degree are limited to a maximum of 21 hours of Accounting (AC) and Business (BU) courses within the 120 minimum required for graduation.

University Requirements Common to All Associate Degrees

A minimum of 60 hours. Some associate degrees may require additional hours. See specific degree/major.

1. Six hours of course-specific core coursework including EN 101 First Year Writing (communication), and MA 112 Contemporary College Mathematics or MA 116 College Algebra (quantitative and scientific reasoning and literacy) further described under Core Requirements. With the exception of the Associate of Liberal Studies degree, any mathematics course taken to satisfy this requirement may also be used to meet the distribution requirements for Mathematics and Natural Sciences.
2. Complete WU 101 The Washburn Experience or HN 101 Honors First Year Experience (conditional upon admittance into the Honors Program) with a minimum grade of C. Students transferring to Washburn University with 24 or more credit hours completed at an accredited post-secondary institution with a GPA of 2.0 or higher are exempt from the requirement to take WU 101 The Washburn Experience or HN 101 Honors First Year Experience

Notes:

- a. Students entering Washburn University direct from high school enroll in WU 101 The Washburn Experience or HN 101 Honors First Year Experience (conditional upon admittance into the Honors Program).
- b. Students not direct from high school entering Washburn University with less than 24 hours completed at an accredited post-secondary institution who have not completed a university success course with a minimum grade of C enroll in WU 101 The Washburn Experience or HN 101 Honors First Year Experience (conditional upon admittance into the Honors Program) as determined by their Academic Advisor.
- c. Students transferring to Washburn University with 24 or more credit hours completed at an accredited post-secondary institution (after graduating from High School) with a GPA of 2.0 or higher are exempt from the requirement to take WU 101 The Washburn Experience or HN 101 Honors First Year Experience. They are strongly encouraged to complete a series of independent online modules introducing them to the Washburn University Community of Learning.
- d. Students not falling in designated categories will be reviewed by Academic Advisors for applicable placement recommendations.
- e. Students originally determined as being required to complete WU 101 The Washburn Experience or HN 101 Honors First Year Experience who advance beyond 24 hours of credit without fulfilling the requirement with a minimum grade of C are required

- to compete a 3-credit hour Directed Readings project (IS 110 Special Topics) administered by the FYE Lecturer/Coordinator.
3. The number of hours in each distribution grouping may vary by degree. In all associate degrees a minimum of 18 credit hours is required in distribution groupings (See General Education Groups and Subject Areas). The individual student should check with the major department. With the exception of the Associate of Liberal Studies degree, courses in the student's major discipline cannot fulfill general education distribution requirements; however, in many cases, courses required by the major department in correlated areas will fulfill some of the requirements. Any mathematics course taken to satisfy the quantitative and scientific reasoning and literacy core coursework may also be used to meet the distribution requirements for Natural Science and Mathematics.
 4. A cumulative grade average of at least 2.0.
 5. To count toward a major, minor, or required correlated area, work must be of C grade or better. A correlated area is defined as any course or courses outside the major discipline required for the completion of that major.
 6. A/pass/fail option cannot be taken in the major department or correlated area unless written permission is obtained from the head of the major department for that course and filed with the Registrar's Office.
 7. At least 15 of the last 30 hours required to complete the degree must be earned from Washburn University. Programs with professional accreditation standards may have more stringent requirements. The academic residency requirement will be waived in the case of formal articulation agreements.
 8. Forty-two hours must be graded. (Cooperative programs with Washburn Institute of Technology are exempt). For international students presenting transfer credit from an international tertiary institution accredited by the Ministry of Education (or its equivalent) in that country, a minimum of 30 hours presented for graduation must be on a graded basis since Washburn converts grades earned in these transfer courses to CR, P and NC.
 9. A student may be awarded a degree after completing the requirements for that degree in effect when he/she first enrolled or, if he/she chooses, in effect in any subsequent year except that no degree shall be awarded based upon requirements not in effect within six years of the date of graduation.

General Education Statement

The General Education component of higher education specifically focuses on introducing students to ways of knowing, integrative knowledge, appreciation of historical context, common themes of human experience, social responsibility, analytical reasoning, civic engagement, and the development of practical skills and reflective habits of mind. The General Education requirements at Washburn University are designed with the intent of providing students with a grounding in liberal arts and sciences and shaping an informed, capable citizenry through a broad education in a range of disciplines. These courses ensure that students are equipped with the knowledge and skills necessary to engage with our rapidly-changing world over their lifetimes.

In order to accomplish these goals, students will complete core courses in composition and mathematics and a broad range of course work in Arts and Humanities, Social Sciences, and Natural Sciences and Mathematics designed specifically to meet the following five major learning outcomes:

1. **Communication.** Communications skills involve the ability to clearly express and understand ideas in written, oral and non-verbal forms. Communication includes the practical exchange of information, which can include the ability to listen, comprehend and respond to others, as well as the creative expression of ideas in the visual, written and performing arts. In oral and written communication, students will demonstrate the ability to shape a central thesis, organize an argument, and formally support that argument. Students will be able to understand and interpret creative expression based on knowledge of the forms and principles of various expressive media.
2. **Quantitative and Scientific Reasoning and Literacy.** Quantitative reasoning involves the ability to work with numerical data and the higher-order thinking skills required to make and understand mathematical arguments. Scientific literacy involves the acquisition and application of skills and knowledge necessary to understand the nature and content of science, and to evaluate scientific arguments using evidence-based reasoning. Students will be able to understand and develop arguments supported by quantitative evidence, clearly communicate those arguments in a variety of formats (using words, tables, graphs, statistical inference, mathematical equations and functions, etc., as appropriate), and apply mathematical and scientific methods to solve problems from a wide array of contexts and everyday situations.
3. **Information Literacy and Technology.** Information literacy and technology involves the ability to locate, select, use and evaluate information obtained from appropriate electronic and/or printed resources, including a critical analysis of the information and the credibility of the sources of information. It also involves the ability to use technology to research, organize, present and/or communicate information in meaningful ways. Additionally, information literacy and technology includes skills such as the ability to understand the development of technology and its impact on society, the ability to understand and use existing technologies and information to address real-world issues, and the ability to recognize emerging technological trends and their possible impact on the future.
4. **Critical and Creative Thinking.** Critical thinking is the intellectually disciplined process of assessing and evaluating ideas and forms. It involves clarifying questions, reflecting upon meaning, comparing multiple viewpoints, and evaluating evidence to make an informed judgment. Creative thinking involves the production of original ideas, forms or works by making connections, generating alternatives, and elaborating or exploring new applications of accepted practices through innovation and/or invention. Critical and creative thinkers gather information from experience, observation, reasoning, reflection and communication. They explore and synthesize related ideas, connect them to prior knowledge, and apply them to new contexts.
5. **Global Citizenship, Ethics, and Diversity.** Global citizenship refers to the broad understanding of peoples and cultures in the United States and around the world, and to humankind's place and effects in the world. Global citizenship includes a respect for the commonalities and differences in peoples, including an understanding of values, beliefs and customs. It places an emphasis on the economic, religious, political, geographic, linguistic, historic, environmental and social aspects that define cultures. It places an emphasis on ethics, equality and human rights, an appreciation for diversity, the interconnectedness of societies and cultures, and a commitment to finding solutions to problems that can affect the world.

While all courses offered at the university educate students in most if not all of the five learning outcomes identified as critical to providing an educated citizenry, some courses are designed to emphasize and

assess particular learning outcomes. Each of these courses bases a substantial portion (typically at least 30%) of the final course grade on the specified student learning outcome. These courses are identified in the course catalog description (Communication: COM; Quantitative and Scientific Reasoning: QSR; Information Literacy and Technology: ILT; Critical and Creative Thinking: CCT; and Global Citizenship, Ethics, and Diversity: GED). All of the courses in the general education distribution requirements have been identified as meeting a specified student learning outcome. However, with the exception of the Associate of Liberal Studies degree, general education distribution courses must be completed outside the student's major. The number of general education distribution hours will depend on the specific degree requirements listed below. The individual student should check with the major department. Although Student Learning Outcomes (SLOs) are a useful tool for assessing general education courses, it must also be recognized that SLOs in no sense equal general education. Nothing in this document should be taken to construe that equivalency, or to suggest that every course entailing an SLO should be considered as counting toward general education.

General Education Core Requirements

The following course-specific core Student Learning Outcome courses are required of all undergraduate degree-seeking students (C or better):

EN 101 First Year Writing (COM)

Most freshmen will satisfy this requirement by taking EN 101 First Year Writing. Freshmen whose names begin with A through K will enroll in EN 101 First Year Writing during Fall Semester and those whose last names begin with the letters L through Z in the Spring Semester. For those students who do not feel adequately prepared for EN 101 First Year Writing, the English Department offers EN 100 Developmental English. This course, taught by full-time faculty members, offers smaller classes and individual attention to students who need additional preparation before attempting EN 101 First Year Writing. Students may be placed in this course based on consultation with members of the English faculty, departmental advisers, and advisers in Academic Advising. Students should be aware that EN 100 Developmental English does not fulfill the Freshman Composition requirement and does not count toward the minimum of 120 credit hours required for graduation since EN 100 Developmental English is considered a remedial course. However, completion of this course can assist students in acquiring the level of proficiency required to be successful in EN 101 First Year Writing.

EN 300 Advanced College Writing (COM - Baccalaureate Only)

This course, which is designed to be taken in the junior year, prepares students for advanced academic writing. Students need to have completed 60 credit hours to enroll in EN 300 Advanced College Writing. EN 300 Advanced College Writing satisfies three hours of the forty-five upper division hours required for a baccalaureate degree.

NOTE:

EN 101 First Year Writing, EN 102 Freshman English Honors and EN 300 Advanced College Writing will not count toward the completion of the Arts and Humanities General Education requirement; however, transfer students who have completed a second semester freshman composition

course at another institution may use that course to fulfill three hours of the humanities General Education requirement.

MA 112 Contemporary College Mathematics or MA 116 College Algebra (QSR)

This requirement will be satisfied if the student demonstrates appropriate competency as determined by the Mathematics and Statistics Department. (Additional ways to satisfy the mathematics requirement: completion, with a C or better, of any Washburn mathematics course or its equivalent numbered higher than MA 116 College Algebra; an ACT score in mathematics of at least 28 or an SAT score in mathematics of at least 640).

General Education Distribution Requirements

Washburn's General Education Distribution program is designed to provide all students with a breadth of knowledge across all the Student Learning Outcomes and the traditional areas of

1. Arts and Humanities;
2. Natural Sciences, Mathematics and Statistics; and
3. Social Sciences.

Completion of a minimum of nine hours (actual number depends on baccalaureate degree) is required in each of the three General Education Distribution groupings: Arts and Humanities, Natural Sciences and Mathematics, and Social Sciences to receive a baccalaureate degree (see Specific Degree Requirements below).

For associate degrees other than the associate of science, completion of a minimum of six hours (actual number depends on associate degree) is required in each of the groupings to receive an associate degree. For the associate of science degree a student must complete a minimum of 3 hours from Arts and Humanities, minimum of six hours in Natural Sciences and Mathematics (which includes the university math requirement), and a minimum of three hours in the Social Sciences. Distribution of the remaining hours will be determined by the department/program. A student must have a total of 18 hours of general education from the distribution groups for the associate of science degree. Where an associate degree specifies two or more courses in a distribution grouping, at least two of those courses must be taken in different disciplines within the grouping.

The individual student should check with the major department; in many cases, courses required by the major department in correlated areas will fulfill some of the General Education Distribution requirements.

General Education Distribution Approved Subject Areas/Designated Student Learning Outcomes and Specific Courses Arts and Humanities (GEHU)

Code	Title	Hours
Anthropology		
<i>CESS</i>		
AN 317	Peoples and Cultures of Africa	3

Art (GECP)*COM*

AR 120 2D Design: Digital Elements

CCT

AR 101 Survey of Art History, Prehistoric to Medieval

AR 102 Survey of Art History, Renaissance to Contemporary

AR 140 Drawing I

AR 141 Drawing II

AR 260 Ceramics I

AR 301 Ancient Art

AR 306 Development of Modern Art

AR 307 Twentieth Century Art

GED

AR 103 Introduction to Art

AR 303 Medieval/Renaissance Art History

AR 309 Art of Africa

AR 310 Art of Asia

Communication*COM*

CN 101 Introduction to Communication Studies

CN 150 Public Speaking

CN 341 Persuasive Speaking

CCT

CN 351 Interpersonal Communication

English^{1,2}*COM*

EN 103 Academic Reading & Research

EN 131 Understanding Short Fiction

EN 190 Film Appreciation

EN 206 Beginning Poetry Writing

EN 207 Beginning Nonfiction Writing

EN 208 Professional Writing

EN 209 Beginning Fiction Writing

CCT

EN 105 Introduction to English Studies

EN 112 Masterpieces of American Literature

EN 113 Medieval Popular Culture

EN 116 Mystery Literature

EN 135 Introduction to Literature

EN 138 Kansas Literature

EN 145 Shakespearean Afterlives

EN 177 Science Fiction

EN 178 Fantasy

EN 190 Film Appreciation

EN 192 Literature & Film

EN 210 Mythologies in Literature

EN 212 Sexuality & Literature

EN 214 Women & Literature

EN 240 Introduction to Film Studies

EN 332 Literature of American West

GED

EN 110 Multicultural American Literature

EN 133 Stories Around the World

Honors*CCT*

HN 201 Seminar Humanities Fine Arts

HN 301 Seminar Humanities Fine Arts

Interdisciplinary Studies*CCT*

WG 375 Women and Popular Culture

GED

WG 175 Introduction to Women's Studies

*ILT*IL 170 Library Research Strategies³**Mass Media***ILT*

MM 100 Introduction to Mass Media

MM 155 Sports and the Media

Modern Language⁴*GED*

FL 102 Beginning Foreign Language II

FR 102 Beginning French II

FR 201 Intermediate French I

FR 202 Intermediate French II

FR 307 Contemporary French Civilization

FR 308 French Literature in Translation

FR 309 French Fiction and Films

GE 102 Beginning German II

GE 201 Intermediate German I

GE 202 Intermediate German II

GE 307 Contemp German Civilization

GE 308 German Lit in Translation

JP 102 Beginning Japanese II

JP 201 Intermediate Japanese I

JP 202 Intermediate Japanese II

SP 102 Beginning Spanish II

SP 201 Intermediate Spanish I

SP 202 Intermediate Spanish II

SP 307 Contemporary Hispanic Culture

SP 308 Hispanic Narrative in Translation

SP 380 Hispanic Culture thru Film

Museum and Curatorial Studies (GEHU)*CCT*

MC 200 Introduction to Museum and Curatorial Studies 3

Music (GECP)*CCT*

MU 100 Enjoyment of Music

MU 103 Jazz History

MU 104 Movies & Music

MU 106 Introduction to World Music and its History

MU 108 History of American Rock & Roll

MU 307	Music and the Brain
<i>GED</i>	
MU 113	Music and Religion
MU 300	Music, Politics, Soc Comment.
<i>COM</i>	
MU 120	Fundamentals of Music Theory
Philosophy	
<i>CCT</i>	
PH 104	Introduction to Logic and Critical Thinking
PH 201	Corrupting the Youth: Ancient Greek Philosophy
PH 202	I think therefore I Am? Modern Philosophy 1600-1800
PH 203	Introduction to Buddhist Philosophy
PH/RG 207	Existence of God
<i>GED</i>	
PH 100	Introduction to Philosophy
PH 102	Ethics: Introduction to Moral Problems
PH 115	Philosophy of Love & Sex
PH 117	Creation, Evolution, Morality
PH 214	Medical Ethics
PH 313	Professional Ethics
PH 315	Philosophy of Law
<i>QSR</i>	
PH 220	Symbolic Logic
Religion	
<i>CCT</i>	
RG/PH 207	Existence of God
<i>GED</i>	
RG 101	Introduction to Religion
RG 102	World Religions
RG 105	Introduction to Jewish Scriptures
RG 106	Introduction to Christian Scriptures
Theatre (GECP)	
<i>COM</i>	
TH 103	Voice, Diction & Interpretation
TH 202	Acting I
<i>CCT</i>	
TH 101 & TH 301	Drama Classics on Video and Drama Classics on Video
TH 102	Introduction to Theatre
TH 206	Early Theatre History (Origins to 18th century)
TH 207	Late Theatre History (18th century to contemporary)
TH 306	Contemporary Theatre

¹ Excluding: EN 100 Developmental English, EN 101 First Year Writing, EN 102 Freshman English Honors, EN 300 Advanced College Writing

² Second lower division English composition transfer course counts as Humanities

³ This course may be used in any one of the three general education distribution areas.

⁴ FL 102 Beginning Foreign Language II, FR 102 Beginning French II, GE 102 Beginning German II, JP 102 Beginning Japanese II, SP 102 Beginning Spanish II may not be counted toward fulfillment of the general education requirement for the BA degree.

Natural Sciences, Mathematics and Statistics (GENS)

Code	Title	Hours
Astronomy		
<i>QSR</i>		
AS 101	Introduction to Astronomy/Cosmology	
AS 102	Introduction to Astronomy - Solar System	
AS 104	Life in the Universe	
Biology		
<i>CCT</i>		
BI 100	Introduction to Biology	
BI 102	General Cellular Biology	
BI 140	Introduction to Forensic Biology	
<i>GED</i>		
BI 203	Human Impact on the Environment	
<i>QSR</i>		
BI 101	Introductory Biology Laboratory	
BI 150	Evolution	
BI 202	Biology of Behavior	
Chemistry		
<i>CCT</i>		
CH 103	Introduction to Forensic Chemistry	
<i>QSR</i>		
CH 101	Chemistry in Context	
CH 121	General, Organic, and Biological Chemistry	
CH 126	RN-BSN General, Organic, Bio Chemistry	
CH 151	Fundamentals of Chemistry I	
CH 152	Fundamentals of Chemistry II	
CH 212	Chemistry of Food and Cooking	
Computer Information Sciences		
<i>ILT</i>		
CM 101	Computer Concepts and Applications	
CM 105	Introduction to Computer Science	
Geology		
<i>QSR</i>		
GL 101	Physical Geology	
GL 103	Historical Geology	
Honors		
<i>CCT</i>		
HN 203	Seminar Physical Science & Mathematics	
HN 303	Seminar Natural Sciences & Mathematics	
Interdisciplinary Studies		
<i>ILT</i>		
IL 170	Library Research Strategies ¹	
Mathematics ²		
<i>QSR</i>		
MA 117	Trigonometry	
MA 123	Pre-Calculus	

MA 131	Topics in Trigonometry and Introduction to Calculus
MA 140	Statistics
MA 141	Applied Calculus I
MA 151	Calculus & Analytic Geometry I

Physics

<i>QSR</i>	
PS 101	Introduction to Physics
PS 108	Physical Science
PS 120	Meteorology
PS 126	Physical Science for Elementary Educators
PS 131	Biological Physics for the Health and Life Sciences
PS 261	College Physics I
PS 281	General Physics I

¹ This course may be used in any one of the three general education distribution areas.

² Excluding: MA 112 Contemporary College Mathematics or MA 116 College Algebra, if taken for University requirements for baccalaureate degree. MA 112 Contemporary College Mathematics or MA 116 College Algebra will count toward distribution requirements for associate degrees or if both are taken for baccalaureate degree.

Social Sciences (GESS)

Code	Title	Hours
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African American and African Diaspora Studies

<i>GED</i>		
AD 200	Introduction to Critical Race & Ethnic Studies	

Anthropology

<i>CCT</i>		
AN 114	Introduction to Archaeology	
<i>GED</i>		
AN 112	Cultural Anthropology	
AN 113	Linguistic Anthropology	
<i>QSR</i>		
AN 116	Biological Anthropology	
AN 118	Introduction to Forensic Science	

Economics

<i>QSR</i>		
EC 100	Introduction to Economics	
EC 200	Principles of Microeconomics	
EC 201	Principles of Macroeconomics	

Geography

<i>GED</i>		
GG 101	Introduction to Geography	
GG 102	World Regional Geography	

History

<i>CCT</i>		
HI 105	Introduction to World Music and its History	
HI 111	History of the United States through the Civil War	

HI 112	History of the United States since the Civil War
HI 304	American Revolutionary Period, 1763-1789
HI 308	Making of Modern America, 1880-1920
HI 326	Anabaptism: The Radical Reformation and Beyond

<i>GED</i>	
HI 100	Survey of Early World History
HI 101	Changing World History: Traditions and Transitions
HI 102	Modern World History
HI 334	Civilization of Ancient Rome
HI 338	Victorian Britain, c. 1830-WWI
HI 363	Borderlands and Beyond

Honors

<i>CCT</i>	
HN 202	Seminar in the Social Sciences
HN 302	Seminar in the Social Sciences

Interdisciplinary Studies

<i>GED</i>	
KS 340	Kansas Studies
<i>ILT</i>	
IL 170	Library Research Strategies ¹

Kinesiology

<i>CCT</i>	
KN 248	Wellness Concepts and Applications

Leadership

<i>CCT</i>	
LE 100	Exploring the Concept of Leadership

Political Science

<i>CCT</i>	
PO 225	Introduction to International Politics
PO 255	Introduction to the American Legal System
<i>GED</i>	
PO 106	The Government of the United States
PO 107	Kansas and the U.S., State and Local Government
PO 235	Governments of the World: Comparative Politics

Psychology

<i>CCT</i>	
PY 100	Basic Concepts in Psychology
PY 306	Cognition
PY 317	Music and the Brain
<i>GED</i>	
PY 210	Psychology of Infancy and Childhood
PY 211	Adolescent Psychology
PY 231	Abnormal Psychology
<i>ILT</i>	
PY 212	Psychology of Adulthood and Aging

Sociology

<i>CCT</i>	
SO 101	Social Problems

GED

SO 100 Introduction to Sociology

¹ This course may be used in any one of the three general education distribution areas.

General Education Requirements for Specific Bachelor & Associate Degrees

Bachelor of Arts

A student must have 15 hours in Arts and Humanities with at least 3 of those hours selected from the area of Art, Music, or Theatre and the remaining credit hours from at least two other disciplines. The student must have 12 hours in Natural Sciences and Mathematics. The credit hours must include courses from at least two disciplines other than Mathematics. The student must have 15 hours in Social Sciences. No more than 6 hours may be counted for General Education credit from any one discipline except in Biology, Chemistry, Physics, or Mathematics where up to 8 hours may be counted if earned in two separate General Education courses.

The student must also complete the 102 level course, or the equivalent, in one of the languages offered by the Department of Modern Languages. Students must earn a D or better grade, or CR/P credit, in order to fulfill the foreign language requirement. Course work taken to fulfill this requirement may not be applied toward general education requirements for the BA degree. Equivalents of the course work are defined as follows:

- Successful completion of a similar course of study in a foreign language taken at an accredited post-secondary institution.
- Successfully challenging the departmentally administered 102 level examinations or a score of "4" or higher on the AP or CLEP foreign language examinations. Note: Native speakers of a language other than English may not receive credit for any 100 level courses in that language.
- Acceptance into a regular credit-bearing academic program of study by students whose native language is not English.

Bachelor of Integrated Studies, Bachelor of Public Administration

A student must have 15 hours in Arts and Humanities with at least 3 of those hours selected from the area of Art, Music, or Theatre and the remaining credit hours from at least two other disciplines. The student must also have 12 hours in Natural Sciences and Mathematics. The credit hours must include courses from at least two disciplines other than Mathematics. The student must also have 15 hours in Social Sciences. No more than 6 hours may be counted for General Education credit from any one discipline except in Biology, Chemistry, Physics, or Mathematics where up to 8 hours may be counted if earned in two separate General Education courses.

Candidates for the Bachelor of Integrated Studies degree cannot use courses identified as satisfying the Individualized Study Program (ISP) or the Multi-disciplinary Study Program (MDSP) to fulfill their General Education distribution requirement.

Bachelor of Applied Science, Bachelor of Business Administration, Bachelor of Criminal Justice, Bachelor of Fine Arts, Bachelor of Health Science, Bachelor of Legal Studies, Bachelor of Science, Bachelor of Science in Nursing, Bachelor of Music with a major in Education or Performance, or Bachelor of Musical Arts

A student must have 9 hours in each of the three distribution groups with courses selected from at least two disciplines in each group, to include 3 hours in Art, Music, or Theatre within the 9 hours of Arts and Humanities. No more than 6 hours may be counted for General Education credit from any one discipline except in Biology, Chemistry, Physics, or Mathematics where up to 8 hours may be counted if earned in two separate General Education courses.

Candidates for the Bachelor of Business Administration degree cannot use Economics courses to fulfill the General Education social science requirement. The Bachelor of Science in Nursing has additional specified course requirements that fall within the distribution groups.

Note: Bachelor of Science Degree Requirement - A thirty hour concentration chosen from the Natural Sciences and Mathematics Division in departments other than the major, and with at least 20 of these hours in one department. All coursework taken to meet the concentration in Natural Sciences must be a grade of "C" or better.

Bachelor of Education (majors in elementary education, physical education, biology, and mathematics)

A student should consult with the appropriate department for departmental and general education course requirements.

Bachelor of Social Work

A student must have 12 hours in the Arts and Humanities, 3 hours of which must be in Art, Music, or Theatre, and 9 hours in Natural Sciences and Mathematics with some specified courses. Twelve hours are required in Social Sciences with specific course requirements. No more than 6 hours may be counted from any one discipline except in Biology, Chemistry, Physics, or Mathematics where up to 8 hours may be counted if earned in two separate General Education courses. Please read the Social Work section of this catalog for further information.

Associate of Arts, Associate of Liberal Studies

A student must complete 6 hours from the Arts and Humanities, 6 hours in Natural Sciences and Mathematics, and 6 hours in the Social Sciences, with courses selected from at least two disciplines in each distribution group.

Associate of Science

A student must complete a minimum of 3 hours from Arts and Humanities, minimum of 6 hours in Natural Sciences and Mathematics (which includes the university math requirement), and a minimum of 3 hours in the Social Sciences. Distribution of the remaining hours will be determined by the department/program. A student must have a total of 18 hours of general education from the distribution groups for the associate of science degree. Where an associate degree specifies two or more courses in a distribution grouping, at least two of those courses must be taken in different disciplines within the groupings.

Academic Programs

College of Arts and Sciences Degree Programs

Creative and Performing Arts

- Art (BA)
 - Art
 - Art History
- Art (BFA)
 - Art (with concentrations in):
 - Art History
 - Ceramics and Sculpture
 - Drawing and Painting
 - Graphic Design and Electronic Arts
 - Photography
 - Printmaking
 - Art Education with Teacher Licensure
- Mass Media (BA)
 - Contemporary Journalism (BA)
 - Creative Advertising (BA)
 - Film and Video (BA, Minor)
 - Public Relations (BA)
 - Applied Media (Minor Only)
- Music (BA, BMA, BM)
 - Music (BA)
 - Music (BMA)
 - Music Education (BM)
 - Preschool-Grade 12 Education
 - Music Performance (BM)
 - Brass, Strings, Percussion, Guitar, Woodwinds
 - Piano or Organ
 - Voice
 - Jazz Studies (Minor Only)
- Theatre (BA, BEd)
 - Theatre (BA)
 - Musical Theatre (BA)
 - Speech and Theatre (BEd)

Humanities

- Communication Studies (BA, BEd, MA)
 - Communication (BA)
 - Speech and Theatre (BEd)
 - Communication and Leadership (MA)
- English (BA, BEd)
 - Literature & Film Criticism (BA)
 - Creative Writing (BA)
 - Secondary Education (BA, BEd)
- Humanities & Creative Performing Arts (AA)
- Modern Languages (BA)
 - French
 - Spanish
 - Preschool-Grade 12 Education
 - International Studies (Minor Only)

- Philosophy (BA)
- Religious Studies (BA)

Natural Sciences and Mathematics

- Biology (BA, BS, BEd)
 - Biology (BA, BS)
 - Biology Secondary Education (BEd)¹
 - Environmental Biology (BA, BS)
 - Forensic Biology (BS)
 - Molecular Biology and Biotechnology (BS)
 - Secondary Education (BS)
- Chemistry (BA, BS, AA)
 - Chemistry (BA, BS)
 - Biochemistry (BA, BS)
 - Forensic Chemistry (BS, Minor)
 - Secondary Education (BA, BS)
 - Laboratory Science (AA)
- Computer Information Science (BS, BA, AA)
 - Computer Information Science (BS, BA)
 - Digital Forensic Concentration (BA, Minor)
 - Data Science Concentration (BS)¹
- General Science (BS)
- Mathematics (BA, BS, BEd)
 - Mathematics (BA, BS)
 - Actuarial Science (BA, BS)
 - Applied Statistics (BA, BS, Minor)
 - Mathematics Secondary Education (BA, BS, BEd)
 - Game Design (Minor Only)
- Natural Science & Mathematics (AA)
- Physics (BA, BS, AS)
 - Physics (BA, BS)
 - Computational Physics (BS)
 - Engineering-Physics (AS)

Social Sciences

- Anthropology (BA, BS)
 - Anthropology (BA)
 - Anthropology, Forensics Concentration (BS)
- Economics (BA)
- History (BA)
 - History (BA)
 - Secondary Education (BA)
 - History Secondary Education (BEd)¹
- Political Science (BA, BEd)
 - Political Science (BA)
 - Government and Political Science Secondary Education (BEd)¹
- Public Administration (BPA, C)
 - Public Administration (BPA)
 - Non Profit Management (C)
- Psychology (BA, MA)
 - Psychology (BA)
 - Clinical Psychology (MA)
- Sociology (BA)

Education and Kinesiology

- Education (AA, BEd, MEd)
 - Early Childhood Education (AA)
 - Elementary Education (BEd)
 - Elementary Education with additional concentrations
 - Middle School English/Language Arts
 - Middle School Mathematics
 - High Incidence Special Education
 - English for Speakers of Other Languages
 - Middle Grades STEM (BEd)¹
 - P-12 – Licensure
 - Secondary – Licensure
 - Reading Specialist (MEd)
 - Curriculum and Instruction (MEd)
 - Educational Studies
 - Educational Technology
 - Literacy
 - Building Leadership (MEd)
 - District Leadership – Added Endorsement
 - High Incidence Special Education (MEd)
- Kinesiology (BA, BS, BEd)
 - Exercise and Rehabilitation Science (BS)
 - Health and Fitness Promotion (BA)
 - Sport Management (BA)
 - Coaching (Minor Only)
 - Fitness (Minor Only)
 - Athletic Training (BS)²
 - Physical Education (BEd)
 - P - 12 Teaching Emphasis (BEd)
 - P - 12 Teaching (Licensure Only)

Interdisciplinary Programs

- African American and African Diaspora Studies (Minor Only)¹
- Civic Engagement - Poverty Studies (Minor Only)
- Gerontology (Minor Only)
- Information Literacy Studies (Minor Only)
- Integrated Studies (BIS)
 - Administrative Communication
 - Individualized Studies
 - Liberal Arts Program
 - Web Technology Utilization
- Kansas Studies (Minor Only)
- Leadership Studies (C, Minor)
- Law Early Admission Program
- Liberal Studies (ALS)
- Latin American, Caribbean, and Latino(a) Studies (Minor Only)
- Museum and Curatorial Studies (Minor Only)¹
- Peace, Justice, and Conflict Resolution Studies (Minor Only)
- Women's and Gender Studies (Minor Only)

School of Business Degree Programs

- Accountancy (BBA, MAcc)
 - Accounting (BBA)
 - Accounting (MAcc 30-hour Flexible Program; MAcc 3+2 Program)

- Business (Minor Only)
- Business Administration (MBA)
- Business Data Analytics (BBA)¹
- Economics (BA, BBA, Minor)
- Entrepreneurship (C)
- Entrepreneurship and Innovation (BBA)
- Finance (BBA)
- General Business (BBA)
- International Business (BBA, Minor)
- Kansas Insurance (C)
- Management (BBA)
- Marketing (BBA)
- Dual Juris Doctor/MBA Degree (J.D./MBA)
- Dual Juris Doctor/MAcc Degree (J.D./MAcc)

School of Nursing Degree Programs

- Nursing (BSN, DNP)
- Post-Graduate Psychiatric/Mental Health Nurse Practitioner (C)
- LPN to BSN Articulation (BSN)
- RN to BSN Articulation (BSN)

School of Applied Studies Degree Programs

Allied Health

- Diagnostic Medical Sonography (C)
 - General Sonography
 - Vascular Sonography
 - Cardiac Sonography
- Health Care Education (C, MHS)
- Health Information Coding (C)
- Health Information Technology (AS)
- Health Services Administration (BHS)
- Medical Imaging (BHS)
- Medical Laboratory Science (BHS)
- Occupational Therapy Assistant (AS)
- Physical Therapist Assistant (AS)
- Radiation Therapy (C)
- Radiologic Technology (AS)
 - Magnetic Resonance Imaging (C)
- Respiratory Therapy (AS)
- Surgical Technology (AS)
- Technology Administration (BAS)

Criminal Justice & Legal Studies

- Criminal Justice (BCJ, MCJ)
 - Corrections (BCJ)
 - Forensic Investigations (BCJ)
 - Law Enforcement (BCJ)
 - Security Administration (BCJ)
- Legal Studies (BLS, AA, C)
- Military & Homeland Security (Minor Only)
- Dual Juris Doctor/MCJ Degree (J.D./MCJ)

Family and Human Services

- Family and Human Services (AA, BAS, MA)
 - Family Services (BAS)
 - Addiction Counseling (BAS, MA)
 - Gerontology (Minor Only)
 - Addiction Counseling (C)
 - Trauma and Recovery (C)
 - Non-Profit Management (C)

Social Work

- Social Work (BSW, MSW)
- Dual Juris Doctor/MSW Degree (J.D./MSW)

Washburn University Institute of Technology/Washburn University

Associate Programs (AA, AS)

- Office Administration (AA)
- Culinary Arts (AA)
- Family and Human Services - Early Childhood Professional (AA)
- Surgical Technology (AS)
- Design Technology
 - Graphics Technology (AA)
 - Technical Drafting (AS)
- Industrial Technology (AS)
 - Advanced Systems Technology
 - Auto Collision
 - Automotive Service Technician
 - Cabinet/Millwork
 - Climate & Energy Control Technologies
 - Commercial & Heavy Construction
 - Information Systems Technology
 - Diesel Technology
 - Heavy Diesel Construction Tech
 - Machine Tool
 - Welding

¹ Pending Washburn University Board of Regents approval

² No new majors accepted

C = Certificate of Completion

Washburn Institute of Technology

Washburn University and Washburn University Institute of Technology (i.e., Washburn Tech) have a unique affiliation agreement for offering programs within the state of Kansas. Washburn Tech offers certificate programs with supervision and approval from administrators at Washburn University, the Washburn University Board of Regents, the Kansas Board of Regents (Technical Education Authority), and the Higher Learning Commission. In addition, some programs are reviewed by specific discipline-based accrediting agencies.

For information regarding the certificate offerings at Washburn Tech, please refer to the Washburn University Institute of Technology catalog (<https://catalog.washburn.edu/washburn-institute-technology/>).

College of Arts and Sciences

Mission

The College of Arts and Sciences seeks to engage students in a principled search for intellectual growth and development. In the same progressive spirit that motivated its founders, the College strives to provide all students an education in the liberal arts and sciences, so they may acquire, create, communicate, and integrate knowledge to enrich their own lives and be prepared for positions of responsibility as active citizens of their local communities and our global society. The College promotes community engagement, interdisciplinary opportunities, small classes, and diversity in its faculty and student body.

History

From its inception, the College of Arts and Sciences has been entrusted with the responsibility for providing the liberal education central to the mission of Washburn University. Maintaining a standard of excellence in all of its programs, the College strives to motivate and challenge students to develop creative thinking, aesthetic awareness, and discriminating judgment, as well as a sense of purpose and a zeal for continued independent and formal learning.

Through its faculty, the College remains the advocate for liberal education as a force for adaptation to an everchanging world. Faculty commitment to the triad of teaching, scholarship, and service helps guide students in specialized ways while exposing them to broad areas of knowledge encompassed by liberal education. This combination of generalized and specialized learning leads to the integrated understanding characteristic of an educated person.

Why a College of Arts and Sciences Degree?

The College of Arts and Sciences promotes “learning for a lifetime” across a variety of disciplines. Although the content and focus of course work may vary across disciplines, several themes characterize all departments and programs within Arts and Sciences. Faculty pay attention to students as individuals. Course offerings are designed to meet the needs of a diverse student population. Students work with Ph.D.’s from the beginning of their academic careers. Majors are well-known as individuals and valued as members of a departmental family. Alumni have gone on to do extraordinary things. Among the graduates of the college are a Nobel Prize winner, Governors, CEOs, Members of Congress, Presidential candidates, nationally recognized coaches, world-renowned scientists, entrepreneurs, academics, and writers.

Arts and Sciences students win honors. The debate team has won several national championships in American parliamentary debate. Math, science, and social science majors regularly publish their scholarship. Humanities and performing arts students frequently receive prestigious awards. Year after year, Arts and Sciences graduates are accepted into esteemed graduate and professional schools or go immediately into interesting jobs and begin making important contributions to their communities.

Success in every profession depends on the ability to think critically, recognize new trends, find the key questions in new contexts, and recognize the consequences of new answers. The College provides students with the skills necessary to meet future challenges.

The College of Arts and Sciences offers a broadly based liberal education for all students, regardless of their specific objectives. The College also promotes career-oriented endeavors, including a number of terminal programs and practical experiences in the field, and prepares qualified students for graduate and professional schools.

Graduation Requirements

Each candidate for a degree must meet the general requirements for graduation and the specific requirements for the degree desired.

Declaring A Major

In order to ensure the early and proper selection of a field of concentration, students seeking a baccalaureate degree are expected to file a declaration of major by the time they have completed 54 hours. Declaration of a major is made by visiting or contacting the prospective major department. After the information has been submitted, the student will receive an e-mail confirming the declaration or change and if approved, an advisor will be assigned.

Optional Minor

An Optional Minor for the Bachelor of Arts degree in the College of Arts and Sciences shall consist of no less than 15 hours in one discipline as specified by the department. Of these, at least 6 hours must be at the upper division level. Students must have a grade of C or better in each course in the Optional Minor. The Optional Minor is not to be confused with any department's required minor or required correlated courses.

Requirements for all Arts and Sciences Baccalaureate Degrees

To receive a BA, BEd, BFA, BM, BMA, BPA, or BS degree from Washburn University, a student must complete a minimum of 84 semester hours of credit in courses that either are offered in the College of Arts and Sciences or would normally be taught by a discipline in a college of arts and sciences.

Bachelor of Arts Degree

Each candidate for the degree is required to complete the following:

- A minimum of 120 hours, 84 of which must be graded and 45 of which must be at the 300 or 400 level.
- A major consisting of no less than 24 hours in the discipline, of which at least 12 must be at the upper division level.
- Eighty hours outside the major discipline.
- A grade of C or better in MA 112 Contemporary College Mathematics, MA 116 College Algebra, or a course with MA 116 College Algebra as a prerequisite.
- EN 101 First Year Writing (or EN 102 Freshman English Honors) and EN 300 Advanced College Writing.
- The 102-level course in one of the languages offered by the Department of Modern Languages, or the equivalent. Course work taken to fulfill this requirement may not be applied toward general education requirements for completing the BA degree. Equivalents of the required course work are defined as follows:
 - Successful completion of a similar course of study in a foreign language taken at an accredited post-secondary institution.

- Successfully challenging the departmentally administered 102 level examinations or a score of "4" or higher on the AP or a score of 63 on the CLEP foreign language examinations.

Note: Native speakers of a language other than English may not receive credit for any 100 level courses in that language.

- Students must complete 15 hours in Arts and Humanities with at least 3 hours selected from the area of Art, Music, or Theatre; the remaining credit hours must be selected from at least two other disciplines. To meet the distribution requirement in the Social Sciences, students must complete 15 hours, from this group, with no more than 6 hours counted from any one discipline in Social Sciences. To meet the distribution requirement in Natural Sciences and Mathematics, students must complete 12 hours of Natural Sciences and Mathematics courses; the credit hours must include courses from at least two disciplines other than Mathematics. No more than 6 hours may be counted for General Education credit from any one discipline except in Biology, Chemistry, Physics, or Mathematics where up to 8 hours may be counted if earned in two separate General Education courses. Courses are selected in consultation with an advisor from the approved courses in each of the distribution groupings.
- Candidates must have a cumulative grade point average of at least 2.0 and a grade of C or better in each course in the major, required correlate courses and the two required English composition courses. A double major may be completed within the 120 hour total by meeting all the requirements of the two majors. Students may also elect a minor in the College of Arts and Sciences. The minor shall consist of no less than 15 hours specified by the department of which at least 6 must be at upper division level. Candidates for a minor must have a grade of C or better in each course in the minor. This optional minor is not to be confused with any department's required minor or required correlated courses. See the Student Services and Academic Support section of the catalog concerning hours transferred to Washburn University.

Bachelor of Fine Arts Degree

Each candidate for the degree is required to complete the following:

- One hundred twenty-three hours, 84 of which must be graded and 45 of which must be at the 300-400 level.
- A major consisting of no less than 84 hours. BFA with Teacher Licensure includes courses from both Art and Education Departments as major requirements. (See Art Department for specific requirements for each concentration).
- EN 101 First Year Writing (or EN 102 Freshman English Honors) and EN 300 Advanced College Writing, and 3 hours of MA 112 Contemporary College Mathematics or MA 116 College Algebra.
- Nine hours in each of the three distribution groups (Arts and Humanities, Social Sciences, and Natural Sciences and Mathematics) with courses selected from at least two disciplines in each group, to include 3 hours in Music, or Theatre within the 9 hours of Arts and Humanities. Courses are selected in consultation with an advisor from the approved courses in each of the distribution groupings.
- Candidates must have a cumulative grade point average of at least 2.0 and a grade of C or better in each course in the major, in English Composition and in the course taken to satisfy the University Mathematics requirement. See the Student Services and Academic

Support Section of the catalog concerning hours transferred to Washburn University.

Bachelor of Education Degree

The Bachelor of Education degree is designed to meet the needs of those who want to teach at the early childhood, elementary school or middle school levels and those who plan to teach physical education.

The Bachelor of Education Degree requires at least 48 semester hours of credit in general education with specific course requirements in Social Science, Natural Science, and Humanities and Creative and Performing Arts. The Department of Education requires regular academic advising to facilitate the student's successful completion of degree requirements.

To obtain a Kansas Teaching Certificate, the student must satisfy Kansas State Department of Education Certificate requirements in addition to degree requirements.

Majors in the P-12 Physical Education Teaching Emphasis must meet the specific requirements of the selected specialization as described in the Kinesiology section of this catalog.

Bachelor of Integrated Studies

Candidates for the BIS degree must meet all requirements for the Bachelor of Arts degree with the following exceptions:

- No major requirements.
- No foreign language requirement.
- No minimum requirement for credit hours within the College of Arts and Sciences.

Candidates for the BIS degree are required to work with the BIS Director to develop an Individualized Study Program (ISP) or complete requirements for a pre-approved multi-department study program (MDSP). An ISP/MDSP consists of a minimum of 30 graded hours, including 12 hours of 300-400 level courses and a capstone project or internship approved by BIS Director.

A grade of "C" or better is required for designated courses in ISP or MDSP.

Courses applied to General Education distribution requirements may not be utilized to meet ISP/MDSP requirements.

Bachelor of Music Degree

Candidates for the degree, Bachelor of Music, may choose a major in music performance or a major in music education. All students graduating with the Bachelor of Music degree will be expected to appear in recital. Participation in two large ensembles or accompanying is required during each semester of full-time enrollment. In addition, all full-time students are required to attend recitals and programs.

Music Performance Major

The major in music performance consists of a total of 121 hours, including 24 hours in private lessons. Those electing the performance major must complete six hours of English Composition, three of which must be at the upper division level (EN 300). In consultation with the advisor, the student must elect nine hours in each of the three distribution groups (Arts and Humanities, Social Sciences, and Natural Sciences and Mathematics) with courses selected from at least two disciplines in each group, to include 3 hours in Art, Music, or Theatre within the 9 hours of Arts and Humanities. Courses are selected in consultation with an advisor from the approved courses in each of the distribution groupings.

Music courses may not be used in fulfilling the Humanities requirements. Candidates must have a cumulative grade point average of at least 2.0 and a grade of C or better in each course in music, in English Composition and in course taken to satisfy University Mathematics requirement.

Music Education Major

This program is designed for those who wish to teach in public or private schools. Students who pursue the P-12 Music Education Degree must meet the specific requirements of the selected specialization as described in the Music section of this catalog and the Music Student Handbook. The successful completion of program requirements satisfies Kansas State Department of Education requirements for eligibility to apply for licensure to teach in public schools.

Bachelor of Musical Arts

The program leading to the Bachelor of Musical Arts degree is designed for students planning to pursue a diverse array of professional careers in music. The BMA is a flexible and personalized degree that requires a complementary minor outside of music. With the help of the academic advisor, the student also selects a track of music electives that form an emphasis beyond the core music requirements.

The BMA consists of a total of 120 hours, including 14 hours in private lessons. Those pursuing this degree must complete six hours of English Composition, three of which must be at the upper division level (EN 300). In consultation with the advisor, the student must elect nine hours in each of the three distribution groups (Arts and Humanities, Social Sciences, and Natural Sciences and Mathematics) with courses selected from at least two disciplines in each group, to include 3 hours in Art or Theatre within the 9 hours of Arts and Humanities and 3 hours in HI 105 Introduction to World Music and its History within the 9 hours of Social Sciences. Music courses may not be used in fulfilling the Humanities requirements. Candidates must have a cumulative grade point average of at least 2.0 and a grade of C or better in each course in music, in English Composition and in the course taken to satisfy University Mathematics requirement.

Bachelor of Public Administration Degree

The Bachelor of Public Administration (BPA) degree is designed to meet the needs of students seeking careers in the public or quasi-public sector or seeking to continue their education in professional programs.

Each candidate for the degree is required to complete the following:

- One hundred twenty-four hours, 84 of which must be graded and 45 of which must be at the 300-400 level.
- A major consisting of at least 30 hours, but not in excess of 40 hours, in Political Science Courses. At least 15 of these hours will be in upper division courses. See Political Science in the index.
- Eighty-four hours outside the major.
- EN 101 First Year Writing (or EN 102 Freshman English Honors) and EN 300 Advanced College Writing with a grade of C or better.
- Students must complete 15 hours in Arts and Humanities with at least 3 hours selected from the area of Art, Music, or Theatre; the remaining credit hours must be selected from at least two other disciplines. To meet the distribution requirement in the Natural Sciences and Mathematics, students must complete 12 hours of Natural Sciences and Mathematics courses; the credit hours must include courses from at least two disciplines other than Mathematics. Students must complete 15 hours in Social Sciences. No more than 6 hours may be counted for General Education credit

from any one 101 discipline except in Biology, Chemistry, Physics, or Mathematics where up to 8 hours may be counted if earned in two separate General Education courses. Courses are selected in consultation with an advisor from the approved courses in each of the distribution groupings.

- Candidates must have a cumulative grade average of at least 2.0 and a grade of C or better in each course in the major, required correlate courses, English composition, and course taken to satisfy the University Mathematics requirement.

Bachelor of Science Degree

Each candidate is required to complete the following:

- A minimum of 120 hours, 84 of which must be graded and 45 of which must be at the 300-400 level.
- A major consisting of at least 30 hours, and no more than 48 in one department, of which 12 must be at the upper division level.
- A 30 hour concentration chosen from the Natural Sciences and Mathematics Division in departments other than the major, and with at least 20 of these hours in one department. The 30 hours must be approved by the student's major department chairperson.
- Seventy-two hours outside the major discipline, 30 of which must be allocated to the required concentration.
- Nine hours in each of the three distribution groups (Arts and Humanities, Social Sciences, and Natural Sciences and Mathematics) with courses selected from at least two disciplines in each group, to include 3 hours in Art, Music, or Theatre within the 9 hours of Arts and Humanities. Courses are selected in consultation with an advisor from the approved courses in each of the distribution groupings.
- MA 116 College Algebra or a course with MA 116 College Algebra as a prerequisite with a grade of C or better.
- EN 101 First Year Writing (or EN 102 Freshman English Honors) and EN 300 Advanced College Writing.
- Candidates must have a cumulative grade point average of at least 2.0 and a grade of C or better in each course in the major and concentration and in English Composition. See the Student Services and Academic Support section of this catalog concerning hours transferred to Washburn University.

In addition to offering the traditional Bachelor of Science Degree in Physics or Mathematics, Washburn University offers a 3-2 engineering program in cooperation with Kansas State University and the University of Kansas. Under this program a typical student will take three years of prescribed curriculum at Washburn and then transfer to Kansas State University or the University of Kansas. Upon completion of one year of prescribed work at either of the institutions named, the student will be awarded the Bachelor of Science degree from Washburn, and upon completion of the requirements of the selected school, the appropriate engineering degree will be awarded by that school. Bachelor of Science candidates should meet with the chairperson of their major department no later than their third semester to complete a declaration of major form.

Bachelor of Science in General Science

An alternative program to the Bachelor of Science described above is the Bachelor of Science in General Science. A student may elect this program by substituting the following requirements for the major and minor requirements listed above. The candidate must take at least eight hours of course work in each of the subject areas of Biology, Chemistry, Computer Information Sciences, Mathematics and Physics/Astronomy. These hours must be in courses that would count toward a major in each

of the respective departments. Also, an additional 20 hours of course work that would be appropriate for majors in the listed departments must be completed by the student, at least 12 hours of which must be in upper division courses. Students desiring middle school teaching certification in General Science should contact the certification office in the Department of Education for specific requirements relative to that certification.

Associate Degrees

The following Associate degrees are offered in the College of Arts and Sciences:

- Associate of Liberal Studies (ALS)
- Computer Information Systems (AA)
- Humanities and Creative and Performing Arts (AA)
- Laboratory Science (AA)
- Natural Science and Mathematics (AA)
- Engineering (AS)

See requirements common to all Associate degrees. For specific requirements of the Associate degrees in Computer Information Sciences, contact the Computer Information Sciences department; for the remaining degrees, see appropriate academic department.

Programs

- Actuarial Science Specialization, BA-BS (p. 170)
- Administrative Communication, BIS (p. 151)
- African American and African Diaspora Studies (p. 81)
- Anthropology (Forensic Concentration), BS (p. 85)
- Anthropology, BA (p. 84)
- Anthropology, Minor (p. 85)
- Applied Media, Minor (p. 164)
- Applied Statistics Specialization, BA-BS (p. 170)
- Applied Statistics, Minor (p. 171)
- Art Education, BFA (p. 90)
- Art History, BA (p. 90)
- Art History, Minor (p. 95)
- Art, BA (p. 90)
- Bachelor of Fine Arts Degree (BFA) (p. 91)
- Bachelor of Music (p. 187)
- Bachelor of Musical Arts (p. 194)
- Bachelor's Degree (BPA) in Public Administration (p. 206)
- Biochemistry, BA (p. 109)
- Biochemistry, BS (p. 109)
- Biology Major with Secondary Education Specialization, BS (p. 103)
- Biology Secondary Education, BEEd (p. 104)
- Biology, BA and BS (p. 99)
- Biology, Minor (p. 105)
- Chemistry Major for Secondary Education Teachers, BA or BS (p. 110)
- Chemistry, BA (p. 108)
- Chemistry, BS - Certified by the American Chemical Society (p. 108)
- Chemistry, BS - Not Certified by the American Chemical Society (p. 109)
- Chemistry, Minor (p. 110)

- Communication Studies, BA (p. 114)
- Communication Studies, Minor (p. 114)
- Computational Physics, BS (p. 202)
- Computer Information Science (Data Science Concentration), BS (p. 119)
- Computer Information Science (Digital Forensics Concentration), BA (p. 118)
- Computer Information Science in Digital Forensics, Minor (p. 120)
- Computer Information Science, AA (p. 119)
- Computer Information Science, BA (p. 118)
- Computer Information Science, BS (p. 117)
- Computer Information Science, Minor (p. 120)
- Content-Specific Licensure Programs (p. 131)
- Creative Writing, BA (p. 140)
- Early Childhood Education, AA (p. 132)
- Economics, BA (p. 121)
- Economics, Minor (p. 121)
- Elementary Education, BEd (p. 129)
- Engineering Physics, AS (p. 202)
- Engineering-Physics, AS (p. 134)
- English Education, BA (p. 140)
- English Literature and Film Criticism, BA (p. 140)
- English, Minor (p. 141)
- Environmental Biology, BA and BS (p. 100)
- Film and Video, Minor (p. 164)
- Foreign Language Licensure K-12, BA (p. 178)
- Forensic Biology, BS (p. 101)
- Forensic Chemistry, BS (p. 110)
- Forensic Chemistry, Minor (p. 111)
- French or Spanish Minor (p. 178)
- French, BA (p. 177)
- Game Design, Minor (p. 171)
- Government and Political Science Secondary Education, BEd (p. 206)
- History Secondary Education, BEd (p. 148)
- History, BA (p. 147)
- History, Minor (p. 149)
- Humanities and Creative and Performing Arts, AA (p. 149)
- International Business, Minor (p. 178)
- International Studies, Minor (p. 179)
- Jazz Studies, Minor (p. 195)
- Kinesiology in Coaching, Minor (p. 158)
- Kinesiology in Exercise and Rehabilitation Science, BS (p. 156)
- Kinesiology in Fitness, Minor (p. 159)
- Kinesiology in Health and Fitness Promotion, BA (p. 156)
- Kinesiology in Sport Management, BA (p. 157)
- Laboratory Science, AA (p. 111)
- Liberal Arts Program Emphasis, BIS (p. 151)
- Liberal Studies (p. 159)
- Mass Media, BA (p. 163)
- Mass Media, Minor (p. 164)
- Mathematics and Statistics, Minor (p. 171)
- Mathematics, BA-BS (p. 169)
- Middle Grades STEM, BEd (p. 131)
- Molecular Biology and Biotechnology, BS (p. 102)
- Museum and Curatorial Studies (p. 179)
- Music Education, BM (p. 188)
- Music Performance, BM (p. 190)
- Music, BA (p. 186)
- Music, Minor (p. 195)
- Musical Theatre, BA (p. 219)
- Natural Sciences and Mathematics, AA (p. 196)
- Non-Profit Management, Certificate (p. 208)
- P-12 Physical Education Teaching, BEd (p. 158)
- Philosophy, BA (p. 199)
- Philosophy, Minor (p. 199)
- Physics, BA (p. 202)
- Physics, BS (p. 201)
- Physics, Minor (p. 202)
- Political Science, BA (p. 205)
- Political Science, Minor (p. 207)
- Psychology, BA (p. 211)
- Psychology, Minor (p. 211)
- Public Administration, Minor (p. 207)
- Religious Studies, BA (p. 213)
- Religious Studies, Minor (p. 213)
- Secondary Mathematics, BA-BEd-BS (p. 170)
- Secondary Social Studies - Preparation for Teachers, BA (p. 147)
- Sociology, BA (p. 215)
- Sociology, Minor (p. 216)
- Spanish, BA (p. 178)
- Studio Art, Minor (<https://catalog.washburn.edu/undergraduate/college-arts-sciences/art/art-minor/>)
- Theatre Studies, Minor (p. 219)
- Theatre, BA (p. 218)
- Web Technology Utilization Emphasis, BIS (p. 150)
- Women's and Gender Studies (p. 219)

African American and African Diaspora Studies

The Washburn University African American and African Diaspora Studies (AAADS) is an interdisciplinary program that examines the societies and cultures of people of African descent around the globe. This includes the ideas, institutions, and practices that African Americans and people throughout the African diaspora have used to survive and shape the modern world. For more information, contact the minor director, Dr. Mary Sundal, in the Sociology/Anthropology Department and see the "Interdisciplinary Academic Programs (p. 38)" section in the catalog.

Anthropology Department of Sociology and Anthropology

Website: <https://www.washburn.edu/anso> (<https://www.washburn.edu/anso/>)

Faculty

Professor Mary Sundal, PhD, Chair
 Associate Professor Alexandra Klales, PhD
 Associate Professor Sangyoub Park, PhD
 Assistant Professor Lindsey Ibañez, PhD
 Assistant Professor Jason Miller, PhD
 Assistant Professor Laura Murphy, PhD
 Lecturer Ashley Maxwell, PhD
 Lecturer Alexander Myers, MA

Description of Anthropology

Anthropologists try to answer the fundamental question “What makes us human?” through a global and holistic approach. American anthropology includes four subfields: archaeology, the study of the human past; biological anthropology, the study of human evolution and variation; cultural anthropology, the study of human cultures; and linguistic anthropology, the study of human languages.

The Major

Both the BA and BS degrees in Anthropology are designed to prepare students to be competitive as applicants to a variety of graduate school programs or immediately in the labor market.

Departmental Honors

To earn department honors, majors must achieve a 3.5 or higher GPA in all Anthropology courses and successfully complete one of the following:

- An Anthropology supervised study course (AN363 Internship; AN 366 Directed Readings; or AN 367 Directed Research).
- A Washburn Transformational Experiences (WTE)
- A project agreed upon in advance by the student, department chair, and instructor of record.

Students are encouraged to begin these projects no later than the first semester of their senior year. More information about department honors is available from the department chair or academic advisor.

Programs

- Anthropology, BA (p. 84)
- Anthropology (Forensic Concentration), BS (p. 85)
- Anthropology, Minor (p. 85)

Course Offerings

AN 112 Cultural Anthropology (3)

Students will learn about contemporary global cultures to develop a culturally relative understanding of and appreciation for diverse societies. Students will explore major domains of culture (such as economics, kinship, social stratification, political organization, communication, and religion) and the impact of globalization and colonialism on culture. Finally, students will explore how anthropological work is applied to contemporary social problems. Prerequisites: None
(General Ed Social Science. Global Citizenship Ethics Div.)

AN 113 Linguistic Anthropology (3)

This course is an introduction to the cross-cultural examination of language and communication. Students will learn how language shapes culture, behavior, and thought, the evolution of language over time, the impact of globalization and colonialism, and the intersectionality of race, ethnicity, class, and gender on language. The class will explore how linguistic anthropologists conduct research and apply research to real world settings.

(General Ed Social Science. Global Citizenship Ethics Div.)

AN 114 Introduction to Archaeology (3)

This course will introduce students to the theories and methods of archaeological science to understand how archaeological remains are used to interpret human prehistory. This course covers what archaeology has revealed about the evolution and experience of humankind from the origins of stone-tool use to the emergence of complex societies around the world. No prerequisites.

(General Ed Social Science. Critical and Creative Thinking.)

AN 116 Biological Anthropology (3)

This course introduces students to biocultural evolution across time and space. Students will investigate the biological aspects of human life through the study of the principles of evolution, genetics, adaptation, and human variation. This course will explore the evolutionary history of human ancestors and nonhuman primates using fossil evidence.

Prerequisite: None.

(General Ed Social Science. Quan and Sci Reason Lit.)

AN 118 Introduction to Forensic Science (3)

This course provides an overview of the multi-disciplinary nature of forensic science. Students will learn how forensic scientists in various fields, such as anthropology, biology, chemistry, criminal justice, and digital science, apply the scientific method to collect and evaluate evidence. Prerequisite: None.

(General Ed Social Science. Quan and Sci Reason Lit.)

AN 200 Special Topics in Anthropology (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken more than one semester. Prerequisite: AN 112.

AN 300 Special Topics in Anthropology (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: AN 112.

AN 302 Culture, Gender & Sexuality (3)

This course introduces students to anthropological perspectives on sex, gender, and sexuality. Special attention is given to the social, political, economic, and cultural processes that shape us to act and think as particular kinds of sexed, gendered, and sexualized persons, including the complexities and dilemmas posed by intersecting identities (e.g. race, ethnicity, class, religion). Prerequisite: AN 112, or AN 113, or consent of instructor.

AN 303 Human Origins and Evolution (3)

This course examines the evolutionary fossil record of human and nonhuman primates from a bio-cultural perspective. Students will explore current anthropological methods and theories used to interpret the evolutionary data including the development of bipedalism, human adaptations, and the emergence of Homo sapiens. Prerequisite: AN 116.

AN 311 Primate Social Behavior (3)

This course focuses on the behavioral ecology and evolution of the Order Primate. Students will examine the taxonomic classification of nonhuman primates and investigate how evolution has shaped the diversity of their social structure and behavior. In addition to watching several anthropological films, we may observe nonhuman primate interactions at a local zoo. Prerequisite: AN 116.

AN 312 Medical Anthropology (3)

This course will explore biocultural constructions of health and illness across the globe. Students will critically assess biomedical assumptions and the effects of inequality to gain a better understanding of how different societies view and treat illness, the interaction of biology and culture, and the political and economic roles in relation to patterns of health and healing. Prerequisite: AN 112 or AN 116.

AN 313 Religion, Magic and Witchcraft (3)

This course is a cross-cultural study of the forms and functions of non-Western and Western supernatural beliefs. Students will examine a wide range of religious systems and worldviews including myth, ritual, symbolism, magic, ancestor worship, witchcraft, religious healing, and spirit possession. Major theories about the origins and social functions of such beliefs and practices will be explored. Prerequisite: AN 112.

AN 314 The Im/migrant Experience in America (3)

This course explores the historical and modern implications of im/migration in the United States; how globalization, colonialism, and transnationalism affect im/migrant communities; and how im/migrants acculturate into their host communities. Special attention will be given to the experiences of im/migrants in Kansas today. Prerequisite: AN 112, AN 113, or consent of instructor.

AN 316 Forensic Anthropology and Laboratory (3)

In this laboratory-based course, students will apply forensic anthropological methods and theories to recover and positively identify human remains and to evaluate trauma and taphonomy in medico-legal contexts. Forensic anthropology will also include an overview of the historical and current developments in the field. Prerequisites: AN 114 or AN 116.

AN 317 Peoples and Cultures of Africa (3)

This course explores sub-Saharan African societies through selected case studies covering topics such as kinship, gender, religion, political economy, geography, and contemporary social issues. Analysis includes the pre-colonial, colonial, and post-colonial histories of the various groups. Prerequisite: AN 112.

(General Ed Social Science. Global Citizenship Ethics Div.)

AN 318 North American Archaeology (3)

As a survey of the diverse prehistoric cultures and environments of North America, this course will examine economic, technological, and organizational changes from the earliest hunter-gatherers to pre-Columbian complex societies. Students will gain an understanding of the history and theory of North American archaeology and explore experimental archaeological techniques through ancient tool making. Prerequisite: AN 114 or consent of instructor.

AN 319 Peoples and Cultures of Indigenous North America (3)

This course explores indigenous North American cultures through selected case studies covering topics such as kinship, gender, religion, political economy, geography, and contemporary social issues. Analysis includes the pre-colonial, colonial, and post-colonial experiences of the various groups. Prerequisite: AN 112.

AN 320 Ancient Latin America (3)

This course is an archaeological survey of the Pre-Columbian heritage of Mesoamerica and South America. Cultures such as the Olmec, Maya, Aztec, Moche, Nazca, Chimu, and Inca will be examined through artifacts, art, architectural remains, and ethnohistoric documents. Students will achieve an understanding of the growth and decline of complex societies, and will examine the relationship between the past and contemporary Latin American cultures. Prerequisite: AN 114 or consent of instructor.

AN 321 Anthropology of Women (3)

The roles and statuses of women around the world are examined in the three sub-systems of culture – material, social and ideational – including in-depth studies of women in horticultural, peasant, and modern societies. Prerequisite: AN 112 or consent of instructor.

AN 322 Visual Anthropology (3)

This course explores how images and other types of media are created, circulated, and consumed by members of diverse cultures and by anthropologists. Topics to be covered include how culture is portrayed in media and in museums, the use of media as a tool in ethnographic research; analysis of media from an anthropological perspective; and the creation of the “other” through media. Prerequisite: AN 112.

AN 324 History and Theory of Anthropology (3)

This course examines the history of Anthropology while also exploring current debates, schools of thought, and contemporary theories from a four-field perspective. Prerequisites: Declared major, AN 112, and junior standing.

AN 327 Fragmentary Human Osteology (3)

This laboratory-based course focuses on the growth and development of the human skeletal system and the identification of fragmentary skeletal and dental remains. Students will also explore how trauma, pathology, taphonomy, and cultural factors affect skeletal biology. Prerequisite: AN316.

AN 336 Globalization (3)

An examination of work, life, and culture in an increasingly globalized world. Prerequisite: AN 112 or consent of instructor.

AN 358 Human Skeletal Biology and Laboratory Methods (3)

In this laboratory-based course, students apply the principles, methods, theories, and techniques that anthropologists use to macerate, identify, analyze, and curate human skeletal remains. Students will work with real human skeletal material and forensic cases in a series of hands-on learning activities. Prerequisite AN 327.

AN 362 Methods of Social Research (3)

Specific research techniques employed by sociologists, anthropologists, and other social scientists are considered, including polls and surveys, the interview and participant observation. Each student will complete an outside project. One of two capstone courses required of Anthropology majors. Prerequisites: Declared major and 15 hours of Anthropology; or consent of instructor.

AN 363 Internship (1-3)

Field training to provide students with experience in an operational or research setting through assignment to local social agencies or museums approved and supervised by a faculty member. May be elected twice for a maximum of three hours. Prerequisites: Declared major, senior standing, and consent of instructor.

AN 366 Directed Readings (1-3)

Under supervision of a faculty member, students will undertake an extensive readings course to further their understanding of a specific topic within Anthropology. May be repeated for a maximum of six hours. Students are limited to six hours total from AN 366 and AN 367 combined. Prerequisite: Declared major, junior/senior standing, and consent of instructor.

AN 367 Directed Research (1-3)

Upon supervision of a faculty member, students will undertake an independent research project in a specific aspect of Anthropology. May be repeated for a maximum of six hours. Students are limited to six hours total from AN 366 and AN 367 combined. Prerequisite: Declared major, junior/senior standing, and consent of instructor.

AN 369 Kansas Archaeology (3)

This course is a survey of the archaeological record of Kansas from the earliest Paleoindian inhabitants through the Historic period. Students may have the opportunity to visit archaeological sites and museums in Kansas and participate in archaeological analysis through hands-on work with collections. Prerequisite: AN 114 or consent of instructor.

AN 370 Historical Archaeology (3)

In this course, students will examine the recent past through material remains of societies that also have some form of written evidence. Students will also learn about historic preservation, museum curation methods, and historic interpretation for public archaeology. Prerequisite: AN 114 or consent of instructor.

AN 371 Field and Lab Methods in Archaeology (3)

In this course, students will learn how to properly survey and excavate an archaeological site and how to identify and analyze artifacts, cultural features, and sediments using state-of-the-art techniques. Students will gain hands-on experience working in a mock-excavation setting and with real archaeological collections. This course is a prerequisite for AN 372 Archaeological Field School. Prerequisite: AN 114 or consent of instructor.

AN 372 Archaeological Field School (1-6)

This course provides students with practical, hands-on experience where they apply their archaeological training and knowledge at a field site held off-campus. The field school may include survey, location, and excavation techniques, technical mapping, and proper documentation and collection of field data. Long-distance and overnight travel may be required. Prerequisite: AN 371 or consent of instructor.

AN 374 Forensic Archaeology (3)

In this course, students will learn how to properly survey and excavate outdoor crime scenes containing human remains and forensic evidence using state-of-the-art techniques. Students will gain hands-on experience working in a mock-forensic excavation setting. This course is a prerequisite for AN375 Forensic Anthropology Field School. Prerequisites: AN114 or AN316.

AN 375 Forensic Anthropology Field School (3)

This course provides students with practical, hands-on experience through a series of mock forensic cases including surface scatters, burials, and/or fatal fires. Students will apply knowledge gained in AN374 Forensic Archaeology to simulated forensic cases beginning with the initial search to the recovery and transport of remains to the laboratory. Prerequisites: AN 374.

AN 397 Special Topics: Archaeology (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken more than one semester. Prerequisite: AN 114.

AN 398 Special Topics: Forensic Anthropology (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken more than one semester. Prerequisite: AN 316.

AN 400 Special Topics in Anthropology (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: AN 112 or consent of instructor.

AN 428 Case Studies Forensic Anthropology (3)

Utilizing real forensic case studies, this class will highlight the anthropological techniques and methods used to recover and identify human remains. Students will work on cases from initial recovery to the preparation of the final forensic anthropological case report. Prerequisite: AN 358 and AN374.

AN 490 Applied Anthropology (3)

In this course, students will apply core knowledge from the subfields of anthropology to real-world problems. Special attention is given to reflection and professional preparation for various career paths including nonprofit and community-based organizations, businesses and corporations, and governments. Prerequisite: AN324 and junior/senior status.

Anthropology, BA

Mission

Consistent with the mission of the University and the College of Arts and Sciences, the Department of Sociology and Anthropology offers students the opportunity to deepen and broaden their knowledge of humankind and themselves. We provide a broad understanding of cultural, social, and physical diversity in the world – past, present, and future. Students enrolled in sociology and anthropology classes will learn to critically examine social life, its organization, and its meaning. Through engaged pedagogy, we contribute to the intellectual development of our students who acquire the skills needed to examine cultures and societies through empirical, analytical, comparative, and historical methods. We believe that a firm grounding in sociological and anthropological knowledge will enrich the lives of our students and prepare them to be active citizens of their local communities and our global society.

Student Learning Outcomes

BA in Anthropology majors at Washburn University, upon graduation, should be able to:

- Articulate the importance of human diversity through a holistic, four-field anthropological approach.
- Critically evaluate anthropological theories, ethics, and research methods.
- Apply critical thinking skills to biological evolution and culture change over time.
- Critically evaluate the impact of colonialism and globalization on world cultures.
- Effectively communicate, in a variety of formats, to diverse audiences.

Degree Requirements

Code	Title	Hours
Core		
AN 112	Cultural Anthropology	3
AN 113	Linguistic Anthropology	3

AN 114	Introduction to Archaeology	3
AN 116	Biological Anthropology	3
AN 324	History and Theory of Anthropology	3
AN 362	Methods of Social Research	3
AN 490	Applied Anthropology	3
Subtotal		21
Additional Hours		
One AN elective		3
Three AN upper-division electives		9
Subtotal		12
Total Hours		33

It is recommended that majors in Anthropology develop a correlate area in a sub-discipline of Anthropology (archaeology, biological, cultural, or linguistic anthropology), nine hours to be chosen from the department or from other departments in consultation with a department advisor.

Majors working toward the BA degree are strongly encouraged to take courses in statistics and computer science; and to complete a minor. Students must earn a grade of "C" or better in all courses applied to the major.

Anthropology (Forensic Concentration), BS

Mission

Consistent with the mission of the University and the College of Arts and Sciences, the Bachelor of Science in Anthropology with a Forensic Concentration offers students the opportunity to broaden their knowledge of humankind and themselves across time and space. We believe that an engaged multidisciplinary approach with a firm grounding in anthropology, the natural sciences, and forensics allows students to become active members of the professional field, while also making a meaningful difference in their communities.

Student Learning Outcomes

BS in Anthropology (Forensic Concentration) majors at Washburn University, upon graduation, should be able to:

- Contextualize the history and role of forensic anthropology in the four-field discipline of anthropology and forensic science in general.
- Apply anthropological ethics, methods, and/or theory to the recovery and analysis of human remains.
- Effectively interpret and communicate anthropological data.

Degree Requirements

Code	Title	Hours
Required		
AN 112	Cultural Anthropology	3
AN 113	Linguistic Anthropology	3
AN 114	Introduction to Archaeology	3
AN 116	Biological Anthropology	3
AN 316	Forensic Anthropology and Laboratory	3
AN 324	History and Theory of Anthropology	3
AN 327	Fragmentary Human Osteology	3

AN 358	Human Skeletal Biology and Laboratory Methods	3
AN 374	Forensic Archaeology	3
AN 428	Case Studies Forensic Anthropology	3
Subtotal		30
Additional Hours		
Nine (9) credit hours in upper-division Anthropology		9
Subtotal		9
Total Hours		39

The B.S. degree requires a thirty (30)-hour concentration to be chosen from the Natural Sciences, with at least twenty (20) credit hours taken in one department. The following courses are required:

Code	Title	Hours
Natural Science Concentration Requirements		
BI 102	General Cellular Biology	5
BI 103	General Organismal Biology	5
BI 275	Human Anatomy	4
CH 103	Introduction to Forensic Chemistry	3
CH 151	Fundamentals of Chemistry I	5
MA 140	Statistics	3

Students must earn a grade of "C" or better in all courses applied to the major and the Natural Sciences concentration minor.

Anthropology, Minor

Minor Requirements

To minor in Anthropology, students must complete a minimum of 15 anthropology credit hours.

Code	Title	Hours
Select one of the following:		
AN 112	Cultural Anthropology	3
AN 114	Introduction to Archaeology	
AN 116	Biological Anthropology	
Upper-division Anthropology hours completed at Washburn University		6
Anthropology electives		6
Total Hours		15

Students must earn a grade of C or better in each course in the minor. Sociology majors can minor in Anthropology.

Art

Department of Art

Website: www.washburn.edu/art (<https://www.washburn.edu/art/>)

Faculty

Associate Professor Kelly Thor, PhD, Chair
 Professor Marguerite Perret, MFA
 Professor Azyz Sharafy, MFA
 Associate Professor Michael Hager, MFA
 Associate Professor Yeqliang Wang, MFA
 Associate Professor Danielle Head, MFA

Assistant Professor Wonjae Lee, MFA
 Assistant Professor Kwok-Pong Tso, MFA
 Lecturer Madeline Eschenburg, PhD
 Donald B. and Twila Catron Visiting Professor of Art Benjamin Todd Wills, MFA

Mission

The mission of the Washburn University Department of Art is to provide students with a strong foundation based on mastering basic concepts of art, design, art history and criticism, as well as learning the technical skills necessary to make art in a changing world. Upon graduation, art students will understand the role of visual arts in expressing human emotions and needs in historical and contemporary life, as well as the power of artistic creation in its many forms.

The Art Department serves those intending to prepare for a profession in the Visual Arts (BFA degrees), those students seeking a Liberal Arts education focused in the visual arts (BA degrees), future art educators seeking teacher licensure, and non-majors who seek knowledge of the visual arts. Studio and art history courses are open to anyone with proper prerequisites. Faculty maintain active professional careers as content for teaching and are exemplars of life-long learning in the visual arts.

Department Description

The degree programs in art are designed to prepare students for a variety of career paths. The BA in Art is a liberal arts degree and may be combined with other degree programs within the College. The BA in Art History is structured for those interested in museum/curatorial studies, advanced work in art history, or any field demanding strong skills in research, writing, and critical thinking. The BFA is a professional art degree program for students interested in an art career and/or advancement into graduate programs in art, art education, or museum/curatorial studies. Media specific BFA concentrations allow students to focus their area of study, while also providing broad instruction across all media in both technical and conceptual approaches to art. Each concentration area includes 18 hours of course work in a specific curricular area and Senior Exhibition as the program Capstone. The BFA concentration in Art Education includes studio, art history and professional education courses leading to a Kansas P-12 Art Teacher licensure. See Degree Requirements (p. 91).

Art Department Scholarships

The Art faculty award scholarships for BA and BFA art majors each year. The Barbara L. Buzick Art Scholarship provides tuition, books, art supplies, and on-campus room and board. It is awarded to an incoming freshman art major and may be renewed through graduation. Contact the Art Department for more information.

Student Learning Outcomes

Student Learning Outcomes (SLOs) achieved through Art courses support the University General Education SLO's, including Communication, Information Literacy and Technology, Critical and Creative thinking, and Global Citizenship, Ethics, and Diversity. Art majors at Washburn University, upon completion of their degree programs, are expected to:

- Demonstrate technical proficiency in the skillful use of art media, tools, processes, and technology.
- Demonstrate the ability to employ elements and principles of effective visual design to communicate content.

- Demonstrate cultural understanding and global citizenship through the knowledge of historic and contemporary artistic creation of diverse peoples.
- Use creative thinking as evidenced in the creation of original artworks or new interpretations of art's meaning or role in society.
- Use critical thinking to clarify problems, evaluate ideas and forms, compare multiple solutions to make informed judgments and express conclusions through speaking and writing effectively about art.

The abilities are assessed in course work and at beginning, mid- and exit levels through critiques, papers, exhibitions, tests and class projects.

Credit and Time Requirements in the Art Department

For every credit hour awarded for a course, the student is typically expected to complete one hour of class time, online interaction, or direct faculty instruction and a minimum of two additional hours of student work each week for approximately 15 weeks for one semester or the equivalent amount of work over a different amount of time. In studio courses, the amount of class time is usually 6 hours per week, with an additional expectation of at least 3 hours per week of outside class work for a 3-hour course.

Programs

- Art, BA (p. 90)
- Art History, BA (p. 90)
- Art Education, BFA (p. 90)
- Bachelor of Fine Arts Degree (BFA) (p. 91)
- Art History, Minor (p. 95)
- Studio Art, Minor (p. 95)

Course Offerings

AR 101 Survey of Art History, Prehistoric to Medieval (3)

A survey of major monuments and movements in the history of art from Paleolithic through Medieval times.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

AR 102 Survey of Art History, Renaissance to Contemporary (3)

Major monuments and movements in Western Art from the Proto-Renaissance through the arts of today.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

AR 103 Introduction to Art (3)

The major principles and ideas of art, with emphasis on different purposes art has served in both Western and non-Western cultures. Course is for non-art majors.

(General Ed Creative Performing, General Ed Humanities. Global Citizenship Ethics Div.)

AR 120 2D Design: Digital Elements (3)

An exploration of the fundamentals of visual communication. Students will become familiar with the elements of design and organizational principles. Using traditional and digital media, studio assignments will encourage creative thinking, synthesis and analysis, and problem solving. Prerequisites: none.

(General Ed Creative Performing, General Ed Humanities. Communication.)

AR 121 3-D Design (3)

An expanded investigation of the basic design principles with an emphasis on idea generation and creative translation. Students will learn how to think critically about visual art, problem solve, and consider a broad range of contemporary and historical approaches. Prerequisite: AR 120.

AR 140 Drawing I (3)

Basic principles of drawing and pictorial design. This course is fundamental to all studio courses and should be taken in the freshman year.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

AR 141 Drawing II (3)

A continuation of Drawing I. Prerequisite: AR 140 or equivalent.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

AR 219 Introduction to Printmaking (3)

Drawing and cutting upon the blocks (plywood, linoleum, and masonite), assemblage will be explored for form and texture. Initial prints will be considered temporary evidence of how marks or forms work toward a completed work. Prerequisites: AR 120 and AR 140.

AR 220 Photography I (3)

Lecture and studio. History of the development of the Photographic process, equipment and material. Darkroom procedures with an emphasis on composition and design in the black and white print.

AR 222 Video Game Design (3)

This course introduces the making and creating of 2D/3D video games. Students learn to create a fully interactive video game. This hands-on course focuses on design, aesthetics and interactivity of the video game. Prerequisite: CM 101, AR 131, or equivalent computer competency.

AR 223 Graphic Design I (3)

Introduction to graphic design through formal and theoretical context. Focus is on development of technical skills and design concepts for print production. Prerequisite: AR 120.

AR 226 Video Editing: FinalCut Pro (3)

Fundamentals of digital video, including lighting, sound composition and editing are taught with the aim of creating time-based art forms. Aesthetic issues evident in video design and editing structure will be examined through viewing, discussion and critique. Software: FinalCut Pro. Prerequisite: AR 120 or MM 100.

AR 231 Basic Multimedia (3)

Introduction to the use of social media to share creative artwork, including video and animations. This course covers video capture with simple video cameras or smart phones, movie editing, and posting work to the Internet. It will include basic animation, sound and interactivity. Students must provide their own phone or other video capture device. Prerequisite: None.

AR 240 Painting I (3)

Introduction to oil or acrylic painting techniques. Emphasis is placed on color theory and effects. Subject matter includes still life, landscape, figure and abstraction. Prerequisite: AR 141.

AR 260 Ceramics I (3)

Introduction to ceramics as creative media for utilitarian and expressive purposes. Course content includes forming techniques, the nature of clay and glazes, firing principles and ceramic history. Creative Thinking will be practiced and assessed as part of the ceramic process. Prerequisite: None.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

AR 262 Sculpture I (3)

Introduction to modeling, casting, carving, and construction as basic methods of executing 3-dimensional form. Prerequisite: AR 121.

AR 265 Kiln-formed Glass & Mosaics (3)

Applied design work utilizing glass techniques of cutting, grinding, fusing, and slumping.

AR 291 Art Therapy (3)

Practice of Art Therapy as a treatment and diagnostic tool in the psychiatric setting. Visiting lecturers and field experience will be included. Prerequisite: PY 100.

AR 299 Special Topics in Art (1-3)

Special media or content offerings not covered in other art courses. May be repeated with different topics. Prerequisites as specified for each offering.

AR 300 Art Theory Past and Present (3)

This class will examine approaches to art and art history from mimesis to the competing theoretical approaches used today. Methods employed by critics, historians, sociologists, and others will be studied as constructions that reflect the sociopolitical circumstances of their authors and audience. Prerequisite: AR 101 and AR 102.

AR 301 Ancient Art (3)

The arts of the Ancient Near East, Egypt, Aegean, Greece, and Rome. **(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)**

AR 303 Medieval/Renaissance Art History (3)

Study of the diverse cultural expressions found in art and architecture from the early Medieval to the Renaissance period. Although Western in focus, non-Western influences and exchange will be considered throughout. Prerequisite: AR 101, AR 102, AR 103 or junior standing **(General Ed Creative Performing, General Ed Humanities. Global Citizenship Ethics Div.)**

AR 306 Development of Modern Art (3)

Survey of the broad trends in art and architecture from 17th - 20th century. Course material will be examined through visual and historical analysis, emphasizing the sociopolitical, religious, and cultural shifts for each period. Prerequisite: AR 101, AR 102 or AR 103; or junior standing **(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)**

AR 307 Twentieth Century Art (3)

Examination of the response of the visual art world to historical, cultural and political changes of the twentieth century. Modernist movements, performance, installation, and the effects of globalism will be considered through visual and historical analysis. Prerequisite: AR 101 or AR 102 or AR 103; or junior standing.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

AR 309 Art of Africa (3)

A historical survey of the major arts produced by African cultures. **(General Ed Creative Performing, General Ed Humanities. Global Citizenship Ethics Div.)**

AR 310 Art of Asia (3)

A survey of the major traditions of art in Asia from Neolithic times through the 19th century.

(General Ed Creative Performing, General Ed Humanities. Global Citizenship Ethics Div.)

AR 311 Art of the Americas (3)

An overview of the visual arts traditions of the ancient and contemporary cultures of the indigenous peoples of North, Central and South America.

AR 312 Research in Art History (3)

Library and Archival research and writing on specific research topics in the History of Art. Prerequisite: Major/minor in Art History or consent.

AR 313 Museum Studies (3)

Study of the history, organization and practice of museums as well as art materials, conservation and archival methods. Prerequisite AR 101 or AR 102.

AR 315 History Of Photography (3)

History of photography as related to the visual arts, including technical innovations, major photographers and aesthetic philosophies. Prerequisites: AR 101 or AR 102 or AR 103 or consent.

AR 318 Typography I (3)

Introduction to the basics of typography and design, and to the use of type to solve visual problems. Topics include anatomy, legibility, hierarchy, and verbal/visual relationships. Prerequisite: AR 120

AR 319 Etching (3)

An exploratory course in etching. Emphasis will be placed on black and white techniques, including intaglio, drypoint, and aquatint. Prerequisite: AR 219.

AR 320 Photography II (3)

Course focuses on developing technical proficiency in photography. Students will work primarily with fiber-based paper. Emphasis is placed upon exploration and expansion of traditional photographic values. Prerequisite: AR 220 or consent.

AR 321 Photoshop Imaging (3)

An intermediate course in creative Photoshop software techniques. Students execute assignments such as photo coloring, restoration and retouching, print design, and collage. Prerequisites: AR 120 and AR 131.

AR 322 Graphic Design II (3)

Advanced graphic design course building on concepts learned in Graphic Design I. Emphasis is on systems of design with a focus on branding, packaging, and information design. Prerequisites: AR 120 and AR 131.

AR 323 Silkscreen (3)

An introductory course in silkscreen printing. Sequential thinking for the production of prints plus application of color theories is investigated. Emphasis will be placed on traditional photographic and inventive applicators of silkscreen techniques for the production of personal images. Prerequisite: AR 219.

AR 324 Lithography (3)

An introductory course for lithography. The printing process of stone and plate lithography is explored with emphasis on imagery and the aesthetics of the fine print. Prerequisites: AR 140, AR 141, AR 219.

AR 325 Photoshop Imaging II (3)

An advanced course in photoshop software techniques focusing on aesthetics and critical issues. Students produce assignments with an emphasis on photo composites for illustration, printing, and fine art. Prerequisite: AR 321.

AR 326 2 & 3-D Digital Animation (3)

Through the use of 3-D animation software and Adobe Premier, students will create computer graphics and animations. Also includes digital video and sound. Software: Lightwave 3D, Final-Cut Pro. Prerequisite: AR 223.

AR 332 Advanced Photo Techniques I (3)

Course focuses on developing technical proficiency in use of different format cameras and large size printing. Students explore aspects of photography such as cibachrome, Polaroid transfer and emulsion lifts, or mural printing. Prerequisite: AR 220.

AR 333 Digital Painting and Drawing (3)

This course is designed to provide the student with knowledge and skills necessary to create digital paintings and drawings using a range of visual art media related to digital processes, including AR/VR and 3D virtual painting. Emphasis of the course is focused on the student. Prerequisites: AR 120 or AR 140.

AR 336 Video Editing and FX (3)

This course covers video editing techniques using Final Cut Pro, Motion, Soundtrac Pro and Live Type software. The course introduces various aspects of digital editing related to special effect, motion graphics, visual and special effects using text. The course covers the basics of sound, camera and editing for special effects in film, the use of green screen, composite effects and integration of computer graphics to digital film. Prerequisite: AR 131 or MM 210.

AR 340 Advanced Oil Painting (Topic) (3)

Advanced study of specific oil or acrylic painting techniques, subjects and styles. Includes class paintings, outside work, and research documentation. May be repeated with different content to 6 hours total credit. Prerequisite AR 240.

AR 341 Art of Landscape (3)

Creative activity in the outdoor environment. Students consult with instructor regarding media choice and expressive intent. Prerequisite: AR 140 for students engaged in Painting or Drawing; AR 140 and AR 220 for students emphasizing photography.

AR 342 Watercolor (3)

Exploration of watercolor techniques. Subject matter includes still life, landscape, figure and abstraction. Prerequisite: AR 240

AR 343 Figure Drawing (3)

Drawing from the nude and draped human figure. Prerequisite: AR 141

AR 345 Chinese Painting (3)

Introduction to Chinese Painting techniques, including handling ink and color on raw and sized rice paper. Subject matter includes landscapes, plants, animals and figures. Prerequisite: AR 120 and AR 140.

AR 352 Professional Photographic Lighting (3)

Introduction to studio lighting using 35 mm digital cameras. Students will study the principles of lighting and their practical use in areas such as portraiture, products, food and fashion. Field trips will expose students to professional studios and practices. Prerequisite: AR 220.

AR 353 Alternative Photo Processes (3)

Study of historical non-silver photographic processes used in the early stages of photographic development and currently used by contemporary artists as a creative element. Processes include: cyanotype, Van Dyke, platinum/palladium, salted paper, gum bichromate. Prerequisite: AR 220.

AR 354 Documentary Photography (3)

Course focuses on basic principles and techniques of documentary photography. Topics will vary by semester and will be announced in advance. Prerequisite: AR 220 or consent.

AR 355 Experimental Photography (3)

Experimental and creative methods using digital and historic photographic techniques. Students will experiment and combine new techniques with old, and use the results in mixed-media art. Techniques include: bromoil, pronto plates, albumen on paper, anothotypes, tintypes, mixed-media. Prerequisite: AR 220.

AR 360 Ceramics II (3)

Continued exploration of ceramics with emphasis on wheel-throwing techniques, glaze formulation, and various firing methods. Prerequisite: AR 260.

AR 361 Ceramic Glaze/Surface Exploration (3)

Study of fired ceramic surfaces through experiments with raw materials. Theoretical, historical, and empirical methods are applied to research. Prerequisite: AR 260.

AR 364 Advanced Sculpture (3)

Study of advanced sculptural techniques to achieve artistic expression. May involve environmental or multimedia emphasis. Prerequisite: AR 262. May be repeated with different content. Limit of 9 hours.

AR 365 Kiln-formed Glass & Mosaics (3)

Applied design work utilizing glass techniques of cutting, grinding, fusing, and slumping. 365-level students are expected to complete more advanced projects and class presentations. Prerequisite: AR 121 or AR 265.

AR 380 Elementary Art Education (3)

Study of the artistic development of children, practice with art materials, techniques, and concepts appropriate to the elementary grades including planning and presentation of art lessons. Production, aesthetics, criticism, and history of artworks are emphasized as the basis for children's growth in art learning.

AR 381 Experimental Media (3)

Exploration of papermaking, batik, weaving, and metal working processes. Health and safety, traditions and current trends in crafts are studied. Education majors write unit/lesson plans. Non-ED majors do extra projects. Prerequisites: AR 120, AR 121.

AR 382 Methods and Philosophy in Art Education (3)

Examination of historical and current theories of art education, the development of personal philosophy of art education, and the examination of curriculum goals and objectives. Effective teaching methods for lesson planning, presentation, and evaluation are studied.

AR 390 Independent Study in Art (1-3)

Students work with faculty member to complete independent art projects. Does not involve formal group faculty critiques. Primarily intended for advanced nonmajors. Prerequisites: Advanced course work in discipline, mentor approval, chair approval.

AR 391 Art Therapy (3)

Practice of Art Therapy as a treatment and diagnostic tool in the psychiatric setting. Visiting lecturers and field experience will be included. Prerequisite: PY 100.

AR 398 Art and Culture Abroad (0-3)

Teaches students how to respectfully engage with people and places outside of Kansas, with most trips focused on international experiences. The course may be counted as either studio or art history credit. Students are expected to research the destination's culture in order to communicate their knowledge through art and/or written projects. Prerequisites: None.

AR 399 Special Topics (0-3)

Special media or content offerings not covered in other art courses. May be repeated with different topics. Prerequisites as specified for each offering

AR 400 Senior Exhibition (1)

Preparation and presentation of an exhibit of student's artwork. Prerequisite: BFA-senior status, BA with Department approval.

AR 401 Internship (1-3)

Work experience in art-related businesses, institutions, or non-profits. 3 hrs required for all BFA majors. Licensure students meet requirement through student teaching. Prerequisite: Junior/Senior Art major and instructor permission.

AR 402 Art Forum (1)

Professional preparation for art majors. Topics include portfolio preparation, marketing, gallery representation, graduate schools, grant writing, and other concerns of art professionals. Required for BA art majors. Prerequisite: Junior/Senior art major.

AR 403 Workshop in Art Media (3)

Independent work under faculty mentor in studio area of choice. Must include written plan, research, and report. Students must present work for mid-term and final critiques by all studio faculty. May be repeated for limit of 6 hours. Prerequisite: Jr or Sr BFA Major.

AR 404 Professional Practices (3)

Professional preparation for all art majors, taken the semester prior to AR 400 Senior Exhibition. Includes exhibition preparation, portfolio, careers, and other professional concerns of fine artists. Prerequisite: Senior Art major.

AR 407 Themes-Contemporary Art Practice (3)

This course is equal parts art history, theory and studio. Includes exploration of contemporary artists, practices, new audiences and markets with an emphasis on studio experimentation and production. Prerequisite: AR 102.

AR 418 Advanced Typography (3)

Advanced course building on concepts learned in AR318. Emphasis on multi-page layouts through typographic theory and application. Prerequisites: AR 223 and AR 318.

AR 419 Advanced Relief Printing (3)

In-depth study and experimentation with various relief processes including large scale printing, Prereq: AR 219.

AR 421 Advanced Digital Painting/Drawing (3)

The course is designed to provide the students with advanced knowledge and skills in digital paintings and drawing. Students will explore a variety of visual art media related to the drawing and painting process, which will be created digitally via computer and software. Emphasis of this course is focused on the wide format artwork and advanced creative expression. The students will demonstrate artistic design, creativity, and concepts in the language of paintings and drawings. Prerequisite: AR 327.

AR 426 Interactive Art: Digital (3)

Students will learn to make their artwork interactive digitally and also make it compatible for web interactivity. The process will include using various types of digital software and the web. Prerequisite: AR 223.

AR 429 Web Design (3)

An introduction to web design through front end web development. Focus on interactivity and Information Architecture to support usability and web standards. Students will apply design principles and explore visual organization of digital space. Prerequisites: AR 223 or AR 318.

AR 432 Advanced Photo Techniques II (3)

See course description under AR 332. Students enrolled at the 432 level must complete additional research in a photo technique and document their research through creative work. Prerequisite: AR 332.

AR 441 Art of Landscape II (3)

Creative activity in the outdoor environment. Students consult with instructor regarding media choice and expressive intent. Advanced students are expected to bring a more experienced and personal creative approach to the course, and are evaluated accordingly. Prerequisite: AR 341.

AR 442 Advanced Watercolor Painting (3)

In-depth study of personal expression through the watercolor medium. Prerequisite: AR 342.

AR 443 Figure Drawing II (3)

Advanced course in drawing the nude and draped human figure. Prerequisite AR 343.

AR 445 Advanced Chinese Painting (3)

Continuation of Chinese Painting with emphasis on experimentation in techniques and pursuit of personal artistic language. Prerequisite: AR 345.

AR 453 Alternative Photo Processes II (3)

See course description for AR 353. AR 453 will study one process of choice in-depth. Prerequisite: AR 353.

AR 454 Documentary Photography (3)

Course focuses on basic principles and techniques of documentary photography. Topics will vary by semester and will be announced in advance. Prerequisite: AR 220 or consent.

AR 455 Experimental Photography II (3)

Experimental and creative methods using digital and historic photographic techniques. Students will experiment and combine new techniques with old, and use the results in mixed-media art. Techniques include: bromoil, pronto plates, albumen on paper, anothotypes, tintypes, mixed-media. Advanced students are expected to complete in-depth research and professional level work in chosen techniques. Prerequisite: AR 355.

AR 460 Advanced Ceramics (Topic) (3)

Study of specialized ceramic techniques of firing, surface and forming to achieve differing purposes. May involve multimedia applications. May be repeated with different topic. Limit of 9 hours. Prerequisite AR 360.

Art, BA

Degree Requirements

The Bachelor of Arts in Art is a degree consisting of thirty-six (36) credit hours in Art plus the general education and University Core requirements of the College.

Code	Title	Hours
Foundation Courses		
AR 101	Survey of Art History, Prehistoric to Medieval	3
AR 102	Survey of Art History, Renaissance to Contemporary	3
AR 120	2D Design: Digital Elements	3
AR 121	3-D Design	3
AR 140	Drawing I	3
300 - level art history		3

AR 404	Professional Practices	3
Subtotal		21
Elective Art Studio Courses		
Select 15 hours of elective Art Studio courses ¹		15
Subtotal		15
Total Hours		36

¹ Must include 12 hours upper division studio courses chosen in consultation with an art advisor. **Note:** Senior BA majors must present a portfolio for faculty review. All studio art majors must enter the juried student art exhibition at least once during their academic career.

Art History, BA

The BA in Art History is a degree consisting of thirty-six (36) credit hours in the major plus the general education and University Core requirements of the College. All students majoring in Art History shall take the following required courses:

Code	Title	Hours
AR 101	Survey of Art History, Prehistoric to Medieval	3
AR 102	Survey of Art History, Renaissance to Contemporary	3
Select one of the following:		3
AR 120	2D Design: Digital Elements	
AR 140	Drawing I	
AR 313	Museum Studies	3
AR 300	Art Theory Past and Present	3
AR 312	Research in Art History	3
or AR 401	Internship	
Select one of the following:		3
AR 309	Art of Africa	
AR 310	Art of Asia	
AR 311	Art of the Americas	
AR 301	Ancient Art	3
or AR 303	Medieval/Renaissance Art History	
Select one of the following:		3
AR 306	Development of Modern Art	
AR 307	Twentieth Century Art	
AR 407	Themes-Contemporary Art Practice	
AR 404	Professional Practices	3
Art History Electives		6
Total Hours		36

Note: Required correlate course in Humanities (may count as General Education): RG 105 Introduction to Jewish Scriptures or RG 106 Introduction to Christian Scriptures or RG 102 World Religions.

Art Education, BFA

The Bachelor of Fine Arts Degree in Art Education is a degree concentration consisting of 48 credit hours in Art plus 39 hours in General Education/University Core and 36 hours Professional Education hours. The total hours for the BFA in Art Education degree is 123 hours. Note: BFA candidates must pass faculty portfolio review for admission

to BFA in Art Education and upon graduation, candidates must pass licensure exams to receive teaching licenses from the State of Kansas.

Degree Requirements

Code	Title	Hours
Art Foundation Requirements		
AR 101	Survey of Art History, Prehistoric to Medieval	3
AR 102	Survey of Art History, Renaissance to Contemporary	3
AR 120	2D Design: Digital Elements	3
AR 121	3-D Design	3
AR 140	Drawing I	3
AR 141	Drawing II	3
Subtotal		18
General Studio/Intermediate Courses		
AR 240	Painting I	3
AR 219	Introduction to Printmaking	3
AR 220 or AR 231	Photography I Basic Multimedia	3
AR 223	Graphic Design I	3
AR 260	Ceramics I	3
Subtotal		15
Required Upper Level Art Courses		
AR 3XX (p. 86)	Art History Elective ¹	3
Select one of the following:		3
AR 300	Art Theory Past and Present	
AR 307	Twentieth Century Art	
AR 407	Themes-Contemporary Art Practice	
AR 400	Senior Exhibition	1
Subtotal		7
Open Art Electives		
	Any upper level studio courses or special topics courses (p. 86) ²	9
Subtotal		9
Required Art Education Courses		
AR 380	Elementary Art Education	3
AR 381	Experimental Media	3
AR 382	Methods and Philosophy in Art Education	3
Subtotal		9
Required Professional Education Courses		
ED 155	Teaching, Learning, Leadership	3
ED 285	Educational Psychology	3
ED 165	Ed. 1, Examining Teaching as a Profession: Diversity 1, Literacy 1, Technology 1	3
ED 275	Ed. 2 Exploring Teaching as a Profession (Classroom Management 1, Diversity 2, Technology 2) Ed. 2	3
ED 295	Ed. 3 Experiencing Teaching as a Profession (Classroom Management 2, Diversity 3, Literacy 2)	3
ED 395	Ed. 4 Extending Teaching as a Profession (Classroom Management 3, Literacy 3, Technology 3)	3

ED 345	Practicum Infants & Toddlers Education	3
ED 302	Teaching Exceptional Learners	3
Subtotal		24
Student Teaching		
ED 440	Student Teaching Grades P-12	12
Subtotal		12
Total Hours		94

¹ AR 300 - AR 315

² May include 3 hours travel/study and/or 3 hours Art History courses

Total Art Hours: 48

Total Gen Ed/University Core Hours: 39

Total Professional Education/Student Teaching Hours: 36

Total Hours for Degree: 123

Bachelor of Fine Arts Degree (BFA)

The Bachelor of Fine Arts Degree is particularly suited to the student who intends to follow a career in the visual arts, including but not limited to: graphic design, photography, electronic arts, museum education, art teaching, curatorial studies, painting, drawing, sculpture, ceramics, and printmaking. BFA graduates exhibit sophisticated technical knowledge, creativity, and expression indicative of those entering the professional art world. All BFA students prepare a senior exhibition of their artwork as the capstone experience of their degrees. Additionally, BFA students in Art Education must meet all competencies and requirements to teach art P-12 in the state of Kansas. The degree requirements for this BFA degree are listed separate from the studio concentrations.

Admission to the BFA

In order to maintain high standards and encourage successful completion of the BFA degree, students must meet specific requirements including completion or concurrent enrollment in required art foundation courses, completion or concurrent enrollment in two 200-level required intermediate art courses, a GPA of 3.0 or higher in Art, and the submission of a portfolio.

Each semester art faculty will meet to review qualifications and portfolios for BFA admission. The following materials must be submitted by the advertised deadline:

- A statement of professional intent
- Portfolio of 10 images

Portfolios will be evaluated for evidence of technical proficiency, effective design, originality and expression. Students will be notified of acceptance or non-acceptance prior to the subsequent semester's enrollment period. Candidates may reapply for BFA admission one time. Candidates are encouraged to apply to the BFA program as soon as they are qualified so they may better plan their course selections.

Note: All studio classes meet twice the amount of time as a lecture class. 3 hours of credit = 6 hours per week of classroom instruction and 3 hours minimum of work outside of class.

Degree Requirements

The degree consists of 84 hours in Art, the University Core requirements (12 hours), 27 hours general education (9 hours from each of the divisions), and 45 hours in upper division work. Note: All 45 hours of upper division credits can be obtained in Art. All BFA degrees require 3

hours of internship. The internship requirement for BFA with Teaching Licensure is met through student teaching. All BFA students must enter the Juried Student Exhibition at least twice during their academic careers.

BFA (all concentrations)

Major Requirements

Code	Title	Hours
Foundation Requirements ¹		
AR 101	Survey of Art History, Prehistoric to Medieval	3
AR 102	Survey of Art History, Renaissance to Contemporary	3
AR 120	2D Design: Digital Elements	3
AR 121	3-D Design	3
AR 140	Drawing I	3
AR 141	Drawing II	3
Subtotal		18
General Studio/Intermediate Courses ¹		
AR 219	Introduction to Printmaking	3
AR 220	Photography I	3
AR 223	Graphic Design I	3
AR 240	Painting I	3
AR 260	Ceramics I	3
AR 262	Sculpture I	3
Subtotal		18
Studio Electives		
Select 9 hours of mid/upper level courses (6 hours must be Upper Level):		9
AR XXX (p. 94)	3D Elective	
AR XXX (p. 94)	Painting or Drawing or Printmaking Elective	
AR XXX (p.)	Photography or Graphic Art or Electronic Art Elective	
Subtotal		9
Required Upper Level Courses ¹		
AR 3XX (p. 94)	Art History Elective ²	3
AR 300 or AR 307	Art Theory Past and Present Twentieth Century Art	3
AR 407	Themes-Contemporary Art Practice	3
AR 400	Senior Exhibition	1
AR 401	Internship	3
AR 403	Workshop in Art Media	3
AR 404	Professional Practices	3
Subtotal		19
Open Art Electives		
Any upper level studio courses or special topics courses ³		18
Subtotal		18
Total Hours		82

¹ All concentrations

² AR 300 - AR 315

³ May include 3 hours travel/study and/or 3 hours Art History courses.

Ceramics and Sculpture Concentration, BFA

Major Requirements

Code	Title	Hours
Art Foundation Requirements		
Complete art foundation requirements		18
Subtotal		18
General Studio/Intermediate Courses		
Complete general studio/intermediate courses		18
Subtotal		18
Courses for Concentration		
AR 360	Ceramics II	3
AR 364	Advanced Sculpture ¹	6
AR 361 or AR 460	Ceramic Glaze/Surface Exploration Advanced Ceramics (Topic)	3
AR 3XX (p. 94)	3-D Elective	3
AR 343	Figure Drawing	3
Subtotal		18
Required Upper Level Courses		
AR 3XX (p. 94)	Art History Elective	3
AR 300 or AR 307	Art Theory Past and Present Twentieth Century Art	3
AR 407	Themes-Contemporary Art Practice	3
AR 400	Senior Exhibition	1
AR 401	Internship	3
AR 403	Workshop in Art Media	3
AR 404	Professional Practices	3
Subtotal		19
Open Art Electives		
Select any upper level studio or special topics courses. ²		9
Subtotal		9
Total Hours		82

¹ Two different topics

² May include 3 hours travel/study and/or 3 hours Art History courses

Graphic Design and Electronic Art Concentration, BFA

Major Requirements

Code	Title	Hours
Art Foundation Requirements		
Complete art foundation requirements		18
Subtotal		18
General Studio/Intermediate Courses		
Complete general studio/intermediate courses		18
Subtotal		18
Courses for Concentration		

AR 231	Basic Multimedia	3
AR 318	Typography I	3
AR 321	Photoshop Imaging	3
AR 322	Graphic Design II	3
AR 418	Advanced Typography	3
AR 429	Web Design	3
Subtotal		18

Required Upper Level Courses

AR 3XX (p. 94)	Art History Elective	3
AR 343	Figure Drawing	3
AR 300	Art Theory Past and Present	3
or AR 307	Twentieth Century Art	
AR 400	Senior Exhibition	1
AR 401	Internship	3
AR 403	Workshop in Art Media	3
AR 404	Professional Practices	3
AR 407	Themes-Contemporary Art Practice	3
Subtotal		22

Open Art Electives

Select any upper level studio or special topics courses. ¹	9
Subtotal	9

Total Hours	85
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¹ May include 3 hours travel/study and/or 3 hours Art History courses

Painting and Drawing Concentration, BFA

Major Requirements

Code	Title	Hours
Art Foundation Requirements		
Complete art foundation requirements		18
Subtotal		18
General Studio/Intermediate Courses		
Complete general studio/intermediate courses		18
Subtotal		18
Courses for Concentration		
AR 340	Advanced Oil Painting (Topic)	3
AR 343	Figure Drawing	3
Select one of the following:		3
AR 323	Silkscreen	
AR 324	Lithography	
AR 319	Etching	
AR 419	Advanced Relief Printing	
AR 342	Watercolor	3
or AR 345	Chinese Painting	
AR 343	Figure Drawing	3
Select one of the following:		3
AR 340	Advanced Oil Painting (Topic)	
AR 442	Advanced Watercolor Painting	
AR 341	Art of Landscape	
AR 445	Advanced Chinese Painting	
AR 421	Advanced Digital Painting/Drawing	3
Subtotal		21

Required Upper Level Courses

AR 3XX (p. 94)	Art History Elective	3
AR 407	Themes-Contemporary Art Practice	3
AR 300	Art Theory Past and Present	3
or AR 307	Twentieth Century Art	
AR 400	Senior Exhibition	1
AR 401	Internship	3
AR 403	Workshop in Art Media	3
AR 404	Professional Practices	3
Subtotal		19

Open Art Electives

Select any upper level studio or special topics courses. ¹	6
Subtotal	6

Total Hours	82
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¹ May include 3 hours travel/study and/or 3 hours Art History courses

Photography Concentration, BFA

Major Requirements

Code	Title	Hours
Art Foundation Requirements		
Complete art foundation requirements		18
Subtotal		18
General Studio/Intermediate Courses		
Complete general studio/intermediate courses		18
Subtotal		18
Courses for Concentration		
Select one of the following:		3
AR 231	Basic Multimedia	
Elective in Graphic Design or Electronic Art		
AR 320	Photography II	3
or AR 332	Advanced Photo Techniques I	
AR 321	Photoshop Imaging	3
AR 354	Documentary Photography	3
AR 355	Experimental Photography	3
or AR 352	Professional Photographic Lighting	
AR 353	Alternative Photo Processes	3
Subtotal		18
Required Upper Level Courses		
Select one of the following:		3
AR 3XX (p. 94)	Art History Elective	
AR 315	History Of Photography	
AR 407	Themes-Contemporary Art Practice	3
AR 300	Art Theory Past and Present	3
or AR 307	Twentieth Century Art	
AR 400	Senior Exhibition	1
AR 401	Internship	3
AR 403	Workshop in Art Media	3
AR 404	Professional Practices	3
Subtotal		19
Open Art Electives		

Select any upper level studio or special topics courses. ¹	9
Subtotal	9
Total Hours	82

¹ May include 3 hours travel/study and/or 3 hours Art History courses

Printmaking Concentration, BFA

Major Requirements

Code	Title	Hours
Art Foundation Requirements		
Complete art foundation requirements		18
Subtotal		18
General Studio/Intermediate Courses		
Complete general studio/intermediate courses		18
Subtotal		18
Courses for Concentration		
Select three of the following:		9
AR 323	Silkscreen	
AR 324	Lithography	
AR 319	Etching	
AR 419	Advanced Relief Printing	
Select one of the following:		3
AR 340	Advanced Oil Painting (Topic)	
AR 341	Art of Landscape	
AR 320	Photography II	
AR 352	Professional Photographic Lighting	
AR 353	Alternative Photo Processes	
AR 354	Documentary Photography	
AR 355	Experimental Photography	
Upper level photo course (p. 94)		
Select one of the following:		3
AR 322	Graphic Design II	
AR 321	Photoshop Imaging	
AR 343	Figure Drawing	3
Subtotal		18
Required Upper Level Courses		
AR 3XX (p. 94)	Art History Elective	3
AR 407	Themes-Contemporary Art Practice	3
AR 300	Art Theory Past and Present	3
or AR 307	Twentieth Century Art	
AR 400	Senior Exhibition	1
AR 401	Internship	3
AR 403	Workshop in Art Media	3
AR 404	Professional Practices	3
Subtotal		19
Open Art Electives		
Select any upper level studio or special topics courses. ¹		9
Subtotal		9
Total Hours		82

¹ May include 3 hours travel/study and/or 3 hours Art History courses

Elective Courses

3D Electives

Code	Title	Hours
AR 265	Kiln-formed Glass & Mosaics	3
AR 360	Ceramics II	3
AR 361	Ceramic Glaze/Surface Exploration	3
AR 364	Advanced Sculpture	3
AR 365	Kiln-formed Glass & Mosaics	3
AR 381	Experimental Media	3
AR 460	Advanced Ceramics (Topic)	3

Painting or Drawing or Printmaking Electives

Code	Title	Hours
AR 319	Etching	3
AR 323	Silkscreen	3
AR 324	Lithography	3
AR 340	Advanced Oil Painting (Topic)	3
AR 341	Art of Landscape	3
AR 342	Watercolor	3
AR 345	Chinese Painting	3
AR 419	Advanced Relief Printing	3
AR 443	Figure Drawing II	3
AR 441	Art of Landscape II	3

Photography or Graphic Art or Electronic Art Electives

Code	Title	Hours
AR 222	Video Game Design	3
AR 226	Video Editing: FinalCut Pro	3
AR 231	Basic Multimedia	3
AR 318	Typography I	3
AR 320	Photography II	3
AR 321	Photoshop Imaging	3
AR 322	Graphic Design II	3
AR 325	Photoshop Imaging II	3
AR 326	2 & 3-D Digital Animation	3
AR 352	Professional Photographic Lighting	3
AR 353	Alternative Photo Processes	3
AR 354	Documentary Photography	3
AR 355	Experimental Photography	3

Art History Electives

Code	Title	Hours
AR 300	Art Theory Past and Present	3
AR 301	Ancient Art	3
AR 303	Medieval/Renaissance Art History	3
AR 306	Development of Modern Art	3
AR 307	Twentieth Century Art	3
AR 309	Art of Africa	3
AR 310	Art of Asia	3
AR 311	Art of the Americas	3
AR 312	Research in Art History	3

AR 313	Museum Studies	3
AR 315	History Of Photography	3

Art History, Minor

A minor in Art History is designed to deepen the student's knowledge of material culture, an interdisciplinary study that complements other areas within the University. Students can expect to sharpen their skills in analysis and communication. The minor must be planned with the aid of art history faculty.

An art history minor consists of 18 hours of art history coursework. In order for the minor to both provide an overview of the discipline and offer opportunities for focused study at the upper-division level, the following guidelines must be met:

Code	Title	Hours
AR 101	Survey of Art History, Prehistoric to Medieval	3
AR 102	Survey of Art History, Renaissance to Contemporary	3
Upper Division Art History Electives		12
Total Hours		18

Studio Art, Minor

A minor in Art is designed to integrate art knowledge with other disciplines of the University. It may be constructed from courses in any area of the curriculum. The minor must be planned with the aid of art faculty.

A minor consists of 18 hours and includes study in art studio and art history courses. In order for the minor to both provide an overview of the discipline and offer opportunity for proficiency in some aspect of it, the following guidelines must be met:

Code	Title	Hours
Select one of the following:		3
AR 120 or AR 140	2D Design: Digital Elements Drawing I	3
Select one of the following:		3
AR 101	Survey of Art History, Prehistoric to Medieval	3
AR 102	Survey of Art History, Renaissance to Contemporary	3
AR 103	Introduction to Art	3
Art Electives ¹		12
Total Hours		18

¹ At least 6 hours of upper division studio courses

Astronomy

Department of Physics and Astronomy

Website: www.washburn.edu/physics (<https://www.washburn.edu/physics/>)

No major or minor is offered in Astronomy. The offerings are administered by the Department of Physics and Astronomy.

Course Offerings

AS 101 Introduction to Astronomy/Cosmology (3)

A qualitative study of stellar, galactic, and extragalactic astronomy and cosmology surveying what is known and how it is known.

(General Ed Natural Science. Quan and Sci Reason Lit.)

AS 102 Introduction to Astronomy - Solar System (3)

A qualitative study of the history of astronomy, the origin, evolution, and functioning of the solar system surveying what is known and how it is known.

(General Ed Natural Science. Quan and Sci Reason Lit.)

AS 103 Observational Astronomy (1)

Use of telescope, planetarium, and other laboratory equipment commonly used in astronomy together with selected descriptive experiments in astronomy. Prerequisite: AS 101 or AS 102 or consent of instructor.

AS 104 Life in the Universe (3)

A scientific investigation of the question "Are we alone in the universe?" Course content includes the origin and properties of stars and planets, the requirements for life, and the emergence and sustainability of civilizations. Students will complete a variety of interactive assignments and a term project. Prerequisite: None.

(General Ed Natural Science. Quan and Sci Reason Lit.)

AS 201 Introduction to Astro Photography (1)

Photographic procedures and techniques peculiar to astronomical photography. Prerequisite: Consent of instructor.

AS 251 General Astronomy (3)

A review of the key ideas and discoveries in astronomy at the intermediate level. Prerequisite: AS 101 or AS 102, and MA 116 with a grade of C or better, or consent of instructor.

AS 360 Research in Astronomy (1-2)

Research in any of the fields of astronomy/astrophysics. Prerequisite: Consent of instructor.

AS 370 Special Subjects/Astronomy (1-5)

Material to be chosen according to student interest from any one of a number of astronomical subjects. Offered on demand as teaching schedules permit. Prerequisite: Consent of instructor.

Biology

Department of Biology

Website: www.washburn.edu/biology (<http://www.washburn.edu/biology/>)

Twitter: @WUBiology

Faculty

Professor John Mullican, PhD, Chair
 Professor and Associate Dean of CAS Matthew Arterburn, PhD
 Professor Rodrigo Mercader, PhD
 Associate Professor Susan Bjerke, PhD
 Associate Professor Jason Emry, PhD
 Associate Professor Andrew Herbig, PhD
 Associate Professor Takrima Sadikot, PhD
 Assistant Professor Benjamin Reed, PhD
 Assistant Professor Joshua Smith, PhD
 Assistant Professor Paul Wagner, PhD
 Assistant Professor Tracy Wagner, PhD
 Senior Lecturer Kellis Bayless, PhD
 Senior Lecturer Duane Hinton, PhD
 Lecturer Erica Jackson, MA
 Lecturer Heather Pfannenstiel, MS

Senior Administrative Assistant Wendy Stafford
 Laboratory Supervisor Alexander Dory
 Karlyle Woods Caretaker Danny Walters

Mission

Biology is an integrative discipline that emerges from all areas of the natural sciences and builds upon those foundations. In the spirit of our discipline the Biology Department is committed to providing students with a strong foundation in the life sciences that culminates in specialized experiences designed to prepare students not only for diverse career opportunities available in the biological sciences, but also to be life-long learners. Fundamental to our students' development is the acquisition of a broad knowledge base, the ability to integrate and apply this knowledge, and the ability to communicate observations and analyses. Through close interaction with our faculty in the classroom and in research environments the Biology Department fosters students' innate desire for discovery and helps them develop the skills and modes of thinking that will empower their contributions to an ever-expanding understanding of the natural world.

Faculty members professionally engage in their sub-disciplines through scholarly work and service, enabling them to contribute to the evolution of their disciplines and engaging them as active members of the greater scientific community abreast of the dynamic nature of their fields. This engagement functions to meet changing student needs within the Biology Department, Allied Health, pre-Nursing and other programs and serves as resources of life science knowledge and awareness of biological issues for the community at large. We strive to establish and maintain the highest standards of curricular innovation, academic rigor, technical skill, modern physical facilities, and personalized mentorship, in support of our primary goal: providing a high-quality learning experience for all students that we engage. We are, above all, a student-centered team of teachers.

Description of Program

The courses in biology are designed to meet the needs of at least four groups of students: those interested in biology as a subject necessary to their general education, those in the various allied health programs, those planning to teach biology or general science, and those preparing for graduate work or for professional careers in biology, environmental biology, forensic biology, molecular biology and biotechnology, or other related fields.

Student Learning Outcomes

Student Learning Outcomes for each major are listed in their respective major descriptions.

Information Common to all Majors within the Biology Department

All Majors within the Biology Department must be officially declared before taking upper division BI courses; however, it is recommended that the major be declared as early as possible after matriculation to Washburn University in order to be eligible for Biology scholarships, and to be assigned an appropriate advisor. Non-Biology majors must be officially declared in an appropriate major before taking upper division BI courses. The declaration of major is done online by either the Chair or an appropriate advisor within the department, after an advising session with the student. Each semester all majors must meet with a department

advisor to plan the appropriate course work for the next semester and to receive a registration PIN.

Departmental Honors

Students are eligible to receive departmental honors upon graduation if they fulfill the following minimum requirements:

- A grade point average of 3.5 in the major, including a 3.5 in upper division work in the major.
- Successful completion of BI 395 Research in Biology.
- Service to the Department, or to the community relevant to the Biology major.
- The recommendation of the Department.

Programs

- Biology, BA and BS (p. 99)
- Environmental Biology, BA and BS (p. 100)
- Forensic Biology, BS (p. 101)
- Molecular Biology and Biotechnology, BS (p. 102)
- Biology Major with Secondary Education Specialization, BS (p. 103)
- Biology Secondary Education, BEd (p. 104)
- Biology, Minor (p. 105)

Course Offerings

All course descriptions listed below assume either a 16-week fall or spring semester. Courses that are offered in the summer and/or online will be held at different times than what is listed below, but will be equivalent in terms of class and laboratory time.

BI 100 Introduction to Biology (3)

An introduction to the major principles and theories of Biology: genes, evolution, cell biology, and the structure and function of the major kingdoms of life. Two sections of special academic interest include Health Emphasis and General Education Emphasis both of which qualify as General Education Courses. Not applicable toward credit for biology major requirements. Two or three lectures a week. Prerequisite: None. **(General Ed Natural Science. Critical and Creative Thinking.)**

BI 101 Introductory Biology Laboratory (2)

Introductory laboratory with activities that examine the structure and function of organisms. Supplementary to BI 100. Not applicable toward credit for biology major requirements. One three-hour laboratory period per week. Prerequisite: BI 100 with a grade of C or better, or concurrent enrollment. Concurrently enrolled students may not drop BI 100 and remain enrolled in BI 101.

(General Ed Natural Science. Quan and Sci Reason Lit.)

BI 102 General Cellular Biology (5)

The organization and activities of organisms at the cellular level. Analysis of the chemical, genetic, and microscopic properties shared by all cells. This is the beginning biology course for the student who wishes to major in biology. Four lectures and one three-hour laboratory period a week. Prerequisite: None.

(General Ed Natural Science. Critical and Creative Thinking.)

BI 103 General Organismal Biology (5)

An introduction to the basic principles of organismal biology with an emphasis on plants and animals. Topics covered will include general ecology and evolution, anatomy and physiology, and organismal diversity. Four lectures and one three-hour laboratory period a week. Prerequisite: BI 102 with a grade of C or better.

BI 110 General Zoology (4)

The organ systems, taxonomy, and evolution of animals. Biological principles as found in the animal kingdom. Three lectures and one three-hour laboratory period a week. Prerequisite: BI 102.

BI 140 Introduction to Forensic Biology (3)

An introduction to the collection, processing and testing of biological evidence during forensic investigations. Topics include: the use of biological samples in crime scene investigation, molecular biology techniques used to detect biological samples and evaluating the strength of DNA profiling. Prerequisites: None.

(General Ed Natural Science. Critical and Creative Thinking.)

BI 150 Evolution (3)

Designed for non-science majors who want a basic explanation of evolution, how it works and its impact on scientific thinking and society. The course will include discussion of simple genetics, origins of life, geologic eras and scientific creationism. Prerequisite: None.

(General Ed Natural Science. Quan and Sci Reason Lit.)

BI 155 Sexually Transmitted Disease (1)

An overview of diseases, which rely on sexual interactions for transmission, e.g., AIDS, syphilis, herpes, and others. The history, epidemiology, clinical nature, treatment and prevention of these diseases are discussed. Prerequisite: None.

BI 180 Special Topics/Biology (1-3)

Selected topics of general interest. Not applicable toward credit for biology major requirements. Prerequisite: None.

BI 202 Biology of Behavior (3)

Biological aspects of human & animal behavior, including sociobiology, ethology, behavioral genetics & evolution, heredity vs. environment, male-female differences, & the neurological & hormonal basis of behavior.

Prerequisites: None.

(General Ed Natural Science. Quan and Sci Reason Lit.)

BI 203 Human Impact on the Environment (3)

The structure and function of a natural environment and the impact of humans on that environment. Topics include population and food, various pollution problems, energy problems, and possible solutions. Not applicable toward credit for biology major requirements. Prerequisite: None.

(General Ed Natural Science. Global Citizenship Ethics Div.)

BI 206 Introductory Microbiology (4)

The basic characteristics of microbes and an analysis of their effects on humans. Emphasis on human medical microbiology. Basic microbiological techniques, with an emphasis on those used in medicine. Developed primarily for students majoring in nursing. Not applicable toward credit for biology major requirements. Three lectures and one three-hour laboratory per week. Prerequisites: A grade of "C" or better in BI 100 (Health Emphasis preferred) and BI 101 or BI 102.

BI 230 Introduction to Human Physiology (3)

This human physiology course is designed for those needing a basic background in physiology principles without the additional functional knowledge that is obtained in the laboratory setting. The emphasis of this course will include learning basic relationships and necessary language to be able to understand the terminology that may be used in fields that are in the periphery of physiology. Prerequisite: A grade of "C" or better in BI 100 (Health Emphasis preferred).

BI 234 Introduction to Biotechnology (3)

The purpose of this course is to introduce and explore the scientific basis of a broad range of topics in the emerging areas of biotechnology involving microbes, plants, and animals, and to understand the impact of biotechnology on society. Additional topics include: history, development, current operations, future advances, industry structure, and career opportunities within the biotechnology industry. Pre-requisite: BI 102 with a grade of C or better.

BI 250 Introduction to Human Anatomy (3)

The structure of the human body, with emphasis on skeletal and muscular systems. Three lectures a week. Prerequisite: A grade of "C" or better in BI 100 or BI 102.

BI 255 Human Physiology (4)

The basic functions of human organ systems. Three lectures and one three-hour laboratory period a week. Prerequisites: A grade of "C" or better in BI 100 (Health Emphasis preferred) and BI 101 or BI 102.

BI 260 Biology of Aging (3)

Mechanisms of aging processes with special reference to human gerontology. Unfavorable progressive changes in molecules, cells, systems, and organisms will be examined. Prerequisite: A grade of "C" or better in BI 100 (Health Emphasis preferred).

BI 275 Human Anatomy (4)

Designed primarily for students majoring in biology, nursing or physical therapy. Lectures survey the organ systems with emphasis on skeletal, muscular, nervous, circulatory and reproductive systems. Laboratory exercises include both animal and human cadaver dissection. Two lectures and two two-hour laboratory periods per week. Prerequisites: A grade of "C" or better in BI 100 (Health Emphasis preferred) and BI 101 or BI 102. NOTE: Pregnant women should consult with physician and instructor prior to enrollment due to specimen preservatives used in this course.

BI 280 Special Topics/Biology (1-3)

Selected topics of general interest. Prerequisite: One or more general biology course(s).

BI 300 Field Biology (3)

Identification and study of plants and animals in the field, including their ecology. Prerequisite: BI 103 with a grade of C or better.

BI 301 General Microbiology (4)

Characteristics of microorganisms with major emphasis on bacteria and viruses. Principle roles of microorganisms in our environment. Laboratory introduces basic techniques used in microbiological studies. Three lectures and one three-hour laboratory period a week. Prerequisites: BI 103 with a grade of C or better, and CH 151.

BI 302 Entomology (4)

Designed to cover the general aspects of the anatomy, physiology, taxonomy, and behavior of insects. Field trips will be an integral part of this course. Three lectures and one three-hour laboratory period a week. Prerequisite: BI 103 with a grade of C or better.

BI 303 Invertebrate Zoology (4)

The invertebrate groups with emphasis on basic zoological principles. Field trips are an integral part of this course. Three lectures and one three-hour laboratory period a week. Prerequisite: BI 103 with a grade of C or better.

BI 305 Parasitology (4)

Protozoan, helminth, and arthropod parasites of humans. Three lectures and one three-hour laboratory period a week. Prerequisite: BI 103 with a grade of C or better.

BI 310 Ecology (4)

Examines the interactions between organisms, their environment, and their evolution; major topics include global ecology, physical ecology, community ecology, species interactions, and biodiversity. Three lectures and one three-hour laboratory period a week. Prerequisite: BI 103 with a grade of C or better.

BI 314 Statistics for Biologists (3)

A course designed as an overview of statistical procedures common in biological research emphasizing their biological relevance and interpretation. Lectures will cover data presentation, parameter estimation, hypothesis testing, goodness of fit, analysis of variance, regression, and a brief introduction to modern methods of analysis. Labs will cover the practical implementation of statistical analyses using the statistical package R. Prerequisite: BI 102 and MA 116 with grades of C or better. Recommended: MA 140 with a grade of C or better

BI 315 Vertebrate Zoology (4)

A taxonomic approach to the study of vertebrate animals. Phylogeny, ecology and behavior will be discussed, as will general structure and function relating to phylogeny. The laboratory will include several field trips. Three lectures and one three-hour laboratory period a week. Prerequisite: BI 103 with a grade of C or better.

BI 319 Biology for STEM Educators (3)

An exploration of the core concepts and principles that unite the major disciplines of the Biological Sciences. The impacts that each of these concepts have on society will be discussed. Special emphasis will be placed on developing lesson and models that effectively communicate complex ideas to a range of ages and audiences. Prerequisite: A grade of "C" or better in either BI 100 and BI 101 or BI 102, and Junior standing.

BI 322 Advanced General Botany (4)

A survey of the anatomy, physiology, and diversity of plants. Evolutionary development, ecology, and applied botany will be discussed. The laboratory will include both field-based and laboratory-based experiments. Three lectures and one three-hour laboratory period a week. Prerequisite: A grade of "C" or better in BI 103

BI 324 Systematic Botany (3)

Exploration of the flowering plants of Kansas and their habitats. Major principles of systematics are covered. Two three-hour class periods per week, and nearly all periods are devoted to field trips to local areas of interest. Prerequisite: BI 103 with a grade of C or better.

BI 325 Microbiology of Human Disease (5)

Basic principles involved in pathogenesis of human disease, host resistance, and epidemiology. Characteristics and laboratory diagnosis of major bacterial pathogens. Three lectures and two two-hour laboratory periods a week. Prerequisite: BI 301.

BI 328 Plant Anatomy and Physiology (3)

Examines the anatomy and physiology of the stems, roots, leaves and reproductive organs of plants, from the molecular to the organismal levels. Prerequisite: BI 103 with a grade of C or better.

BI 330 Animal Physiology (4)

A comparative study of the basic physiological processes occurring throughout the animal kingdom. Three lectures and one three-hour laboratory period a week. Prerequisites: BI 103 with a grade of C or better, and CH 152.

BI 333 General Genetics (4)

A course designed to cover basic genetic principles, including Mendelian Genetics, cytogenetics, population genetics and an introduction to molecular genetics. Laboratory experiments will be used to illustrate the genetic principles covered in lecture. Three lectures and one three-hour laboratory period per week. Prerequisites: BI 103 with a grade of C or better, and CH 151.

BI 340 Evolutionary Biology (3)

The basic ideas of evolutionary biology will include classical Darwinian evolution, and modern analyses of evolutionary theory. Specific topics covered are natural selection, sources of variation, origin of life, paleobiology, speciation, sociobiology and human evolution. Course will also include the historical development of evolutionary ideas as well as a discussion of the impact of evolution on societal issues. Three lectures a week. Prerequisite: BI 103 with a grade of C or better, or consent of instructor.

BI 343 Human Genetics (3)

Classical and molecular mechanisms of inheritance in individuals, families, and populations. Topics include genetics of behavior, outcomes of gene and chromosomal mutations, cancer genetics, genetic counseling, personalized genomics, and issues and applications of current gene and reproductive technologies. Prerequisites: BI 333 with a grade of C or better, or consent of instructor.

BI 353 Molecular Genetics (3)

The molecular basis of genetic systems including chromosomal and extrachromosomal elements. Topics include manipulation of DNA, molecular techniques, cloning, methods for the study of gene expression, mutability of DNA, plasmid systems, prokaryotic and eukaryotic genomes, and practical aspects of biotechnology. Three lectures a week. Prerequisite: BI 301 or BI 333.

BI 354 Molecular Biology Laboratory (3)

A laboratory course designed to introduce the student to modern molecular biology techniques, including recombinant DNA technology (gene cloning), DNA sequence analysis, PCR, Southern hybridization, bioinformatics, and more. This course is designed to mimic a real-world research experience. Two periods totaling 5 hours per week to include one hour for lecture/discussion. Prerequisite: BI 301 or BI 333 or BI 353 or consent of instructor.

BI 355 Developmental Biology (5)

Topics in modern developmental biology will be covered in lecture and through readings so as to gain a working knowledge of the analyses of developmental processes such as fertilization, embryonic cleavage, cell determination and cell differentiation in selected species. Emphasis will be on experiments that reveal how these processes are controlled at the molecular and cellular levels. Three lectures and two two-hour laboratory periods a week. Prerequisite: BI 333 with a grade of C or better.

BI 357 Histology (4)

Fundamental tissues and microscopic examination of vertebrate organs. Two lectures and two two-hour laboratory periods a week. Prerequisite: BI 103 with a grade of C or better.

BI 360 Human Cadaver Dissection (3)

This course is intended to give students who aspire to go to medical school, dental school or post graduate human anatomy programs a chance to gain experience dissecting and learning human cadaveric anatomy. This is a five week summer course that covers the dissection of the entire human cadaver. Focus of dissection is primarily on muscle and joint anatomy, but includes thoracic and abdominopelvic organs along with vascular dissection and identification. Student evaluation is based on participation and dissection skills. Prerequisites: BI 103 with a grade of C or better, or BI 275, and instructor consent.

BI 362 Immunology (3)

Molecular and cell biology of specific and nonspecific immune responses in mammals, with special emphasis on human immune systems. Reviews experimental support for current immunological theories. Roles of immunology in human health and disease. Three lectures a week. Prerequisite: BI 301 and BI 333 or BI 353 or CH 350.

BI 363 Immunology Laboratory (2)

Laboratory course designed to introduce students to current clinical & research procedures in immunology. Includes techniques utilized in biological & biochemical research as well as medical applications. Prerequisite: BI 362 with a grade of C or better, or concurrent enrollment.

BI 370 Virology (3)

The structure and properties of animal viruses. Molecular aspects of virus replication and the role of viruses in disease states. Three lectures a week. Prerequisite: BI 301.

BI 380 Special Topics/Biology (1-3)

A consideration of various emerging or advanced specialty areas in biology, offered according to student and staff availability. Prerequisites: BI 103 with a grade of C or better, and consent of instructor (Additional prerequisites might be needed depending upon particular topic).

BI 389 Biology Literature Review (2)

Students will learn to critically read and analyze primary biology literature in at least four of the five core biology disciplines: cell biology, botany, zoology, microbiology and genetics. It is designed for students who have not yet taken Biology Seminar (BI 390). Students will orally present the data from these papers to the class and complete a series of worksheets on the content of the literature. Students will also learn the basics of a thorough, scientific literature search online and the mechanics of writing a scientific abstract. Two lectures a week. Prerequisite: BI 103 with a grade of C or better, and one other biology core course, plus consent of instructor.

BI 390 Biology Seminar (1)

Organization and oral presentations of the results of current research in the biological sciences. Utilization of recent journal literature, abstracting techniques, and oral communication of scientific data will be emphasized. One semester is required of all majors. Up to three credit hours may be applied toward meeting departmental or university graduation requirements. Prerequisites: 15 hours of BI and Jr. standing.

BI 395 Research in Biology (1-3)

This course is the capstone course in the Biology degree, and open only to declared majors at Washburn University. Independent, undergraduate research on some special problem in biology, the field to be chosen by the student in conference with the instructor. Open only to students, from any discipline, with at least fifteen hours of credit derived from core majors' courses in Biology. At least one semester is required of every Biology major. A maximum of six credit hours of research may be taken by any student, and no more than 3 credits in one semester. Prerequisite: Consent of instructor.

BI 420 Forensic Molecular Biology (4)

This course will thoroughly cover the theory behind the molecular biology used in forensic DNA analysis as well as the practical considerations pertaining to the forensic lab environment. Through simulated examples of real-life sample types, students will learn and gain experience with techniques and equipment currently used in the forensic biology field. Three lectures and one three-hour laboratory period per week. Prerequisites: A grade of C or better in BI 333, CH 340, and CH 342 or consent of instructor.

BI 440 Biotechnology Internship (3)

Experience and training in an approved biotechnology or related industry laboratory, or academic research laboratory. Prerequisites: 27 credit hours of biology, 15 credit hours of chemistry, and Instructor approval.

BI 448 Zoo Internship (3)

Field experience and training at an AZA accredited Zoo. Students can specialize in either an education, animal, or horticulture tract. Prerequisite: A grade of C or better in BI 102 and BI 103, Junior Standing, and/or consent of instructor.

Biology, BA and BS

Both the BA and BS degrees in Biology are designed to meet the needs of students expressing an interest in general biology and preparing them to be competitive as applicants to a variety of graduate programs, professional schools or immediately in the job market.

Student Learning Outcomes

Biology majors at Washburn University, upon completion of the program will be able to:

- Describe and explain fundamental biological concepts in cell biology, genetics, organismal biology, structure and function relationships, ecology, and evolution.
- Explain and utilize the scientific method.
- Employ and demonstrate a variety of scientific techniques in the core biology disciplines of zoology, microbiology, genetics, and undergraduate research.
- Analyze and interpret scientific data.
- Evaluate scientific information and use oral and written presentation skills to formulate explanations of data in a professional manner.

Degree Requirements

Biology, BA

The Bachelor of Arts (BA) degree in Biology requires a minimum of 38 hours in Biology: the 20-hour BI core and 18 additional BI hours; 15 of these 18 hours must be upper division BI courses. The degree requires a minimum of 120 credits to graduate.

Code	Title	Hours
Core		
BI 102	General Cellular Biology	5
BI 103	General Organismal Biology	5
BI 301	General Microbiology	4
BI 333	General Genetics	4
BI 390	Biology Seminar (Capstone Course)	1
BI 395	Research in Biology (Capstone Course)	1
Subtotal		20

Non-Biology Courses

MA 140 or MA 151	Statistics Calculus & Analytic Geometry I	3-5
Select one of the following physics sequences:		10
PS 261 & PS 262	College Physics I and College Physics II	
PS 281 & PS 282	General Physics I and General Physics II	
CH 151 & CH 152	Fundamentals of Chemistry I and Fundamentals of Chemistry II	10
CH 340 & CH 342	Organic Chemistry I and Organic Chemistry Lab I	5
Subtotal		28-30
Additional Courses ¹		
Select additional BI courses		18
Subtotal		18
Total Hours		66-68

¹ 15 of these 18 hours must be upper division BI courses

Biology, BS

The Bachelor of Science (BS) degree in Biology requires a minimum of 44 hours in Biology: the 20-hour BI core and 24 additional BI hours; 21 of these 24 hours must be upper division BI courses. The BS degree also requires a 30-hour Concentration to be chosen from the Natural Sciences (Biology, Chemistry, Mathematics & Statistics, Physics & Astronomy, or Computer Information Science). The degree requires a minimum of 120 credits to graduate.

Code	Title	Hours
Core		
BI 102	General Cellular Biology	5
BI 103	General Organismal Biology	5
BI 301	General Microbiology	4
BI 333	General Genetics	4
BI 390	Biology Seminar (Capstone Course)	1
BI 395	Research in Biology (Capstone Course)	1
Subtotal		20
Non-Biology Courses		
MA 140 or MA 151	Statistics Calculus & Analytic Geometry I	3-5
Select one of the following physics sequences:		10
PS 261 & PS 262	College Physics I and College Physics II	
PS 281 & PS 282	General Physics I and General Physics II	
CH 151 & CH 152	Fundamentals of Chemistry I and Fundamentals of Chemistry II	10
CH 340 & CH 342	Organic Chemistry I and Organic Chemistry Lab I	5
Subtotal		28-30
Additional Courses		
Additional BI courses ¹		24
Additional Natural Science Concentration Courses ^{2,3}		5
Subtotal		29
Total Hours		77-79

¹ 21 of these 24 hours must be upper division BI courses

² This Natural Sciences Concentration must be in departments other than the major, and must have at least 20 hours in one department. Typically satisfied by completing the non-Biology required correlate courses plus 5 additional credits of Chemistry coursework.

³ Natural Sciences Concentrations for the BS degree are limited to these courses: CH 151 Fundamentals of Chemistry I or above, PS 261 College Physics I or above, MA 116 College Algebra or above, CM 111 Introduction to Structured Programming or above.

Environmental Biology, BA and BS

Both the BA and BS degrees in Environmental Biology are designed to meet the needs of students expressing an interest in environmental biology and preparing them to be competitive as applicants to graduate programs. This degree is built around a biology core emphasizing the principles of ecology and evolution with an orientation towards natural resources, conservation, and other environmental concerns.

Student Learning Outcomes

Environmental Biology majors at Washburn University, upon completion of the program will be able to:

- Describe or distinguish major biological principles in cell biology, genetics, organismal biology, ecology, and evolution.
- Demonstrate the complex interrelationships amongst ecological and evolutionary forces and how they influence organisms, populations, and community function.
- Explain the scientific process and be able to discriminate between different approaches to science.
- Identify, recognize, and recall the basic biology of at least one major taxonomic group.
- Design experiments and analyze and interpret basic scientific data.
- Explain scientific information in oral and written presentations in a clear and professional manner.

Degree Requirements

Environmental Biology, BA

The Bachelor of Arts (BA) degree in Environmental Biology requires a minimum of 38 hours in Biology: the 23-hour Environmental Biology core and 15 additional credit hours of biology electives with a minimum of 10 hours from the Organismal Biology Elective list, with at least 1 course from the Field Electives Section. The BA degree in Environmental Biology requires a minimum of 120 credit hours to graduate.

Code	Title	Hours
Core		
BI 102	General Cellular Biology	5
BI 103	General Organismal Biology	5
BI 310	Ecology	4
BI 333	General Genetics	4
BI 340	Evolutionary Biology	3
BI 390	Biology Seminar (Capstone Course)	1
BI 395	Research in Biology (Capstone Course)	1
Subtotal		23
Additional Courses		
Biology Electives (p. 101) ¹		15

Subtotal	15	
Non-Biology Course		
Select one of the following physics sequences:	10	
PS 261 & PS 262	College Physics I and College Physics II	
PS 281 & PS 282	General Physics I and General Physics II	
CH 151 & CH 152	Fundamentals of Chemistry I and Fundamentals of Chemistry II	10
CH 340 & CH 342	Organic Chemistry I and Organic Chemistry Lab I	5
Subtotal	25	
Additional Math Course		
MA 140	Statistics	3-5
or MA 151	Calculus & Analytic Geometry I	
Subtotal		
Total Hours	66-68	

¹ with a minimum of 10 hours from the Organismal Biology Elective list, with at least 1 course from Field Electives Section.

Environmental Biology, BS

The Bachelor of Science (BS) degree in Environmental Biology requires a minimum of 44 hours in Biology: the 23-hour Environmental Biology core, 21 additional credit hours of biology electives with a minimum of 14 hours from the Organismal Biology Elective list, with at least 1 course from Field Electives Section, plus a 3 credit hour quantitative course. The BS degree also requires a 30-hour Concentration to be chosen from the Natural Sciences (Biology, Chemistry, Mathematics & Statistics, Physics & Astronomy, or Computer Information Science). The BS degree in Environmental Biology requires a minimum of 120 credit hours to graduate.

Code	Title	Hours
Core		
BI 102	General Cellular Biology	5
BI 103	General Organismal Biology	5
BI 310	Ecology	4
BI 333	General Genetics	4
BI 340	Evolutionary Biology	3
BI 390	Biology Seminar (Capstone Course)	1
BI 395	Research in Biology (Capstone Course)	1
Subtotal		23
Additional Courses		
Biology Electives (p. 101) ¹		21
Subtotal		21
Non-Biology Course		
Select one of the following physics sequences:		10
PS 261 & PS 262	College Physics I and College Physics II	
PS 281 & PS 282	General Physics I and General Physics II	
CH 151 & CH 152	Fundamentals of Chemistry I and Fundamentals of Chemistry II	10
CH 340 & CH 342	Organic Chemistry I and Organic Chemistry Lab I	5

Subtotal	25	
Quantitative Course		
Select one of the following:	3	
BI 314	Statistics for Biologists	
MA 140	Statistics	
MA 145	Mathematics for Decision Making	
Subtotal	3	
Additional Math Course		
MA 151	Calculus & Analytic Geometry I	5
Subtotal	5	
Natural Sciences Concentration		
Complete natural sciences concentration (p. 101) ²	5	
Subtotal	5	
Total Hours	82	

¹ with a minimum of 14 hours from the Organismal Biology Elective list, with at least 1 course from the Field Electives Section.

² Typically satisfied by completing the non-Biology required correlate courses plus 5 additional credits of Chemistry coursework

Natural Sciences Concentration

The BS degree also requires a 30-hour Concentration to be chosen from the Natural Sciences (Biology, Chemistry, Mathematics & Statistics, Physics & Astronomy, or Computer Information Science). This Natural Sciences Concentration must be in departments other than the major, and must have at least 20 hours in one department. Natural Sciences Concentrations for the BS degree are limited to these courses: CH 151 Fundamentals of Chemistry I or above, PS 261 College Physics I or above, MA 116 College Algebra or above, CM 111 Introduction to Structured Programming or above.

Elective Supportive Organismal Courses for the BA/BS degree in Environmental Biology:

Code	Title	Hours
BI 301	General Microbiology	4
BI 303	Invertebrate Zoology	4
BI 305	Parasitology	4
BI 314	Statistics for Biologists	3
BI 322	Advanced General Botany	4
BI 328	Plant Anatomy and Physiology	3
BI 330	Animal Physiology	4
GG 300	Special Topics/Geography (Introduction to GIS)	3
Field Electives Section		
BI 300	Field Biology	3
BI 302	Entomology	4
BI 315	Vertebrate Zoology	4
BI 324	Systematic Botany	3

Forensic Biology, BS

The BS degree in Forensic Biology is designed to provide students with both the theoretical and practical knowledge required to obtain employment in the forensic biology field. The curriculum is rooted in a rigorous core of biology and other natural sciences, while also exposing

students to legal and ethical considerations that are necessary for any career in forensic science.

Degree Requirements

The Bachelor of Science (B.S.) in Forensic Biology requires a minimum of 40 BI hours plus an additional 60 credit hours of non-biology correlate courses. The coursework for the B.S. in Forensic Biology satisfies the 30-hour natural science concentration and is designed to meet the requirements for accreditation as outlined by the Forensic Science Education Programs Accreditation Commission (FEPAC). Depending upon a student's math competency, it will take approximately 125-128 credits to complete the B.S. degree in Forensic Biology.

Code	Title	Hours
Biology Courses		
BI 102	General Cellular Biology	5
BI 103	General Organismal Biology	5
BI 314	Statistics for Biologists	3
BI 333	General Genetics	4
BI 353	Molecular Genetics	3
BI 354	Molecular Biology Laboratory	3
BI 390	Biology Seminar (Capstone Course)	1
BI 395	Research in Biology (Capstone Course)	1
BI 420	Forensic Molecular Biology (Capstone Course)	4
Subtotal		29
Additional Courses		
BI electives (300-level or higher)		11
Subtotal		11
Non-Biology Correlate Courses		
CH 151 & CH 152	Fundamentals of Chemistry I and Fundamentals of Chemistry II (1 year with lab)	10
CH 202	Professional Forensic Science Seminar	2
CH 323	Advanced Forensic Chemistry	4
CH 340 & CH 342	Organic Chemistry I and Organic Chemistry Lab I (with lab)	5
CH 341 & CH 343	Organic Chemistry II and Organic Chemistry Lab II (with lab)	5
CH 350 & CH 351	Biochemistry I and Biochemistry Laboratory I	5
MA 151	Calculus & Analytic Geometry I	5
Select one of the following physics sequences:		10
PS 261 & PS 262	College Physics I and College Physics II (1 year with lab)	
PS 281 & PS 282	General Physics I and General Physics II (1 year with lab)	
PH 102 or PH 214	Ethics: Introduction to Moral Problems or Medical Ethics	3
CJ 115	Introduction to Forensic Investigations	3
CJ 410	Criminal Procedure and Evidence	3
CJ 415	Advanced Forensic Investigations	3
CJ 416	Forensic Applied Science Laboratory	3

Subtotal	61
Total Hours	101

Molecular Biology and Biotechnology, BS

The BS degree in Molecular Biology and Biotechnology is designed to provide students an opportunity to focus their undergraduate studies in the molecular biosciences in an effort to prepare themselves for either entering the workforce directly as baccalaureate-level research scientists or for entering competitive graduate programs to further their studies. The curriculum is designed to be rich in laboratory experiences through coursework, research and an internship. In addition to 83 credit hours of science courses, Molecular Biology and Biotechnology majors will be required to take an ethics course to appreciate the interplay between biology and society.

Student Learning Outcomes for the Molecular Biology and Biotechnology Major

Molecular Biology & Biotechnology majors at Washburn University, upon completion of the program will be able to:

- Acquire a comprehensive understanding of biological principles including cell biology, genetics, organismal biology, structure and function, ecology, and evolution.
- Acquire the ability to understand and utilize the scientific method.
- Master a variety of scientific techniques in the core biology disciplines of organismal biology, microbiology, genetics, molecular biology, and undergraduate research.
- Develop the ability to analyze and interpret scientific data.
- Develop the oral and written presentation skills to successfully communicate scientific information in a professional manner.

Degree Requirements

The Bachelor of Science (BS) degree in Molecular Biology and Biotechnology (MBB) requires a 34-hour BI core, 44 hours of required non-biology courses, and 8 additional BI or CH hours elective hours. The non-biology coursework for the BS in MBB satisfies the 30-hour Natural Sciences Concentration. The BS degree in Molecular Biology and Biotechnology requires a minimum of 120 credit hours to graduate.

Code	Title	Hours
Core		
BI 102	General Cellular Biology	5
BI 103	General Organismal Biology	5
BI 234	Introduction to Biotechnology	3
BI 301	General Microbiology	4
BI 333	General Genetics	4
BI 353	Molecular Genetics	3
BI 354	Molecular Biology Laboratory	3
BI 390	Biology Seminar	1
BI 395	Research in Biology	3
BI 440	Biotechnology Internship	3
Subtotal		34
Non-Biology Courses		

CH 151 & CH 152	Fundamentals of Chemistry I and Fundamentals of Chemistry II (1 year with lab)	10
CH 340 & CH 342	Organic Chemistry I and Organic Chemistry Lab I (with lab)	5
CH 341	Organic Chemistry II	3
CH 350 & CH 351	Biochemistry I and Biochemistry Laboratory I (1 semester with lab)	5
MA 140	Statistics	3
MA 151	Calculus & Analytic Geometry I	5
Select one of the following physics sequences:		10
PS 261 & PS 262	College Physics I and College Physics II (1 year with lab)	
PS 281 & PS 282	General Physics I and General Physics II (1 year with lab)	
PH 214	Medical Ethics	3
Subtotal		44
Additional Electives		
Elective supportive courses (p. 103)		8
Subtotal		8
Total Hours		86

Elective Supportive Courses

Code	Title	Hours
BI 322	Advanced General Botany	4
BI 325	Microbiology of Human Disease	5
BI 328	Plant Anatomy and Physiology	3
BI 330	Animal Physiology	4
BI 343	Human Genetics	3
BI 355	Developmental Biology	5
BI 357	Histology	4
BI 362	Immunology	3
BI 363	Immunology Laboratory	2
BI 370	Virology	3
BI 420	Forensic Molecular Biology	4
CH 343	Organic Chemistry Lab II	2
CH 352	Biochemistry II	3
CH 353	Biochemistry Laboratory II	2

Biology Major with Secondary Education Specialization, BS

The BS degree in Biology with Secondary Education Specialization is designed for those students seeking teaching certification in Biology and who wish to have a more extensive natural science foundation.

Student Learning Outcomes

Biology, Secondary Education Specialization majors at Washburn University, upon completion of the program will be able to:

- Describe or distinguish major biological principles in cell biology, genetics, organismal biology, ecology, and evolution.

- Demonstrate the complex interrelationships amongst ecological and evolutionary forces and how they influence organisms, populations, and community function.
- Explain the scientific process and be able to discriminate between different approaches to science.
- Identify, recognize, and recall human anatomy, physiology, reproduction, and development.
- Design experiments and analyze and interpret basic scientific data.
- Explain scientific information in oral and written presentations in a clear and professional manner.

Degree Requirements

Biology Majors with Secondary Education Specialization

The Bachelor of Science (BS) degree in Biology with Secondary Education Specialization requires a minimum of 38 hours: the 20-hour core and at least 18 hours of required supporting courses.

Code	Title	Hours
Core		
BI 102	General Cellular Biology	5
BI 103	General Organismal Biology	5
BI 301	General Microbiology	4
BI 333	General Genetics	4
BI 390	Biology Seminar (Capstone Course)	1
BI 395	Research in Biology (Capstone Course)	1
Subtotal		20
Additional Hours		
Students must complete the following courses to satisfy Kansas Teaching Standards.		
Select 18 credit hours of supporting courses:		18
BI 155 or BI 325	Sexually Transmitted Disease Microbiology of Human Disease	1-5
BI 202	Biology of Behavior	3
BI 250 or BI 275	Introduction to Human Anatomy Human Anatomy	3-4
BI 255 or BI 330	Human Physiology Animal Physiology	4
BI 310 or BI 300	Ecology Field Biology	3-4
BI 340	Evolutionary Biology	3
Subtotal		35-41
Non-Biology Courses ¹		
MA 140 or MA 151	Statistics Calculus & Analytic Geometry I	3-5
Select one of the following physics sequences:		10
PS 261 & PS 262	College Physics I and College Physics II	
PS 281 & PS 282	General Physics I and General Physics II	
CH 151 & CH 152	Fundamentals of Chemistry I and Fundamentals of Chemistry II	10
CH 340 & CH 342	Organic Chemistry I and Organic Chemistry Lab I	5

Subtotal	28-30
Total Hours	83-91

¹ These courses may be used to partially satisfy the 30-hour Natural Sciences Concentration

Natural Sciences Concentration

The BS degree also requires a 30-hour Concentration to be chosen from the Natural Sciences (Biology, Chemistry, Mathematics & Statistics, Physics & Astronomy, or Computer Information Science). This Natural Sciences Concentration must be in departments other than the major, and must have at least 20 hours in one department. Natural Sciences Concentrations for the BS degree are limited to these courses: CH 151 Fundamentals of Chemistry I or above, PS 261 College Physics I or above, MA 116 College Algebra or above, CM 111 Introduction to Structured Programming or above.

To receive departmental approval as having competency for licensure in teaching biology at the secondary level, majors must complete a BS in Biology Secondary Education Specialization as outlined above. Completion of the 20-hour core, other major requirements, and appropriate course work within the Department of Education in science teaching methods will satisfy the State competency requirements for licensure in biology. See the Department of Biology and the Department of Education for details. The number of credit hours to graduate varies but is at least 140 credit hours.

Students seeking licensure to teach biology must be formally admitted to the University's Professional Teacher Education Programs. For admission requirements, see **Education** in this catalog.

Biology Secondary Education, BEd

Pending Washburn University Board of Regents approval

The Bachelor of Education (BEd) in Biology Secondary Education is designed for those students seeking teaching certification in Biology.

Student Learning Outcomes

Biology Secondary Education Majors with a Bachelor of Education degree, upon completion of the program, will be able to:

- Understand and explain the similarities and differences between how a variety of organisms live and grow.
- Understand and explain how organisms interact with their environment.
- Understand and explain how genetic information is transmitted from one generation to the next and how genetic variation is lost or maintained.
- Understand and explain evolutionary principles and processes and how they provide evidence that shows the relatedness of different species.
- Incorporate core biological ideas, scientific and engineering practices, and crosscutting concepts into instruction.
- Demonstrate an ability to create and manage environments that support learning.

The Bachelor of Education (BEd) in Biology Secondary Education requires a minimum of 120 credit hours as outlined below.

Code	Title	Hours
University Requirements		
EN 101	First Year Writing	3
EN 300	Advanced College Writing	3
MA 116	College Algebra	3
WU 101	The Washburn Experience	3
Subtotal		12
General Education Requirements		
Social Sciences, GESS		9
Humanities, GEHU ¹		9
Natural Sciences, GENS (9) - Satisfied by Non-Biology required correlated natural science coursework		0
Subtotal		18
Biology Course Requirements		
BI 102	General Cellular Biology	5
BI 103	General Organismal Biology	5
BI 255	Human Physiology	4
BI 275	Human Anatomy	4
BI 301	General Microbiology	4
BI 310	Ecology	4
BI 319	Biology for STEM Educators	3
BI 333	General Genetics	4
BI 340	Evolutionary Biology	3
Subtotal		36
Correlated Science Course Requirements ²		
CH 121	General, Organic, and Biological Chemistry	5
MA 140	Statistics	3
PS 131	Biological Physics for the Health and Life Sciences	3
PS 132	Biological Physics for the Health and Life Sciences Laboratory	1
Subtotal		12
Required Behavior Course		
Select one of the following:		3
AN 311	Primate Social Behavior	
BI 202	Biology of Behavior	
PY 307	Physiological Psychology	
Subtotal		3
Education Course Requirements		
ED 155	Teaching, Learning, Leadership	3
ED 165	Ed. 1, Examining Teaching as a Profession: Diversity 1, Literacy 1, Technology 1	3
ED 275	Ed. 2 Exploring Teaching as a Profession (Classroom Management 1, Diversity 2, Technology 2) Ed. 2	3
ED 285	Educational Psychology	3
ED 295	Ed. 3 Experiencing Teaching as a Profession (Classroom Management 2, Diversity 3, Literacy 2)	3
ED 302	Teaching Exceptional Learners	3
ED 345	Practicum Infants & Toddlers Education	3
ED 352	Methods of Teaching Science in Secondary School	3

ED 395	Ed. 4 Extending Teaching as a Profession (Classroom Management 3, Literacy 3, Technology 3)	3
ED 410	Secondary Student Teaching	12
Subtotal		39
Total Hours		120

¹ 3 of which must be AR, MU, or TH

² satisfies GENS requirements

Biology, Minor

Minor Requirements

(optional minor for the Bachelor of Arts degree)

To minor in Biology the student must apply to the Department and be assigned a Biology advisor. The twenty-hour minimum must be met with course work appropriate for Biology majors. No fewer than 10 hours of this minor must have been completed at Washburn University. Students must have a grade of C or better in each course taken to fulfill the minor.

Code	Title	Hours
Required		
BI 102	General Cellular Biology	5
BI 103	General Organismal Biology	5
Subtotal		10
Elective BI courses		
At least two 300-level or higher elective BI courses		8
Subtotal		
Total Hours		18

Chemistry

Department of Chemistry

Website: www.washburn.edu/chemistry (<http://www.washburn.edu/chemistry/>)

Faculty

Professor Shaun Schmidt, Chair, PhD

Professor Sam Leung, PhD

Associate Professor Seid Adem, PhD

Assistant Professor Allan Avella, PhD

Assistant Professor Hoang Long Nguyen, PhD

Assistant Professor Holly O'Neill, MS

Vision

Washburn Chemistry Department strives to create a supportive, diverse, and inclusive environment to promote life-long learning, to develop analytical and critical thinking skills, and to grow the body of knowledge for our students, faculty, and community.

Mission

Consistent with the mission of the University and the College of Arts and Sciences, the Department of Chemistry is committed:

- to provide a broad spectrum of undergraduate students with a supportive environment in which to develop the necessary

understanding of chemical principles, and analytical and critical thinking skills,

- to engage in scientific research,
- to serve the scientific and local communities.

Student Learning Outcomes

Chemistry majors at Washburn University, upon graduation, will:

- Demonstrate a mastery of a broad set of chemical knowledge concerning the fundamentals in the basic areas (analytical, biological, inorganic, organic, and physical chemistry) of the discipline as appropriate for the individual major.
- Demonstrate an operating knowledge of a variety of modern scientific instrumentation and computational methods to analyze chemicals and chemical processes.
- Demonstrate safe chemical practices, including waste handling and safety equipment.

In addition at the Bachelor's Level chemistry majors, upon graduation, will:

- Demonstrate an ability to define scientific problems, develop testable hypotheses, design and execute experiments, analyze data using appropriate statistical methods, and draw appropriate conclusions both individually and in collaboration with others.
- Demonstrate the use of modern library search tools to locate and retrieve scientific information and the ability to communicate scientific knowledge both verbally and in writing to peers and the scientific community.
- Discuss the application of the standards of professional ethics and how these affect the scientific endeavor.

Additional Requirements

Additional Requirements for all Chemistry Bachelor Degrees — Research (CH 390 Undergraduate Chemical Research) must be initiated at least one semester prior to the semester of graduation. A written report of research or internship is required of all majors. An oral presentation of CH 390 Undergraduate Chemical Research results is required of all BS majors. All majors shall present a portfolio of results obtained with departmental instrumentation prior to the semester of graduation.

Required Natural Science Concentration for the BS degree is limited to these disciplines and courses —

- Biology: BI 102 General Cellular Biology and courses with BI 102 General Cellular Biology or higher as prerequisite;
- Computer Information Sciences: CM 111 Introduction to Structured Programming and courses with CM 111 Introduction to Structured Programming or higher as prerequisite;
- Physics: PS 281 General Physics I and above for the ACS certified major, PS 261 College Physics I or PS 281 General Physics I and above for the non-certified major;
- Mathematics: MA 116 College Algebra and courses with MA 116 College Algebra or higher as prerequisite.

Departmental Honors

Students are eligible to receive departmental honor upon graduation if they fulfill the minimum requirements:

- A grade point average of 3.5 in the major, including a 3.5 in upper division work in the major.
- Successful completion of research with presentation or internship in Chemistry.
- Service to the Department, or to the community relevant to the Chemistry major.
- The recommendation of the Department.

Programs

- Chemistry, BA (p. 108)
- Chemistry, BS - Certified by the American Chemical Society (p. 108)
- Chemistry, BS - Not Certified by the American Chemical Society (p. 109)
- Biochemistry, BA (p. 109)
- Biochemistry, BS (p. 109)
- Forensic Chemistry, BS (p. 110)
- Chemistry Major for Secondary Education Teachers, BA or BS (p. 110)
- Chemistry, Minor (p. 110)
- Forensic Chemistry, Minor (p. 111)
- Laboratory Science, AA (p. 111)

Course Offerings

CH 100 Science Success Strategies (2)

Interdisciplinary class may be taken as MA 105. Develops math and science skills fundamental to science majors. Prerequisite: MA 104, or MA 110, or MA 112, or MA 116 with a grade of D or better.

CH 101 Chemistry in Context (3)

This course introduces and applies major laws, concepts, and theories of chemistry in relation to environmental and energy issues confronting contemporary society. Prerequisite: None.

(General Ed Natural Science. Quan and Sci Reason Lit.)

CH 103 Introduction to Forensic Chemistry (3)

This course emphasizes the history, philosophy and major theories of chemistry as they apply to current forensic analytical techniques. Prerequisite: None.

(General Ed Natural Science. Critical and Creative Thinking.)

CH 121 General, Organic, and Biological Chemistry (5)

Designed for those students who need only a one-semester survey of the principles of chemistry or for nursing students. Includes vocabulary, laws, and applications of the basic concepts of chemistry. Laboratory work includes preparations, illustrations of laws and typical quantitative experiments. Chemistry 121 will not count towards a major or minor in chemistry. High school or on-line courses will not be considered equivalent to this course. Three one-hour lectures, one hour of recitation, and one three-hour laboratory period a week. Prerequisite: Equivalent or higher of MA 116 or MA 112 with a grade of C or better.

(General Ed Natural Science. Quan and Sci Reason Lit.)

CH 126 RN-BSN General, Organic, Bio Chemistry (3)

Designed to fulfill the degree requirement in chemistry for the Registered Nurse to Bachelor of Science in Nursing program, this course introduces measurements, atomic theory, compounds, solutions, and reactions. Prerequisite: The student must be a registered nurse and enrolled in or received a C or better in MA 116, its equivalent or higher.

CH 151 Fundamentals of Chemistry I (5)

Designed for those students who need one year of general chemistry. This course discusses vocabulary and basic laws that are necessary as a foundation for future studies in chemistry. Topics covered will include such subjects as atomic structure, states of matter, chemical bonding and solutions. The emphasis in the laboratory is on quantitative work. Credit for CH 151 precludes subsequent earning of credit in CH 121. High school or on-line courses will not be considered equivalent to this course. Three class periods, one hour of recitation, and one three-hour laboratory period per week. Prerequisite: MA 116 or concurrent enrollment.

(General Ed Natural Science. Quan and Sci Reason Lit.)

CH 152 Fundamentals of Chemistry II (5)

A continuation of Chemistry 151. Includes a study of equilibrium, electrochemistry, thermodynamics, thermochemistry, and kinetics. Laboratory work deals with experimental studies on the theories of chemistry, qualitative analysis and independent laboratory projects. High school or on-line courses will not be considered equivalent to this course. Three one-hour lectures, one hour of recitation, and one three-hour laboratory period a week. Prerequisite: CH 151 with a grade of C or better.

(General Ed Natural Science. Quan and Sci Reason Lit.)

CH 202 Professional Forensic Science Seminar (2)

Students will be introduced areas of forensic science not covered in traditional science coursework through seminars as presented by professionals in the field. These areas will include topics that pertain to every field in forensics such as courtroom testimony, ethics and professionalism and government reporting on forensics. Additional topics may include arson investigation, digital evidence, gunshot residue analysis, firearms and toolmarks analysis and fraud investigation. Prerequisite: None

CH 212 Chemistry of Food and Cooking (3)

This course will introduce students to advanced chemistry topics through examples of food and cooking. One two-hour lecture and one three-hour laboratory period per week. Prerequisite: CH 101 or higher.

(General Ed Natural Science. Quan and Sci Reason Lit.)

CH 300 Special Topics/Chemistry (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: Consent of instructor.

CH 317 Chemistry for STEM Educators I (3)

Designed to introduce concepts and applications of chemistry to STEM educators. This includes chemical safety, vocabulary, atomic structure, states of matter, gases, chemical interactions, bonding, solutions, kinetics, thermodynamics, and thermochemistry. Composed of three hours of lectures/demonstrations/laboratory exercises each week. This course does not satisfy any chemistry prerequisite/requirement outside of the STEM program. Prerequisites: MA 112 or MA 116 and PS 108 with a letter grade of a "C" or higher; concurrent enrollment in ED 317 Chemistry for STEM Educators II

CH 320 Analytical Chemistry (3)

The theoretical and practical fundamentals of classical and physiochemical methods of analysis, with special emphasis on the relationship between physical and analytical chemistry. Prerequisites: a score of at least the 40th percentile on the American Chemical Society full-year General Chemistry Exam, and CH 152 with a grade of C or better.

CH 321 Analytical Chemistry Lab (1)

Principles and techniques of analytical and physical measurements with computer assisted analysis. One three hour laboratory per week. Prerequisites: CH 152 with a grade of C or better and concurrent enrollment in CH 320 or consent of instructor.

CH 323 Advanced Forensic Chemistry (0-4)

Advanced Forensic Chemistry will familiarize students with the most common laboratory equipment and techniques found in a forensic chemistry lab, allowing them to apply the principles learned in the lecture portion to analyze mock evidence, correctly interpret data and effectively communicate results. At the end of the course, there will be a mock case that students will work from start to finish, ending with a testimony in a mock courtroom. Prerequisites – CH 340 Organic Chemistry I with a C or better

CH 340 Organic Chemistry I (3)

The principles of organic chemistry and their application to the preparation, properties, and reaction of aliphatic, aromatic, and a few heterocyclic compounds. Prerequisites: a score of at least the 40th percentile of the American Chemical Society full-year General Chemistry Exam, and CH 152 with a grade of C or better.

CH 341 Organic Chemistry II (3)

A continuation of Chemistry 340. Three class periods per week. Prerequisite: CH 340 with a grade of C or better.

CH 342 Organic Chemistry Lab I (2)

Principles and techniques of organic chemistry, including preparation, separation, identification, and use of microscale equipment. One hour of lecture and one three-hour laboratory period per week. Prerequisites: CH 152 and CH 340 with a grade of C or better or concurrent enrollment.

CH 343 Organic Chemistry Lab II (2)

A continuation of CH 342 with emphasis on spectroscopy and other instrumental techniques. One hour of lecture and one three-hour laboratory period per week. Prerequisites: CH 341 or concurrent enrollment, and a grade of C or better in CH 342.

CH 345 Inorganic Chemistry Lab (2)

Emphasis on inorganic preparations and analytical and physical measurements on inorganic and organometallic compounds with computer assisted analysis of data. One hour lecture and one three-hour laboratory period per week. Prerequisites: CH 152 and CH 342 with a grade of C or better.

CH 346 Instrumental Analysis (2)

Advanced techniques, instrumentation, computational analysis, and computer analysis are used to investigate biological, inorganic, and organic compounds. One hour lecture and one three-hour laboratory period per week. Prerequisites: CH 321 and CH 343 with a grade of C or better.

CH 347 Physical Chemistry Concepts Lab (1)

Techniques and interpretation of physical systems measurements. One three-hour laboratory per week. Prerequisite: CH 343 with a grade of C or better.

CH 350 Biochemistry I (3)

Basic principles of the structure and chemistry of biochemical molecules, such as proteins, nucleic acids, carbohydrates, lipids, enzymes, and vitamins. Prerequisites: a score of at least the 40th percentile on the American Chemical Society full-year General Chemistry Exam, and CH 340 with a grade of C or better.

CH 351 Biochemistry Laboratory I (2)

Biochemistry from the laboratory aspect, with special emphasis on modern techniques and instruments. One four-hour laboratory period a week, one hour lecture and one three-hour laboratory period per week. Prerequisites: CH 342 and CH 350 with a grade of C or better or concurrent enrollment and consent of instructor.

CH 352 Biochemistry II (3)

A continuation of CH 350 emphasizing metabolism, regulatory mechanisms, and DNA replication and expression. Prerequisite: CH 350 with a grade of C or better.

CH 353 Biochemistry Laboratory II (2)

Emphasis on individual projects using the tools of biochemistry from CH 351 and the biochemical literature. One four-hour laboratory period a week. Prerequisites: CH 350 and CH 351 with a grade of C or better.

CH 355 Medicinal Chemistry (2)

A brief history of the development of medicinal chemistry and its social and political implications. Major emphasis will be placed on the methods of discovery and development of drugs. Examples will be drawn from natural products, including plants, animal, and microbiological sources, from organic synthesis, and from modern physicochemical approaches. The mechanism of action, metabolism, and proof of structure of representative drugs will be presented. Prerequisite: CH 341 with a grade of C or better.

CH 360 Descriptive Inorganic Chemistry (3)

Descriptive chemistry of the inorganic elements based on the principles learned in freshman chemistry. Prerequisite: CH 152 with a grade of C or better.

CH 362 Spectroscopy (2)

An introduction to the interpretation of the spectra of organic compounds. Prerequisite: CH 343 with a grade of C or better.

CH 371 Advanced Topics in Chemistry (1)

The specific course content will depend on the instructor. At least two of the following four topics will be introduced: synthetic polymers, biological macromolecules, supramolecular aggregates, meso or nanoscale materials. Introduction to these topics will include preparation, characterization, and physical properties. Thirty hours of chemistry or consent of instructor(s) is required.

CH 380 Fundamentals of Physical Chemistry (3)

A non-calculus based physical chemistry class. Prerequisites: a score of at least the 40th percentile on the American Chemical Society full-year General Chemistry Exam, CH 152, PS 261 or PS 281 with a grade of C or better.

CH 381 Physical Chemistry I (3)

Covers the properties of gases, kinetic principles, thermodynamics, state changes, equilibrium, and properties of solution. Prerequisites: a score of at least the 40th percentile on the American Chemical Society full-year General Chemistry Exam, and CH 152 with a grade of C or better, PS 282 (highly recommended) or PS 262, and MA 151 or concurrent enrollment.

CH 382 Physical Chemistry II (3)

Covers quantum principles with applications to atomic and molecular structure and spectroscopy, statistical thermodynamics, and kinetic theory of gases. Prerequisites: CH 381 with a grade of C or better and MA 152 or concurrent enrollment.

CH 383 Physical Chemistry III (3)

Application of quantum theory in spectroscopy, gas and solution phase molecular reaction dynamics, surface chemistry, and electrochemistry are investigated. Prerequisite: CH 382 with a grade of C or better.

CH 385 Physical Chemistry Lab (1)

Experimental measurements and data analysis emphasize the physics of chemical systems. One three hour laboratory per week. Prerequisite: CH 381 with a grade of C or better or concurrent enrollment.

CH 386 Inorganic Chemistry (3)

Modern theories in inorganic chemistry, including atomic structure, molecular structure and bonding, symmetry and point groups, acid/base definitions, and oxidation/reduction concepts. These topics are applied to main groups, coordination compounds, and organometallic compounds and their respective reactions. Prerequisite: A score of at least the 40th percentile on the American Chemical Society Full-year General Chemistry Exam, and CH 340 with a grade of C or better.

CH 390 Undergraduate Chemical Research (1-5)

Laboratory or theoretical computational research in any of the fields of chemistry, a typed formal report is required. Students may enroll for more than one semester of research. No more than five credit hours may be applied toward meeting departmental or graduation requirements. Prerequisite: departmental permission.

CH 391 Chemistry Seminar (1)

Students must enroll for one credit of seminar and give oral and written presentations on subjects chosen from a list of supplied topics to meet the requirement of the major in chemistry. Prerequisite: departmental permission.

CH 393 Internship (3)

Experience training in a professional forensic laboratory. Prerequisites: Chemistry, 25 credits; Biology, 12 credits; chair approval.

Chemistry, BA

Degree Requirements

At least 30 hours in the department are required, including the following courses and their prerequisites:

Code	Title	Hours
CH 151	Fundamentals of Chemistry I	5
CH 152	Fundamentals of Chemistry II	5
CH 340	Organic Chemistry I	3
CH 341	Organic Chemistry II	3
CH 342	Organic Chemistry Lab I	2
CH 343	Organic Chemistry Lab II	2
Select two of the following:		6
CH 320	Analytical Chemistry	
CH 350	Biochemistry I	
CH 352	Biochemistry II	
CH 360	Descriptive Inorganic Chemistry	
CH 380	Fundamentals of Physical Chemistry	
or CH 381	Physical Chemistry I	
Select two of the following:		2-4
CH 321	Analytical Chemistry Lab	
CH 345	Inorganic Chemistry Lab	
CH 346	Instrumental Analysis	
CH 347	Physical Chemistry Concepts Lab	
CH 351	Biochemistry Laboratory I	
CH 353	Biochemistry Laboratory II	
CH 390 & CH 391	Undergraduate Chemical Research and Chemistry Seminar	2-6

Select one of the following physics sequences: 10

PS 261 & PS 262	College Physics I and College Physics II
PS 281 & PS 282	General Physics I and General Physics II

Total Hours 40-46

Chemistry, BS - Certified by the American Chemical Society

Degree Requirements

At least 45 hours in the department are required, including the following courses and their prerequisites:

Code	Title	Hours
Required Courses		
CH 151	Fundamentals of Chemistry I	5
CH 152	Fundamentals of Chemistry II	5
CH 320	Analytical Chemistry	3
CH 321	Analytical Chemistry Lab	1
CH 340	Organic Chemistry I	3
CH 341	Organic Chemistry II	3
CH 342	Organic Chemistry Lab I	2
CH 343	Organic Chemistry Lab II	2
CH 345	Inorganic Chemistry Lab	2
CH 346	Instrumental Analysis	2
CH 350	Biochemistry I	3
CH 362	Spectroscopy	2
CH 371	Advanced Topics in Chemistry	1
CH 381	Physical Chemistry I	3
CH 382	Physical Chemistry II	3
CH 385	Physical Chemistry Lab	1
CH 386	Inorganic Chemistry	3
CH 390	Undergraduate Chemical Research	2
CH 391	Chemistry Seminar	1
Subtotal		47
Additional Hours		
PS 281 & PS 282	General Physics I and General Physics II	10
MA 151 & MA 152	Calculus & Analytic Geometry I and Calculus & Analytic Geometry II	10
Computer programming language course		3
Subtotal		23
Total Hours		70

Students are encouraged to take additional chemistry courses beyond the 45 hour minimum requirement.

Chemistry, BS - Not Certified by the American Chemical Society

Degree Requirements

Serves as a second major for students with a first major in another science or mathematics; at least 38 hours in the department are required, including the following courses and their prerequisites:

Code	Title	Hours
CH 151	Fundamentals of Chemistry I	5
CH 152	Fundamentals of Chemistry II	5
CH 320	Analytical Chemistry	3
CH 321	Analytical Chemistry Lab	1
CH 340	Organic Chemistry I	3
CH 341	Organic Chemistry II	3
CH 342	Organic Chemistry Lab I	2
CH 343	Organic Chemistry Lab II	2
Select two (or more) of the following:		3
CH 345	Inorganic Chemistry Lab	
CH 346	Instrumental Analysis	
CH 347	Physical Chemistry Concepts Lab	
CH 351	Biochemistry Laboratory I	
Select two of the following:		6
CH 350	Biochemistry I	
CH 352	Biochemistry II	
CH 360	Descriptive Inorganic Chemistry	
CH 382	Physical Chemistry II	
CH 386	Inorganic Chemistry	
CH 380	Fundamentals of Physical Chemistry	3
or CH 381	Physical Chemistry I	
CH 390	Undergraduate Chemical Research	2
CH 391	Chemistry Seminar	1
Select one of the following physics sequences:		10
PS 261	College Physics I	
& PS 262	and College Physics II	
PS 281	General Physics I	
& PS 282	and General Physics II	
Total Hours		49

Biochemistry, BA

Degree Requirements

At least 32 hours in the department are required, including the following courses and their prerequisites:

Code	Title	Hours
Chemistry Courses		
CH 151	Fundamentals of Chemistry I	5
CH 152	Fundamentals of Chemistry II	5
CH 340	Organic Chemistry I	3
CH 341	Organic Chemistry II	3
CH 342	Organic Chemistry Lab I	2
CH 343	Organic Chemistry Lab II	2

CH 350	Biochemistry I	3
CH 351	Biochemistry Laboratory I	2
CH 352	Biochemistry II	3
CH 353	Biochemistry Laboratory II	2
CH 390	Undergraduate Chemical Research	1-5
CH 391	Chemistry Seminar	1
Subtotal		32-36

Cognate Courses

BI 102	General Cellular Biology	5
BI 301	General Microbiology	4
BI 333	General Genetics	4
BI 354	Molecular Biology Laboratory	3
Select one of the following physics sequences:		10
PS 261	College Physics I	
& PS 262	and College Physics II	
PS 281	General Physics I	
& PS 282	and General Physics II	
Subtotal		26

Total Hours **58-62**

Biochemistry, BS

Degree Requirements

At least 40 hours in the department are required, including the following courses and their prerequisites:

Code	Title	Hours
Chemistry Courses		
CH 151	Fundamentals of Chemistry I	5
CH 152	Fundamentals of Chemistry II	5
CH 320	Analytical Chemistry	3
CH 321	Analytical Chemistry Lab	1
CH 340	Organic Chemistry I	3
CH 341	Organic Chemistry II	3
CH 342	Organic Chemistry Lab I	2
CH 343	Organic Chemistry Lab II	2
CH 350	Biochemistry I	3
CH 351	Biochemistry Laboratory I	2
CH 352	Biochemistry II	3
CH 353	Biochemistry Laboratory II	2
CH 381	Physical Chemistry I	3
CH 390	Undergraduate Chemical Research	2
CH 391	Chemistry Seminar	1
Subtotal		40

Cognate Courses

BI 102	General Cellular Biology	5
BI 301	General Microbiology	4
BI 333	General Genetics	4
BI 353	Molecular Genetics	6
& BI 354	and Molecular Biology Laboratory	
MA 151	Calculus & Analytic Geometry I	5
PS 281	General Physics I	10
& PS 282	and General Physics II	

CM 111	Introduction to Structured Programming	4
Subtotal		38
Total Hours		78

Forensic Chemistry, BS

Degree Requirements

At least 39 hours in the department are required, including the following courses and their prerequisites:

Code	Title	Hours
Core		
CH 151	Fundamentals of Chemistry I	5
CH 152	Fundamentals of Chemistry II	5
CH 202	Professional Forensic Science Seminar	2
CH 320	Analytical Chemistry	3
CH 321	Analytical Chemistry Lab	1
CH 323	Advanced Forensic Chemistry	4
CH 340	Organic Chemistry I	3
CH 341	Organic Chemistry II	3
CH 342	Organic Chemistry Lab I	2
CH 343	Organic Chemistry Lab II	2
CH 346	Instrumental Analysis	2
CH 350	Biochemistry I	3
CH 351	Biochemistry Laboratory I	2
CH 355	Medicinal Chemistry	2
CH 391	Chemistry Seminar	1
CH 390	Undergraduate Chemical Research	3
or CH 393	Internship	
Subtotal		43

Select one of the following: 4-5

CH 352 & CH 353	Biochemistry II and Biochemistry Laboratory II	
CH 381 & CH 385	Physical Chemistry I and Physical Chemistry Lab	
CH 386 & CH 345	Inorganic Chemistry and Inorganic Chemistry Lab	

Cognate Course Requirements

BI 102	General Cellular Biology	5
BI 103	General Organismal Biology	5
BI 301	General Microbiology	4
BI 333	General Genetics	4
BI 353	Molecular Genetics	3
BI 420	Forensic Molecular Biology	4
Subtotal		29-30

Other Cognate Course Requirements

MA 140	Statistics	3
MA 151	Calculus & Analytic Geometry I	5
CN 150	Public Speaking	3
CJ 415 & CJ 416	Advanced Forensic Investigations and Forensic Applied Science Laboratory	6
PH 102 or PH 214	Ethics: Introduction to Moral Problems Medical Ethics	3

Select one of the following physics sequences: 10

PS 261 & PS 262	College Physics I and College Physics II	
PS 281 & PS 282	General Physics I and General Physics II	
Subtotal		30

Total Hours 102-103

Chemistry Major for Secondary Education Teachers, BA or BS

Degree Requirements

The teaching of Chemistry at the secondary level requires completion of a BA or BS in Chemistry. Courses that must be taken to meet the standards for licensure in Kansas are:

Code	Title	Hours
CH 151	Fundamentals of Chemistry I	5
CH 152	Fundamentals of Chemistry II	5
CH 320	Analytical Chemistry	3
CH 321	Analytical Chemistry Lab	1
CH 340	Organic Chemistry I	3
CH 342	Organic Chemistry Lab I	2
CH 343	Organic Chemistry Lab II	2
CH 350	Biochemistry I	3
CH 351	Biochemistry Laboratory I	2
CH 390	Undergraduate Chemical Research	1-5
CH 391	Chemistry Seminar	1
Total Hours		28-32

In addition, students must fulfill the professional education course requirements of the Education Department. Students seeking licensure to teach must also be formally admitted to the University's Professional Teacher Education Programs. For admission requirements, see **Education** in this catalog.

Chemistry, Minor

Minor Requirements

The Chemistry minor must include:

Code	Title	Hours
CH 151 & CH 152	Fundamentals of Chemistry I and Fundamentals of Chemistry II	10
CH 340 & CH 341	Organic Chemistry I and Organic Chemistry II	6
	300-level or higher courses	4
Total Hours		20

25% of the total minor hours must be taken in residence at Washburn University. Credit in CH 390 Undergraduate Chemical Research does not apply toward satisfying the 20 hour minimum requirement.

Forensic Chemistry, Minor

Minor Requirements

The Forensic Chemistry minor must include:

Code	Title	Hours
CH 103	Introduction to Forensic Chemistry	3
CH 151	Fundamentals of Chemistry I	5
CH 152	Fundamentals of Chemistry II	5
CH 320	Analytical Chemistry	3
CH 340	Organic Chemistry I	3
Total Hours		19

Laboratory Science, AA

Degree Requirements

AA in Laboratory Science

In addition to the university requirements common to all Associate degrees, at least 19 hours in the department are required, including the following courses and their prerequisites:

Code	Title	Hours
Required Courses		
CH 151	Fundamentals of Chemistry I	5
CH 152	Fundamentals of Chemistry II	5
CH 340	Organic Chemistry I	3
CH 342	Organic Chemistry Lab I	2
Subtotal		15
Select one of the following:		4-5
CH 320 & CH 321	Analytical Chemistry and Analytical Chemistry Lab	
CH 341 & CH 343	Organic Chemistry II and Organic Chemistry Lab II	
CH 350 & CH 351	Biochemistry I and Biochemistry Laboratory I	
Subtotal		4-5
Cognate Course Requirements		
BI 301	General Microbiology	4
Select one laboratory course:		3-5
BI 103	General Organismal Biology	
BI 255	Human Physiology	
BI 275	Human Anatomy	
BI 325	Microbiology of Human Disease	
BI 333	General Genetics	
BI 354	Molecular Biology Laboratory	
Subtotal		7-9
Total Hours		26-29

Pre-Pharmacy

Students who are preparing for admission to a pharmacy school would complete 68 credits including the AA in Laboratory Science typically encompassing the following recommended courses:

Code	Title	Hours
Recommended Courses		
CH 151	Fundamentals of Chemistry I	5
CH 152	Fundamentals of Chemistry II	5
CH 340	Organic Chemistry I	3
CH 341	Organic Chemistry II	3
CH 342	Organic Chemistry Lab I	2
CH 343	Organic Chemistry Lab II	2
BI 102	General Cellular Biology	5
BI 250	Introduction to Human Anatomy	3
BI 255	Human Physiology	4
BI 301	General Microbiology	4
MA 140	Statistics	3
MA 141	Applied Calculus I	3-5
or MA 151	Calculus & Analytic Geometry I	
AN 112	Cultural Anthropology	3
CN 150	Public Speaking	3
SO 100	Introduction to Sociology	3
One of the following:		5
PS 261	College Physics I ¹	
PS 281	General Physics I ²	
One literature course in English		3
Total Hours		59-61

¹ requires a math course containing a trigonometry component such as MA 117 Trigonometry, MA 123 Pre-Calculus, or MA 151 Calculus & Analytic Geometry I

² requires the prerequisite course MA 151 Calculus & Analytic Geometry I

Contact the Pre-Pharmacy Advisor for variations in requirements that are pharmacy school dependent.

Communication

Department of Communication Studies

Website: www.washburn.edu/communication (<http://www.washburn.edu/communication/>)

Faculty

Professor Jim Schnoebelen, PhD, Chair
 Professor Leslie Reynard, PhD
 Professor and Assistant Dean of CAS Tracy Routsong, PhD
 Associate Professor Mary Pilgram, PhD
 Director of Debate/Senior Lecturer Kevin O'Leary, PhD
 Assistant Director of Debate/Lecturer Steve Doubledee, MA
 Lecturer Carson Kay, PhD
 Lecturer Kai Xu, MA

Mission

The Washburn University Communication Studies Department exists to advance the intellectual growth and development of marketable skills by majors, minors, and general education students. This is achieved through student-centered instruction which relies upon Communication theory and research to develop critical thinking skills in written, oral, and nonverbal communication. Communication Studies faculty teach

Communication courses, mentor clubs, and coach activities to foster the development of skills that enhance student success in professional and community settings. Thus, Communication Studies students are able to resolve communication challenges, engage in principled actions as citizens and scholars, and achieve rewarding, productive careers.

Student Learning Outcomes

Communication Studies majors at Washburn University should be able to, upon graduation:

- Describe the purposes of communication in the 21st Century.
- Analyze the needs and expectations of audiences.
- Create messages to achieve specific communication goals.
- Apply communication skills and theory to generate new insights into contemporary communication situations.
- Describe complexities such as race, gender, culture, and interpersonal history, of communication situations.

The Communication Studies major prepares students for professional and personal success. Some fields where communication graduates are building their careers are corporate management, human resources, training and development, advertising, marketing, banking and insurance. The 36-hour major is designed to provide broad general theory and skills for application in many communication arenas. Students who want to pursue graduate or professional school are well prepared to enter the most competitive programs. Students who take communication studies courses develop strong general education skills, as well as in-depth understanding of the theory and practice of human communication. Four courses are specifically identified to meet general education requirements: CN 101 Introduction to Communication Studies, CN 150 Public Speaking, CN 341 Persuasive Speaking, and CN 351 Interpersonal Communication. Alumni find employment as corporate trainers, lobbyists, small business owners, directors of non-profits, consultants, and in a broad range of other careers.

Debate

The nationally ranked debate program offers opportunities in competitive forensics with an emphasis on NFA Lincoln-Douglas debate. Scholarships are available.

Mock Trial

Washburn University fields a highly competitive mock trial team that competes at tournaments throughout the fall, with regionals and nationals typically in the spring. Students hone their legal presentation and critical thinking skills by acting as witnesses and attorneys in trials. Scholarships are available.

Departmental Honors

To receive departmental honors, a graduating student must have a GPA of 3.5 in the Major and an A in Capstone (CN 491 Senior Capstone Internship or CN 498 Senior Capstone).

Lambda Pi Eta

This is the honorary society sponsored by the National Communication Association, the professional organization of communication scholars. To be included in Lambda Pi Eta students must attain a minimum of 60 credit hours with a GPA of 3.0, have taken 12 credit hours of

communication while maintaining a 3.25 GPA in CN classes and be enrolled in good standing with the department.

Programs

- Communication Studies, BA (p. 114)
- Communication Studies, Minor (p. 114)

Course Offerings

CN 101 Introduction to Communication Studies (3)

Examines concepts and skills involved in human communication. Topics include language, nonverbal communication, relationships, perception, and conflict management. Emphasizes the ability to analyze and synthesize information, and to interpret and assess human values. Prerequisite: None.

(General Ed Humanities. Communication.)

CN 150 Public Speaking (3)

Focuses on the process of speech preparation and presentations. Emphasizes the development of critical thinking and listening, clear speaking, and the interpretation of human values through the development of public speaking competencies. Prerequisite: None.

(General Ed Humanities. Communication.)

CN 154 Debate (1-3)

Preparation for intercollegiate debate. May be repeated up to 3 hours. Prerequisite: Consent.

CN 302 Communication Theory (3)

Explores the theoretical foundations that underlie applications in a variety of communication contexts. Provides broad exposure to contemporary communication theory. Prerequisite: CN 101.

CN 304 Qualitative Communication Research Methods (3)

Presents fundamental types and steps of qualitative research in communication. Prerequisites: CN 101 or special permission.

CN 305 Quantitative Communication Research Methods (3)

Presents fundamental types and steps of quantitative research in communication. Prerequisites: CN 101, & MA 112 or higher, or special permission.

CN 306 Health Communication (3)

Explores the concepts and theories of health communication. Examines the demands of health care and health promotion, communication issues and problems in modern health care systems, and identifies communication strategies health care consumers and providers can employ to achieve their health care goals.

CN 307 Communication in Legal Process (3)

Explores the practice of communication in the legal setting, including attorney-client interaction, the trial process, attorney-jury interaction, and legal negotiation.

CN 308 Organizational Communication (3)

Examines organizations from a communication perspective. Emphasizes how organizational variables affect communication patterns. Topics include concepts, skills, theories, and strategies for improving organizational communication.

CN 309 Political Communication (3)

Examines communication concepts in campaigns, presidential addresses, and other political environments.

CN 330 Communication in Conflict and Negotiation (3)

Explores the roles of communication in conflict and negotiation within relationships, groups, and organizations. Examines both theory and practice.

CN 340 Interviewing (3)

Examines the key concepts and needed skills to conduct effective interviews in many settings.

CN 341 Persuasive Speaking (3)

Sharpens persuasive speaking skills initiated in Public Speaking. Focuses on preparation, delivery, and analysis of persuasive speeches in a variety of contexts, including political and corporate settings. Prerequisite:

CN 150.

(General Ed Humanities. Communication.)

CN 342 Communication-Teams and Groups (3)

Provides an in-depth look at group dynamics and communication.

Focuses on communication and decision making, relationships, conflict, leadership, and group development.

CN 343 Debate (1-3)

Preparation for intercollegiate debate. May be repeated up to 4 hours.

Prerequisite: Consent

CN 344 Oral Interpretation (3)**CN 350 Persuasion (3)**

Examines theory and research on the role of communication in influencing attitudes, beliefs, values, and behaviors.

CN 351 Interpersonal Communication (3)

Examines critical factors in interpersonal communication. Analyzes and applies various interpersonal theories and concepts to a variety of relationships.

(General Ed Humanities. Critical and Creative Thinking.)

CN 352 Truth and Deception (3)

This course examines a particularly human activity (or skill?): Lying and deception. Study of these topics draws from recent scholarship in the disciplines of Communication Studies, Psychology, Philosophy, Public Policy, and Marketing. Theoretical concepts will be brought down to earth as we consider them at work in applications to current events and breaking news. Prerequisite: None.

CN 353 Environmental Communication (3)

This course looks at ways human symbols define, construct, and impact "the environment." Focuses include understanding and creating environmental messages, examining constructs of wilderness and civilization, and analyzing strategies designed to meet environmental challenges, to build communication campaigns, and to engage in environmental advocacy. Topics include eco-tourism, "green" schemes, and representations in social and mass media, visual media, and popular culture. Prerequisite: None.

CN 354 Reputation Management (3)

This course examines the role strategic communication with publics plays within corporate and institutional settings, specifically its effectiveness in developing and maintaining external and internal relationships. Methods combine close reading, current event applications, case analyses and focused discussion. Special attention is paid to strategies of crisis planning and management, apologia, and rhetorical reputation management techniques. Prerequisites: None.

CN 359 Methods of Teaching Speech and Drama (3)

The study and application of teaching strategies for secondary education certification in speech. Prerequisites: Advisor approval and formal admission to teacher education.

CN 361 Communication in Social Movements (3)

Assesses theories, models, practice, and criticism of protest communication related to a variety of sociocultural movements.

CN 363 Intercultural Communication (3)

Explores speech communication in and between different cultures and communities.

CN 364 Gender Communication (3)

Focuses on how gender influences communication patterns between and among men and women. Communication influences the creation of gender roles and identity.

CN 365 Business/Professional Presentation (3)

Focuses on principles and practices of public speaking in corporate and professional settings such as reports, proposals, and meetings. Emphasizes clear speaking and information processing in terms of synthesis and analysis.

CN 366 Nonverbal Communication (3)

Explores nonverbal communication by individuals and society.

CN 367 Crisis Communication (3)

Crises are best managed through sound communication practices. This class will help you to develop understanding of the crisis life-cycle, along with effective strategies you can use to foresee, prepare for, and manage crises in professional and personal dimensions of life. Prerequisite: None.

CN 368 The Rhetoric of Hip Hop and Rock n Roll (3)

This course explores the rhetorical dimensions of rock 'n' roll and hip hop by examining four interconnected themes and their relation to communication: fandom, stardom, criticism, and failure. In addition, concepts such as identity, anti-heroism, appropriation, place, production, improvisation, tone, and flow are explored and discussed. With the benefit of open access content as well as short readings, we will focus on some of the key figures in rock 'n' roll and hip hop (e.g., AC/DC, Jimi Hendrix, Beyoncé, Drake, Kendrick Lamar) along with their motivations and messages. Prerequisites: None.

CN 369 Critical Studies (3)

Examines cultural practices and their relation to communication as both the object of study and the location of political criticism and action.

CN 370 Communication Training & Development (3)

Emphasizes the theory and practice of training and development in organizations. Prerequisites: CN 150 and CN 308, or with consent of instructor.

CN 380 Strategic Management Communication (3)

Strategic Management Communication links current theories of business communication to applications and practices that build on these within professional settings. The course provides essential information as to expectations for form and content of a variety of message types that apply to all business situations. Using the case method as a tactic for understanding applications of this material in current business settings, students develop theory-based and strategy-driven skills in production of written and oral document types used in business, corporate, and management communication. Prerequisites: CN 101 required; preferred CN 308 Organizational Communication.

CN 395 Special Topics/Communication (1-3)

Focuses on a topic not regularly offered, but that enhances the curriculum because of specialized faculty or student interest.

CN 490 Directed Research (1-3)

Selected research on communication topics not provided in the curriculum.

CN 491 Senior Capstone Internship (3)

Experience and training in professional settings related to communication careers. Second semester junior or senior status. Majors only. Prerequisites: 27 hrs of communication courses completed including: CN 101, CN 150, CN 302, CN 304 or CN 305, EN 300, and instructor approval. Note: Students can choose either CN 491 or CN 498 to meet their Capstone requirement.

CN 498 Senior Capstone (3)

Students design and execute an appropriate project which provides a culminating experience for the undergraduate academic career and is presented in a departmental forum. Prerequisites: 27 hrs of communication courses completed, including CN 101, CN 150, CN 302, CN 304 or CN 305, EN 300 and Instructor approval. Note: Students can choose either CN 498 or CN 491 to meet their Capstone requirement.

Communication Studies, BA

Degree Requirements

The major consists of 15 required hours and 21 hours of courses chosen in conjunction with the student's assigned adviser.

Code	Title	Hours
Required Courses		
CN 101	Introduction to Communication Studies	3
CN 150	Public Speaking	3
CN 302	Communication Theory	3
CN 304	Qualitative Communication Research Methods	3
or CN 305	Quantitative Communication Research Methods	
CN 498	Senior Capstone	3
or CN 491	Senior Capstone Internship	
Subtotal		15
Elective Courses		
Select 21 hours from the following:		21
CN 154	Debate ¹	
or CN 343	Debate	
CN 306	Health Communication	
CN 307	Communication in Legal Process	
CN 308	Organizational Communication	
CN 309	Political Communication	
CN 330	Communication in Conflict and Negotiation	
CN 340	Interviewing	
CN 341	Persuasive Speaking	
CN 342	Communication-Teams and Groups	
CN 350	Persuasion	
CN 351	Interpersonal Communication	
CN 352	Truth and Deception	
CN 353	Environmental Communication	
CN 354	Reputation Management	
CN 361	Communication in Social Movements	
CN 363	Intercultural Communication	
CN 364	Gender Communication	
CN 365	Business/Professional Presentation	
CN 366	Nonverbal Communication	
CN 367	Crisis Communication	

CN 368	The Rhetoric of Hip Hop and Rock n Roll	3
CN 369	Critical Studies	
CN 370	Communication Training & Development	
CN 395	Special Topics/Communication	
CN 490	Directed Research	
Subtotal		24
Total Hours		39

¹ Limit of 3 hours can count toward the major.

Majors are not limited to 36 hours. Also, students are encouraged to consider a minor, but a minor is not required.

Communication Studies, Minor

Minor Requirements

Majors in other departments often find the Communication Studies minor a valuable addition. Minor requirements include the following:

Code	Title	Hours
CN 101	Introduction to Communication Studies	3
CN 150	Public Speaking	3
Upper division courses, chosen in conjunction with a Communication Studies adviser		9
Total Hours		15

To declare a minor, contact the Communication Studies Department.

Computer Information Science

Department of Computer Information Sciences

Website: www.washburn.edu/cis (<http://www.washburn.edu/cis/>)

Faculty

Professor Bruce Mechtly, PhD, Chair
 Professor Cecil Schmidt, PhD
 Professor Nan Sun, PhD
 Associate Professor Rick Barker, MS
 Lecturer Phillip Hauptman, PhD
 Lecturer Emerita Roberta Jolly, EdD

Mission

Consistent with the mission of the University and College of Arts and Sciences, the Department of Computer Information Sciences is dedicated to providing students, through a diverse learning environment, the knowledge necessary to enter careers and the enduring skills required to be lifelong learners in the use of and application of computer science and information systems; engaging in applied research, scholarly activity; and serving the University and the community.

Description of Discipline

The Computer Information Sciences department provides a range of service courses to all disciplines requiring computer-oriented courses in their degree programs. In addition, the department offers four degree

programs designed to provide individuals the capability of applying computer technology to the solution of problems in many disciplines.

The Bachelor of Science degree in Computer Information Science is designed for students who desire a strong mathematical or science foundation for their degree. This degree requires a 30-hour minor in some area of science or math. Any students planning on graduate study in Computer Science or a closely related field should take this degree.

The Bachelor of Arts degree in Computer Information Science is designed for students who desire a traditional liberal arts degree with less mathematical emphasis. It requires the same Computer Information Science coursework as the BS, with slightly different Math correlated requirements, more General Education courses, and two foreign language courses. It does not require a minor.

The Bachelor of Arts with a concentration in Digital Forensics is a variation on the Bachelor of Arts degree with courses that are designed to train students in digital forensics investigation. Software development is also a strong component of this degree. A student graduating with this degree will be well trained to work as a digital forensics investigator or a software developer with extra skills in digital forensics and security.

The Associate of Arts degree is normally completed in a two-year course of study.

The department also offers optional minors in Computer Information Science and Digital Forensics.

Program Outcomes

The Computer Information Sciences Associate of Arts, Bachelor of Science, and Bachelor of Arts degrees are based on the guidelines provided by the Joint Task Force on Computing Curricula 2001 Volume II Computer Science and the IS Model Curriculum and Guidelines for Undergraduate Degree Programs recommendations.

Student Learning Outcomes

Computer Information Sciences majors at Washburn University, upon graduation, are expected to have:

- Developed analytical and critical thinking skills.
- Acquired knowledge of programming fundamentals.
- Mastered an understanding of different computing environments.
- Mastered an understanding of quantitative and qualitative analysis.
- Acquired knowledge of the role of technology in organizations.
- Developed oral and written communication skills.
- Mastered the ability to integrate theory into practice.

The Minors

Minor programs in Computer Information Science are individually designed by the student in consultation with a departmental advisor and subject to departmental approval.

Programs

- Computer Information Science, BS (p. 117)
- Computer Information Science, BA (p. 118)
- Computer Information Science (Digital Forensics Concentration), BA (p. 118)
- Computer Information Science (Data Science Concentration), BS (p. 119)

- Computer Information Science, AA (p. 119)
- Computer Information Science, Minor (p. 120)
- Computer Information Science in Digital Forensics, Minor (p. 120)

Course Offerings

CM 100 Basic Computer Concepts & Applications (3)

This course is for the student who has little or no knowledge of how to use a computer. General computer education designed to provide students with basic computing and Internet knowledge and skills needed to understand, use, and analyze the application of computers in a world engulfed with technology. This course does not apply toward CIS departmental major requirements. Prerequisite: None

CM 101 Computer Concepts and Applications (3)

Overview of computer hardware, software, applications, and social implications. Emphasis on computer literacy, basic tools and applications to access resources on the Internet, and hands-on experience. The course provides an introduction to word processing, spreadsheet, database, and presentation software, and an introduction to emerging technologies. This course does not apply toward CIS departmental major requirements. Ability to key at least 30 wpm strongly recommended. Prerequisite: None. **(General Ed Natural Science. Information Literacy and Tech.)**

CM 105 Introduction to Computer Science (3)

This course is designed to provide students with a broad perspective of the field of Computer Science, from core issues and concepts inherent to the discipline of computing, to the various sub-disciplines of computer science, and the related ethical issues. Topics include coverage of the various layers of computing including: data, hardware, software, operation systems, applications, and communications. Prerequisite: MA 112 or MA 116, or concurrent enrollment.

(General Ed Natural Science. Information Literacy and Tech.)

CM 111 Introduction to Structured Programming (4)

Establish the basic logic foundation for computer programming. Examine programming paradigms, algorithm development, and object-oriented techniques. Study the syntax and semantics of a higher level language. Design and implement algorithms to solve problems using structured data types. Three credit hours of lecture and a weekly two hour laboratory session. Prerequisite: A grade of C or better in MA 116 (or higher Math Class) or concurrent with MA 116 or an ACT Mathematics score at or above 25 or equivalent knowledge as determined by the CIS Department.

CM 113 Visual Programming (3)

This course will present the fundamentals of programming in a visual programming language. The syntax and semantics of a visual programming language will be presented. The fundamental concepts of the design and implementation of object oriented event driven programming and interactive graphic user interfaces will be covered. The particular visual programming language may vary from course offering to course offering but the language will be specified in the course title listed in the course schedule of the semester the course is offered. Prerequisite: CM 105 or CM 111.

CM 121 COBOL Programming (3)

An introduction to programming typical business applications in COBOL. Emphasis on the fundamentals of structured program design, coding, testing, and documentation. Prerequisite: CM 111.

CM 130 Web Development I (3)

An introduction to basic web development using HTML, cascading style sheets and elementary JavaScript. The emphasis will be on creating well-designed, full-featured web pages that are easy to use and maintain and follow the latest standards. Prerequisite: CM 101 or declared CIS major.

CM 170 FORTRAN Programming (3)

Analysis, design, documentation, coding, and testing structured programs written in the FORTRAN language. Prerequisites: CM 111 and MA 116.

CM 203 Digital Forensics I (3)

An introductory course in digital forensics including an overview of computer and network architecture, security issues of Windows, Mac and Linux operating systems, use of command-line and open-source tools and the basics of cryptography. Prerequisite: MA 116

CM 231 Computer Organization/Assembler Language (3)

Introduction to logical computer organization and architecture. Topics include: Machine level representation of data, Assembly level machine organization, Memory system organization and architecture, Interfacing and communications, and Functional organization. Prerequisite: CM 111.

CM 244 C Programming Language (3)

An introduction to the C programming language and the use of C for applications. All aspects of the C language will be covered including syntax, data types, control structures, operators, data structures, pointers, and file input/output. Prerequisite: CM 111.

CM 245 Contemporary Programming Methods (3)

A study of programming methodology using an object-oriented language. Topics include design with classes, implementation of basic data structures, recursion, language design and translation, event-driven programming, fundamentals of 2-D graphics, and software testing. Prerequisite: CM 111.

CM 261 Networked Systems I (3)

Theory and practice of networking: Network standards, ISO reference model, switching techniques, and protocols LAN installation and configurations. Prerequisite: CM 231.

CM 298 Special Topics/Non-Majors (1-3)

Directed study in an area of information science at the lower division level. This course does not apply toward CIS departmental major requirements. Prerequisite: Consent of instructor.

CM 299 Special Topics/CIS (1-3)

Directed study in an area of information science at the lower division level. Prerequisite: Consent of instructor.

CM 303 Digital Forensics II (3)

A follow-up course in digital forensics using the tools used by professional digital forensic investigators. File system and networking forensics will be covered. Prerequisites: CM 203

CM 306 File Structures Using COBOL (3)

Design and implementation of file structures commonly accessed in business application programming. Discussion of the function of theoretical data structures which can normally be accessed as pre-existing routines. Topics to be covered include: table and array processing; string processing; sequential, relative, and indexed sequential file organization; linked and inverted lists; stacks and queues; binary trees; full screen handling; embedded SQL for database access. Prerequisite: CM 121.

CM 307 Data Structures & Algorithmic Analysis (3)

An introduction to basic algorithmic analysis and algorithmic strategies. Topics include mathematical analysis of the time/space complexity of algorithms, algorithmic strategies such as greedy algorithms, divide and conquer, and dynamic programming algorithms, the use of graphs, trees, priority queues, and other data structures in algorithmic problem solving, basic computability theory, and proof techniques. Prerequisites: MA 206 and CM 245.

CM 310 Introduction to Operations Research (3)

A study of the techniques and topics that are the foundation of operations research. Topics will include: linear, integer and dynamic programming, queuing theory and project scheduling. Prerequisites: CM 111 and either MA 142 or MA 151 and either MA 145 or MA 301 or consent of instructor.

CM 322 Operating System & Networking Concepts (3)

The basic principles of operating system function and design and an in-depth study of the standard UNIX shells and shell scripting. Topics include: processes and dispatching, kernels, virtual memory, concurrence, multithreading, memory management, file systems and the UNIX shells. Prerequisite: CM 231.

CM 325 Computational Methods (3)

The study of the use of the computer for simulation models. The statistical and mathematical models most commonly used in simulation are discussed. Prerequisite: CM 307.

CM 330 Web Development II (3)

A second course in web development using a scripting language and a database. The student will learn to develop web pages that display dynamic content (i.e. content from a database). More advanced features of JavaScript will be introduced as needed. Prerequisite: CM 111 and CM 130.

CM 331 Computational Intelligence (3)

An introduction to the tools, techniques and problem areas of artificial intelligence. These topics include: knowledge representation and reasoning; search and constraint satisfaction; history and ethical questions; logic and deduction; uncertainty and planning. Prerequisite: CM 307.

CM 332 Data Mining (3)

The study of problem solving through the analysis of data. Topics include ethical issues, input design, knowledge representation, and basic data mining algorithms including decision rules and trees, statistical and linear models, and clustering techniques. Prerequisites: CM 307 and MA 140 or consent.

CM 333 Software Engineering (3)

Study of disciplined approaches to the production of quality software products and an examination of some social and professional issues related to software production and use. Topics covered: software requirements and specifications, lifecycle models, design, validation and evolution of software, project management, CASE tools, as well as social and ethical considerations such as intellectual property, risks and liabilities, and privacy. Prerequisite: CM 307 or CM 335.

CM 334 Modeling with VBA/Excel (3)

This course provides the foundation required to build applications that can be used to model typical decision support applications. Topics include (1) fundamentals of developing applications in Excel and VBA, and (2) discussion of specific DSS applications and enhancements to those applications through the application of VBA. Prerequisites: CM 111 and MA 140

CM 335 Advanced Application Programming & Design (3)

Advanced topics in application programming and design using state of the art design techniques and implementation language. Topics include design and implementation of alternative file structures and supporting data access methods; user interface design and implementation; exception handling. Prerequisite: CM 245.

CM 336 Database Management Systems (3)

Conceptual and physical database design, database implementation, and database systems. Topics include: traditional file management systems versus database systems, information modeling, and alternative data models, such as relational and object oriented, data manipulation, transaction management, integrity and security. Prerequisite: CM 307 or CM 335.

CM 337 Systems Analysis & Design (3)

The life cycle of a systems project and characteristics of systems in general. Information gathering methods, communication techniques, and the nature of the decision making process. Defining logical and physical requirements through the use of various manual and automated (CASE) documentation tools and techniques such as data flow diagrams, entity relationship diagrams, decomposition diagrams, class models, behavioral models, and prototyping. Prerequisite: CM 336.

CM 339 Computer Information Science Research (3)

This course provides students an introduction to issues and challenges in CIS research. Students learn to form research questions, conduct literature review, collect data, use statistical techniques to analyze data, and write a research paper for submission to a CIS journal or conference. Prerequisites: CIS major with Junior Standing, or consent of the instructor.

CM 341 Information Security: Technical Issues (3)

In-depth examination of technical issues associated with information security. The tools and techniques necessary to provide information security will be discussed in class and investigated in the laboratory whenever possible. Risks and threats to information security will also be discussed. Prerequisites: CM 261 and CM 322.

CM 342 Information Security: Managerial Issues (3)

An in-depth examination of the administrative aspects of Information Security and Assurance. This course provides the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent reasonable information security system, with appropriate intrusion detection and reporting features. Prerequisite: Junior standing or consent of instructor.

CM 361 Networked Systems II (3)

Network security and management; encryption and compression algorithms; wireless computing. Special emphasis on the TCP/IP protocol suite as used on the web. Prerequisite: CM 261.

CM 363 Computer Networks (3)

Laboratory study of information and procedures needed to build and administer a TCP/IP network and preparation for the Certified Network Associate (CCNA) exam. Lab work on configuration of routing and switching equipment using routing and switching protocols. A knowledge of the basics of TCP/IP and desire to use that protocol to build and administer a operational network are assumed. Prerequisite: CM 261.

CM 370 Software Project Management (3)

Exposure to project management software; review of speakers for business area as well as completion of multiple projects using project management software. Prerequisite: CM 307.

CM 390 Special Topics/Computer Information Science (1-4)

Directed study in an area of Computer Science or Information Systems. Prerequisites: Junior standing and consent of instructor.

CM 400 Systems Analysis Internship (1-6)

Systems analysis, design, and programming in an information processing environment. Evaluation of performance will be the joint responsibility of the college and user supervisors. Enrollment requires real promise in the information systems area, a minimum grade point average of 3.2 in computer science courses, and a well rounded background in computer science. Prerequisites: 21 hours in Computer Information Sciences with a minimum of 12 hours earned at Washburn, declared Major in Computer Information Sciences, and consent of instructor.

CM 401 Systems Analysis Cooperative I (1)

Systems analysis, design, and programming in an information processing environment. Evaluation of performance will be the joint responsibility of the college and user supervisors. Consent for enrollment will be granted only to those students who have shown real promise in the computer science area, have a minimum grade point average of 3.2 in computer science courses, and have a well-rounded background in computer science. Prerequisites: 12 hours in Computer Information Sciences earned at Washburn, declared Major in Computer Information Sciences, and consent of instructor.

CM 402 Systems Analysis Cooperative II (1)

Systems analysis, design, and programming in an information processing environment. Evaluation of performance will be the joint responsibility of the college and user supervisors. Prerequisite: CM 401.

CM 403 Systems Analysis Cooperative III (1)

Systems analysis, design, and programming in an information processing environment. Evaluation of performance will be the joint responsibility of the college and user supervisors. Prerequisite: CM 402.

CM 465 Computer Information Science Capstone Project (3)

This course is designed to provide closure for Computer Information Sciences majors. Group projects will be assigned which allow the student to analyze, design, and implement systems. The student will be provided an opportunity to assimilate and synthesize those skills acquired during the course of study for the major. In addition a couple of standardized tests will be administered. Credit/No Credit Only. Prerequisites: CM333 and CM336 or CM307 and 90 hour.

Computer Information Science, BS Degree Requirements

Code	Title	Hours
Computer Information Sciences Core		
CM 111	Introduction to Structured Programming	4
CM 231	Computer Organization/Assembler Language	3
CM 245	Contemporary Programming Methods	3
CM 261	Networked Systems I	3
Subtotal		13
Computer Information Sciences Required		
CM 307	Data Structures & Algorithmic Analysis	3
CM 322	Operating System & Networking Concepts	3
CM 331 or CM 332	Computational Intelligence Data Mining	3
CM 333	Software Engineering	3
CM 336	Database Management Systems	3
CM 361	Networked Systems II	3
CM 465	Computer Information Science Capstone Project	3

Subtotal	21
Approved CM Electives	
CM electives ¹	12
Subtotal	12
Correlated Courses	
PH 220 Symbolic Logic	3
EC 200 Principles of Microeconomics	3
EC 201 Principles of Macroeconomics	3
BU 342 Organization & Management	3
or BU 346 Organizational Behavior	
EN 208 Professional Writing	3
CN 150 Public Speaking	3
CN 340 Interviewing	3
or CN 341 Persuasive Speaking	
MA 140 Statistics	3
or MA 343 Applied Statistics	
MA 151 Calculus & Analytic Geometry I	5
MA 206 Discrete Mathematics for Computing	3
Subtotal	32
Total Hours	78

¹ These courses should be selected in consultation with a departmental advisor. Minimum of 6 hours must be upper division.

Additional Bachelor of Science Requirements

Students must also meet the Bachelor of Science University Requirements. A 30-hour concentration in the Division of Natural Sciences and Mathematics is required and must be approved by the department chairperson. If the concentration is in Math, the student must take MA 152 Calculus & Analytic Geometry II. At least 20 of these hours must be selected from one discipline. At least 3 hours must be upper division. Transfer students must complete at least nine upper division hours in Computer Information Sciences from Washburn University.

Computer Information Science, BA Degree Requirements

Code	Title	Hours
Computer Information Sciences Core		
CM 111	Introduction to Structured Programming	4
CM 231	Computer Organization/Assembler Language	3
CM 245	Contemporary Programming Methods	3
CM 261	Networked Systems I	3
Subtotal		13
Computer Information Sciences Required		
CM 307	Data Structures & Algorithmic Analysis	3
CM 322	Operating System & Networking Concepts	3
CM 331	Computational Intelligence	3
or CM 332	Data Mining	
CM 333	Software Engineering	3
CM 336	Database Management Systems	3
CM 361	Networked Systems II	3

CM 465	Computer Information Science Capstone Project	3
Subtotal		21
Electives		
Upper Division CM coursework		6
Subtotal		6
Correlated		
Select thirty credits from the following:		30
PH 220	Symbolic Logic	
EC 200	Principles of Microeconomics	
EC 201	Principles of Macroeconomics	
BU 342	Organization & Management	
or BU 346	Organizational Behavior	
CN 150	Public Speaking	
EN 208	Professional Writing	
CN 340	Interviewing	
or CN 341	Persuasive Speaking	
MA 140	Statistics	
or MA 343	Applied Statistics	
MA 141	Applied Calculus I	
or MA 151	Calculus & Analytic Geometry I	
MA 206	Discrete Mathematics for Computing	
Subtotal		30
Total Hours		70

Students must also meet the Bachelor of Arts University Requirements. Transfer students must complete at least nine upper division hours in Computer Information Sciences from Washburn University.

Computer Information Science (Digital Forensics Concentration), BA Degree Requirements

Code	Title	Hours
Computer Information Sciences Core		
CM 111	Introduction to Structured Programming	4
CM 203	Digital Forensics I	3
CM 231	Computer Organization/Assembler Language	3
CM 245	Contemporary Programming Methods	3
CM 261	Networked Systems I	3
Subtotal		16
Computer Information Sciences Required		
CM 303	Digital Forensics II	3
CM 307	Data Structures & Algorithmic Analysis	3
CM 322	Operating System & Networking Concepts	3
CM 331	Computational Intelligence	3
or CM 332	Data Mining	
CM 361	Networked Systems II	3
CM 465	Computer Information Science Capstone Project	3
Subtotal		18
Electives		

Approved upper division CM coursework	6
Subtotal	6
Correlated Courses	
Select correlated courses (p. 119)	27-29
Subtotal	27-29
Total Hours	67-69

Correlated Courses

Code	Title	Hours
AN 118	Introduction to Forensic Science	3
CN 150	Public Speaking	3
PY 100	Basic Concepts in Psychology	3
EN 208	Professional Writing	3
PH 220	Symbolic Logic	3
CN 340	Interviewing	3
or CN 341	Persuasive Speaking	
MA 140	Statistics	3
or MA 343	Applied Statistics	
MA 141	Applied Calculus I	3-5
or MA 151	Calculus & Analytic Geometry I	
MA 206	Discrete Mathematics for Computing	3

Students must also meet the Bachelor of Arts University Requirements. Transfer students must complete at least nine upper division hours in Computer Information Sciences from Washburn University.

Computer Information Science (Data Science Concentration), BS

Degree Requirements

Code	Title	Hours
Computer Information Sciences Core		
CM 111	Introduction to Structured Programming	4
CM 231	Computer Organization/Assembler Language	3
CM 245	Contemporary Programming Methods	3
CM 261	Networked Systems I	3
Subtotal		13
Computer Information Sciences Required		
CM 307	Data Structures & Algorithmic Analysis	3
CM 322	Operating System & Networking Concepts	3
CM 331	Computational Intelligence	3
or CM 332	Data Mining	
CM 333	Software Engineering	3
CM 334	Modeling with VBA/Excel	3
CM 336	Database Management Systems	3
CM 465	Computer Information Science Capstone Project	3
Subtotal		21
Approved CM Electives ¹		12
Correlated Coursework		
PH 220	Symbolic Logic	3
EC 200	Principles of Microeconomics	3

EC 201	Principles of Macroeconomics	3
BU 342	Organization & Management	3
or BU 346	Organizational Behavior	
EN 208	Professional Writing	3
CN 150	Public Speaking	3
CN 340	Interviewing	3
or CN 341	Persuasive Speaking	
MA 140	Statistics	3
MA 151	Calculus & Analytic Geometry I	5
MA 152	Calculus & Analytic Geometry II	5
MA 206	Discrete Mathematics for Computing	3
MA 301	Linear Algebra	3
MA 346	Regression Analysis	3
MA 384	Theory of Interest	3
Subtotal		58
Total Hours		92

¹ Selected in consultation with a departmental advisor with a minimum of 6 hours upper division

Additional Bachelor of Science Requirements

Students must also meet the Bachelor of Science University Requirements. A 30-hour concentration in the Division of Natural Sciences and Mathematics is required and must be approved by the department chairperson. At least 20 of these hours must be selected from one discipline. Transfer students must complete at least nine upper division hours in computer information sciences from Washburn University.

Computer Information Science, AA Degree Requirements

Code	Title	Hours
Computer Information Science Requirements		
CM 111	Introduction to Structured Programming	4
CM 231	Computer Organization/Assembler Language	3
CM 245	Contemporary Programming Methods	3
CM 261	Networked Systems I	3
Select one of the following:		
CM 307	Data Structures & Algorithmic Analysis	3
CM 335	Advanced Application Programming & Design	
CM 361	Networked Systems II	
Subtotal		16
Approved CM Electives		
CM electives ¹		6
Subtotal		6
Required Correlated Courses		
EC 200	Principles of Microeconomics	3
EC 201	Principles of Macroeconomics	3
MA 140	Statistics	3
or MA 343	Applied Statistics	

MA 206	Discrete Mathematics for Computing	3
CN 150	Public Speaking	3
EN 208	Professional Writing	3
Subtotal		18
Total Hours		40

¹ These courses should be selected in consultation with a departmental advisor. At least 3 of the 6 hours must be upper division.

Students must also meet the Associate of Arts University Requirements.

Computer Information Science, Minor Minor Requirements

The minor in Computer Information Science consists of 15 hours of Computer Information Science coursework, including at least six upper division hours. The courses must include:

Code	Title	Hours
CM 111	Introduction to Structured Programming	4
CM 245	Contemporary Programming Methods	3

CM 101 Computer Concepts and Applications will not count toward the minor. Courses may be broadly selected or may concentrate in an area of particular interest.

Computer Information Science in Digital Forensics, Minor

The Minor in Computer Information Science in Digital Forensics will give a student valuable computer skills including those used in digital forensics investigations.

Minor Requirements

The Digital Forensics minor consists of 15 hours of Computer Information Science coursework, including at least six upper division hours. The courses must include:

Code	Title	Hours
CM 111	Introduction to Structured Programming	4
CM 245	Contemporary Programming Methods	3
CM 203	Digital Forensics I	3
CM 303	Digital Forensics II	3

CM 101 Computer Concepts and Applications will not count toward the minor. Other courses may be selected to match the particular interest of the student.

Economics School of Business

Website: www.washburn.edu/business/ (<http://www.washburn.edu/business/>)

Faculty

Professor and Associate Vice President for Academic Affairs Jennifer Ball, PhD

Professor Sungkyu Kwak, PhD
 Professor Dmitri Nizovtsev, PhD
 Professor and Associate Dean of School of Business Russell Smith, PhD
 Professor and Dean of School of Business David Sollars, PhD
 Professor Rosemary Walker, PhD
 Professor Paul Byrne, PhD
 Assistant Professor Manaf Sellak, PhD

Mission

The mission of the Economics program is teaching and instruction, supported by faculty involvement in basic and applied research as well as research that supports the teaching mission. The Economics faculty is committed to offering a high-quality baccalaureate Economics program that provides students with not only a broad general education background but also a thorough professional education. The Economics program offers courses in the University's general education program as well as required and elective courses in other programs on campus, including those offered by the School of Business.

Learning Objectives for the Economics Concentration

Upon completion of the major in Economics, students will be able to do the following:

- Find facts and interpret them consistent with economic thinking.
- Demonstrate an understanding of how decision makers allocate scarce resources to achieve economic efficiency.
- Apply economic tools to analyze decisions made by consumers, firms, and policy makers.
- Use economic models to analyze the impact of various fiscal monetary, and trade policies on a nation's economy.

Honors in Economics

Candidates for the Bachelor of Arts degree, with a major in Economics, may qualify for Honors in Economics provided the following criteria are met:

- Accumulate a GPA of at least 3.50 in all economics courses applied to the BA degree, and
- Demonstrate superior research and/or independent study skills while enrolled in Economics 405, and
- Be approved for honors designation by a two-thirds vote of the School of Business faculty.

In fulfilling conditions (2) and (3), the student will be expected to provide any academic data requested and to provide the School with an extra copy of written work prepared for credit in EC 405 Honors Research in Economics. Written notice of intent to graduate with honors must be submitted by the student to the Office of the Dean, School of Business, early in the semester in which the student expects to graduate. This written notice is separate from any reporting requirements in place when EC 405 Honors Research in Economics is taken as part of the Washburn Transformational Experience (WTE) program.

Programs

- Economics, BA (p. 121)
- Economics, Minor (p. 121)

Course Offerings

Course offerings are listed in the School of Business (p. 273) section of the catalog.

Note: Both the Economics major within the BA degree and the Economics major area of concentration within the Bachelor of Business Administration (BBA) degree program, as well as the minor in Economics, are administered by the Economics faculty within the School of Business. Course descriptions and further information are found in the School of Business section of the catalog. See, also, the subdivisions under Economics in the index.

Economics, BA

The Economics major in the Bachelor of Arts degree is designed to provide the student with an understanding of the principles and institutions governing economic decisions made by households, businesses, and governments. This type of knowledge, combined with studies in related areas, provides an appropriate background for employment in financial and non-financial business firms and governmental agencies. It also provides a solid basis for graduate study in economics, business and public administration, urban planning, international studies, and law.

Degree Requirements

Candidates for the degree of Bachelor of Arts with a major in Economics must meet the University requirements for the degree and, in addition, take:

Code	Title	Hours
Required Courses ¹		
EC 200	Principles of Microeconomics	3
EC 201	Principles of Macroeconomics	3
EC 211	Statistics for Business and Economics	3
EC 300	Microeconomic Analysis ²	3
EC 301	Macroeconomic Theory ²	3
Upper level (300 or above) economics courses		9
Subtotal		24
Calculus Course ¹		
MA 141	Applied Calculus I (or higher level calculus course)	3
Subtotal		3
Total Hours		27

¹ The calculus course and the twenty-four hours of economics offered for the major must be taken on a graded basis and a grade of "C" or better must be earned.

² A grade point average of 2.0 is required before enrollment is permitted

At least fifteen of the twenty-four hours offered for the major must be represented by courses numbered 300 or above. One half of the economics hours used to meet major requirements must be earned at Washburn University.

Candidates for the degree are encouraged to elect courses in mathematics, political science, history, sociology, psychology, and philosophy. Students planning graduate study in economics are strongly

urged to take the BA degree with a minor field of concentration in mathematics.

Economics, Minor

Minor Requirements

The minor in Economics can be earned by candidates for any bachelor's degree offered by Washburn University. The economics faculty has approved the following requirements for the optional minor.

Code	Title	Hours
EC 200	Principles of Microeconomics	6
& EC 201	and Principles of Macroeconomics	
Economics courses numbered 300 or above		9
Approved course in statistics		3
Total Hours		18

A grade of C or better must be earned in each course used to satisfy the requirements of the minor and half of the credit hours in the economics courses used to meet minor requirements must be earned at Washburn University. Please see the current advising sheet for the minor in economics for further details.

Education

Website: www.washburn.edu/education (<http://www.washburn.edu/education/>)

Faculty

Professor Cherry Steffen, PhD, Chair
 Professor Gloria A. Dye, PhD
 Professor Michael Rettig, PhD
 Associate Professor Carolyn Carlson, PhD
 Associate Professor Lisa Douglass, PhD
 Associate Professor Timothy Fry, PhD
 Assistant Professor David Pownell, EdD
 Lecturer Susan Alexander, PhD
 Lecturer Tracie Lutz, MEd
 Lecturer Craig Carter, MEd
 Ms. Tara Porter, Licensure Officer

Mission

Consistent with the mission of the University and the College of Arts and Sciences, the Department of Education is committed to preparing educators to work in rural, suburban, and urban settings, and to educating leaders and professional specialty practitioners for leadership roles in schools and other community settings. It is our goal to ensure that all preservice and inservice educators are provided with numerous clinical and field-based experiences, are knowledgeable of curricula and pedagogy, receive accurate advising, and are provided with the educational supports necessary to be successful and reflective practitioners.

Description of Discipline

Education as a discipline is concerned with the professional and pedagogical knowledge required of effective and reflective teachers. In the process of acquiring professional knowledge, candidates become aware of the psychological, historical, philosophical, and social foundations upon which the discipline rests. From a pedagogical

perspective, candidates become proficient in the skills and knowledge that allow them to organize learning environments, and plan and implement instruction that ensure all children and youth have opportunities to learn.

Student Learning Outcomes

Washburn University professional education candidates, upon graduation, are expected to:

- Demonstrate content knowledge and pedagogical skills.
- Demonstrate the ability to plan and implement instruction including the use of technology.
- Demonstrate that they are accepting of diversity among people and make decisions and adaptations that reflect a commitment to educational equity among students, including those with exceptionalities and reflect positive professional dispositions.
- Demonstrate that they can use assessment information for planning and decision making.
- Demonstrate that they have had a positive impact on P-12 student learning.

Requirements of Majors

Students must meet degree and licensure requirements in place at the time they obtain formal admission to the teacher education program. Students seeking a teaching license will complete courses in three areas: general education courses, professional education courses, and content area courses appropriate for a specific professional license.

Transfer Students

Students transferring from a two or four year institution should meet with a teacher education advisor in the content area department of their interest, and/or the Department Chairperson and/or the Licensure Officer in the Department of Education for an evaluation of transcripts and development of a plan for program completion. Transfer students will be expected to complete requirements for a Washburn baccalaureate degree.

Endorsements

Teachers who are licensed to teach in Kansas may pursue an additional teaching endorsement at Washburn. Interested teachers should contact the Licensure Officer in the Department of Education for a review of licensure requirements and the development of a plan for program completion.

Declaring/Changing Major

Students seeking a baccalaureate degree are required to file a declaration of major by the time they have completed 60 hours. Students pursuing a licensure only program should file a declaration during their first semester. All elementary students must visit with the Department of Education Licensure Officer to declare or change their major or emphasis.

All secondary and P-12 students must contact the appropriate content area department to declare/change their majors.

A student is free to change majors or emphasis at any time. Students may view the Suggested Program of Study for all licensure programs on the Department of Education website: www.washburn.edu/education (<http://www.washburn.edu/education/>).

Admission to Student Teaching

Applications will be accepted only from students who have been formally admitted to the Professional Teacher Education Program. To be eligible for student teaching, students must:

1. have filed a Student Teaching Application a year prior to the student teaching semester
2. have completed all professional education requirements with a grade of C or better
3. have an overall professional education grade point average of 2.75 or better
4. have a specialty grade point average of 2.75 or better
5. and an overall grade point average of 2.5
6. submitted a degree audit
7. and must be approved by the Department of Education.

Program Completer Performance

Colleges which prepare teachers are required by the U.S. Congress to make public annual reports summarizing performance of program completers. The information below summarizes performance of students completing the Washburn University Teacher Education Program during the 2020-2021 academic year.

Pass Rate:

- Content Area Tests 96%

Department of Education Scholarships

Students who have been admitted to the Professional Teacher Education Program are eligible to apply for department scholarships. Scholarship application forms are available on the Department of Education website. Departmental scholarship applications are due February 1st for the following school year. See the Department website for a complete list of scholarships: www.washburn.edu/education (<http://www.washburn.edu/education/>).

Department Awards

Each semester the Department of Education faculty recognizes student achievements through the following awards:

- Julia Etta Parks Outstanding Elementary Student Teaching Award
- Outstanding Early Childhood Education Student Award
- Outstanding Secondary Student Teacher Award
- Donovan W. Cook Outstanding PreK-12 Education Student Teaching Award

Annually, the Department of Education faculty recognizes student achievements through the following award:

- Robert R. Dunwell Award for an Outstanding Future Educational Administrator

Recipients of these awards have their names engraved on permanent plaques in the Department of Education Office and receive individual plaques in recognition of their outstanding teaching performance. Each semester student teachers who have completed the Professional Teacher Education Program with a 3.5 GPA are recognized with the Reflective Educator Award at the Student Teacher Celebration.

Admission to Teacher Education

All students pursuing a Professional Teacher Education Program and a Kansas teaching license must be formally admitted to the Professional Teacher Education Program. See the Department of Education or the teacher education advisor in the content area of interest for an application. Applications are reviewed three times a year. Deadlines for submission of **all** application materials are due by February 1, June 1, or October 1. Upon review of application materials, the Undergraduate Admissions Committee will either recommend or deny admission to a Professional Teacher Education Program. Applicants will be notified in writing regarding their admissions status. Candidates not admitted must resubmit an application for subsequent admission reviews.

Requirements

Degree Seeking Students

- Completion of 24 credit hours of Approved General Education coursework with an overall grade point average of 2.75.
- Completion of ED 155 Teaching, Learning, Leadership and ED 285 Educational Psychology with a grade of C or better.
- An overall grade point average of 2.75 or higher. A C or better in all content specialty courses completed by students seeking admission to all programs.
- Completion of the CORE (Praxis I) with minimum scores of:
 - Writing 162;
 - Reading 156; and
 - Mathematics 150 or better or a score of 22 or better on the ACT or a score of 1110 or better on the SAT.
- Submission of a University Professional Reference form.

Licensure Only Students

- Completion of ED 155 Teaching, Learning, Leadership, and ED 285 Educational Psychology with a grade of C or better.
- Overall grade point average of 2.75 or higher. A C or better in all content specialty courses completed by students seeking admission to all programs.
- Submission of a University Professional Reference form.

Programs

- Elementary Education, BEd (p. 129)
- Middle Grades STEM, BEd (p. 131)
- Content-Specific Licensure Programs (p. 131)
- Early Childhood Education, AA (p. 132)

Course Offerings

Education

ED 150 EPIC Experience I (1)

Supervised school-based field experience in PreK-Secondary school settings designed for potential teacher candidates to investigate teaching as a profession. A minimum of 35 hours in an assigned school setting is required. Orientation to the Washburn teacher education program is included during university classroom sessions. ED 150 must be taken prior to admission to the Professional Teacher Education Program.

ED 155 Teaching, Learning, Leadership (3)

This course is designed to acquaint students with the education profession and to help them develop a realistic understanding of teaching, learning, and leadership. Students will examine motives for teaching, explore the qualities of effective teachers and leadership, and discuss the various diversities teachers encounter as well as the implications for teachers and learning. Students will begin to identify strategies and options for successful classroom practice. Ethical, legal, and controversial issues affecting education today will be addressed along with how to become a teacher leader in the profession. Prerequisite: None.

ED 160 Introduction to Early Childhood Education (3)

This course encourages students to explore their suitability for a career in early childhood education through academic class work and observation of children from birth through third grade. In addition to child development, birth through age 10, students develop a working knowledge of the history, philosophy, theories, goals and practices of educating young children in educational settings. ED 160 is a prerequisite for all other early childhood education courses.

ED 161 Essentials of Early Childhood Education I (4)

Six competency areas of the Child Development Associate (CDA) Program are covered: safety; health; learning environment; physical development; cognitive skills; and communication skills. Both CDA and non-CDA students will be required to participate in field experiences in early childhood settings and to prepare individual portfolios that document proficiency in each of these areas. Prerequisite: ED 160.

ED 162 Essentials of Early Childhood Education II (4)

A continuation of ED 161 covering six additional competency areas of the Child Development Associate (CDA) Program (creativity; self-concept; social skills; guidance; family; program management; and professionalism). Prerequisite: ED 160.

ED 165 Ed. 1, Examining Teaching as a Profession: Diversity 1, Literacy 1, Technology 1 (3)

First in a series of four courses that comprise the foundational education program for future teachers. The four courses address four topics that are essential to establishing and maintaining a successful learning environment: Classroom Management, Diversity, Literacy and Technology. Topics in the first phase are centered around diversity, literacy, and technology. The foundational courses are sequential in nature and build upon the previous course. The courses are intended to be taken in consecutive semesters.

ED 217 Introduction to STEM and STEM Education (3)

This course, introduces the history and current state of STEM (Science, Technology, Engineering and Mathematics) and STEM education while giving students the opportunity to explore the various components of STEM and STEM careers. A strong emphasis is placed upon critical STEM areas (specifically underrepresented populations in STEM and how STEM impacts people and the environment) and STEM in the Community. Students will explore various STEM careers. Prerequisite: None.

ED 225 Becoming an Educational Professional (3)

An overview of professional expectations of teachers. Students will be introduced to an overview of professional expectations of teachers. Students will also be introduced to a variety of teaching models; processes for developing short and long term teaching plans; and strategies for assessing student learning. A review of influences of P-12 students' individual, family, and community characteristics on the teaching and learning process will be explored. The process for developing a professional portfolio is also included. A minimum of 24 hours of school/community field experiences is required. ED 225 must be taken prior to admission to the Professional Teacher Education Program.

ED 243 Infants & Toddlers Early Childhood Education (3)

This course integrates all aspects of developmental early care and education of children from birth to age three, which includes child growth, development, and learning. Prerequisite: ED 160; Concurrent enrollment in ED 245/ED 345.

ED 245 Practicum Infants & Toddlers Education (3)

This course provides students with opportunities to apply the knowledge and concepts of child development with children from birth to age three. Prerequisite: ED 160; Concurrent enrollment in ED 243/ED 343.

ED 261 Techniques-Early Childhood Guidance & Class Management (3)

In this course students will learn ways in which healthy development is fostered within developmentally appropriate child guidance. Techniques and typical guidance procedures appropriate for children from birth through age eight will be explored through readings, class discussion, and observations in group settings. Prerequisite: ED 160 or permission of instructor.

ED 267 Curriculum Development in Preschool Education (3)

The overall purpose of this curriculum development course is to explore teaching/learning strategies and how to support and encourage children in the development of cooperation, creativity, cognition (literacy, mathematics, science and social studies), and motor skills in developmentally appropriate curriculum. Prerequisites: ED 160, ED 243/ED 343, and ED 245/ED 345.

ED 269 Student Teaching in Preschool Education (3)

A supervised field experience in a pre-school setting and a seminar exploring child development issues. This course includes planning, teaching, and assessing developmentally appropriate activities for preschoolers in field placements. Prerequisites: ED 160, ED 343, ED 345, and permission of the instructor; Concurrent enrollment in ED 267/ED 367 and ED 268/ED 368.

ED 275 Ed. 2 Exploring Teaching as a Profession (Classroom Management 1, Diversity 2, Technology 2) Ed. 2 (3)

Second in a series of four courses comprise the foundational education program for future teachers. The four courses address four topics that are essential to establishing and maintaining a successful learning environment: Classroom Management, Diversity, Literacy and Technology. Topics in this phase are centered around further building on diversity and technology, and introducing classroom management. The foundational courses are sequential in nature and build upon the previous course. Prerequisite: ED 165

ED 285 Educational Psychology (3)

The purpose of this course is for students to develop a working knowledge of theories, concepts and models derived from the discipline of psychology as they apply to teaching, learning, and other aspects of educational practice. In addition to theories of learning, motivation, intelligence, students study child and adolescent development. Students also address social, cultural, and family influences on human behavior and human development as well as the experiences of diverse student populations in school settings. ED 285 must be taken prior to admission to the Professional Teacher Education Program. Prerequisite: None.

ED 290 The Whole Child (3)

The Whole Child is an educational child psychology-oriented course which looks at the whole child from birth to age 12. The course explores the developmental levels of the elementary child along with the academic, physical, and social-emotional areas of the child in relation to educating the whole child.

ED 295 Ed. 3 Experiencing Teaching as a Profession (Classroom Management 2, Diversity 3, Literacy 2) (3)

Third in series of four courses comprise the foundational education program for future teachers. The four courses address four topics that are essential to establishing and maintaining a successful learning environment: Classroom Management, Diversity, Literacy and Technology. . Topics in the third phase are centered on reinforcing and enhancing previously covered topics in classroom management, diversity, and literacy. The foundational courses are sequential in nature and build upon the previous course. Prerequisite: ED 275

ED 300 Integrating Technology into Curriculum (3)

This course is designed to equip early childhood, elementary, and secondary preservice teachers with the necessary skills to develop instructional practices that will allow them to incorporate technologies successfully in their classrooms. Prerequisites: Admission to teacher education, CM 101 (or equivalent), MU 123 or KN 333.

ED 301 Classroom Management, Safety, Planning, Pedagogy (3)

This course is a stand-alone course for individuals who need some background in classroom management, safety and planning. The course will provide or strengthen a solid foundation for individuals who are currently or soon to be professional teachers/instructors. Specifically the course will address the needs of individuals who require some additional support in these areas or are teaching under provisional licenses and have not yet completed a licensure program.

ED 302 Teaching Exceptional Learners (3)

A survey of the characteristics and educational needs of all types of exceptional learners, with particular emphasis given to those students included into the regular classroom. Instructional strategies and appropriate resources for various exceptionalities are explored in detail. Prerequisite: Admission to teacher education.

ED 305 Language & Literacy (2)

An overview of language development and the relationship of oral language and literacy. Students learn to assess and stimulate oral language development and emergent literacy skills. Prerequisite: Admission to teacher education.

ED 310 Teaching Math in Elementary School (3)

One course in the unified block in the teaching of mathematics and science. Investigates general content and teaching strategies for each strand of the elementary mathematics program. Problem solving and mental computation will be integrated and the development and use of manipulatives will be stressed. Current curriculum trends and the role of will be explored. Prerequisites: Admission to teacher education and a grade of "C" or better in both MA 112 or MA 116 and MA 228; Concurrent enrollment in ED 315 and ED 317.

ED 314 Chemistry Methods for STEM Edu (3)

This course is designed for pre-service education students and covers a range of chemistry topics related to curriculum and instruction at the middle or secondary grades level. It includes planning instruction, instructional methods and strategies, managing the classroom, assessing student performance, and working with others in the school environment, especially pertaining to the teaching of chemistry. Students are also required to participate in a 6 week observation/practicum and experience actually teaching several lessons in the student's major area. Corequisite: CH 317

ED 315 Teaching Science in Elementary School (3)

One course in the unified block in the teaching of mathematics and science. Methods and materials for teaching knowledge, processes, and applications in physical, earth and life sciences will be developed. Emphasis will be placed on activity-oriented programs. Prerequisites: Admission to teacher education, PS 126, BI 100, and BI 101; Concurrent enrollment in ED 310 and ED 317.

ED 317 Math/Science Practicum (2)

A supervised field experience in the teaching of mathematics and science in the elementary grades. Prerequisites: Concurrent enrollment in ED 310 and ED 315, and admission to teacher education.

ED 318 Earth/Space Science for STEM E (3)

This course is designed for pre-service education students and covers a range of Earth and space science topics related to curriculum and instruction at the middle and secondary level. It is designed to be taught in conjunction with Earth/Space Science for STEM Educators (PS 318). It includes planning instruction, instructional methods and strategies, managing the classroom, assessing student performance, and working with others in the school environment, especially pertaining to the teaching of chemistry. Students are also required to participate in a 6 week observation/practicum and experience actually teaching several lessons in an Earth/Space science classroom. CO-REQUISITE: Earth/Space Science for STEM Educators (PS 318)

ED 319 STEM Practicum I (1)

Catalog Description: Supervised field experience in the teaching of STEM in the middle grades. ED 319 will be taught in conjunction with BI 319 (or an approved substitute). The course will focus on the Biology course content as it relates to teaching the content at the middle grades level. Prerequisite: Admission to Professional Teacher Education Program. Concurrent enrollment in BI 319

ED 320 Teaching Reading in Elementary School (3)

The theory and practice of teaching reading including word attack, comprehension, and study skills. Special emphasis is given to the use of basal and other instructional materials in regular and special reading classes. Prerequisite: Admission to teacher education; Concurrent enrollment in ED 325 and ED 327.

ED 321 STEM Practicum II (1)

Supervised field experience in the teaching of STEM in the middle grades. ED 321 will be taught in conjunction with EG 320 (or an approved substitute) and will focus on the course content as it relates to teaching the content at the middle grades level. Prerequisite: Admission to Professional Teacher Education Program. Concurrent enrollment in EG 320 or approved PY or EG course.

ED 322 Social Studies Content for Elementary Educators (3)

Social Studies Content for Elementary Teachers provides a broad foundation of social studies topics covered in the elementary school classroom. The focus of the course will emphasize the big four disciplines addressed in social studies—History (including American History and World History), Government and Civics, Geography and Economics.

ED 324 Curriculum & Methods of Elementary School Physical Education (4)

Methods in planning, presenting, and administering a physical education curriculum in the middle and elementary schools.

ED 325 Teaching Language Arts & Children's Literature (3)

The theory and practice of teaching oral and written communication skills. Special emphasis is given to the interrelationship between literature for young people and the language arts skills of listening, speaking, reading and writing. Prerequisite: Admission to teacher education; Concurrent enrollment in ED 320 and ED 327.

ED 326 Methods in Secondary School Physical Education (3)

Methods in planning, presenting, administering, and evaluating physical education for middle and secondary school teachers.

ED 327 Literacy Practicum (2)

A supervised field experience in the teaching of literacy skills in the K-6 classroom. Prerequisite: Admission to teacher education; Concurrent enrollment in ED 320 and ED 325.

ED 330 Teaching Social Studies through Integrating Curriculum (3)

This course includes content, methods, and learning theory for effective social studies instruction. Methods for integrating social studies instruction with other content areas, including the arts will be addressed. Special attention is given to methods which promote critical thinking abilities necessary for participation in a diverse democratic society. Prerequisite: Admission to teacher education; Concurrent enrollment in ED 335 and ED 337.

ED 335 Creative Experiences in Early Childhood Through Middle School (3)

Explores various elements of aesthetics, including art, music, drama, dance, and movement and the relationship of such activities to the teaching-learning environment. Emphasis will emphasize use of creative activities to enrich other content areas. Prerequisite: Admission to the Professional Teacher Education Program and concurrent enrollment in ED 330 and ED 337.

ED 337 Social Studies Practicum (1)

One course in a unified block in the teaching of social studies and aesthetics. This course requires students to develop and teach social studies lessons in the elementary school classroom. Prerequisite: Admission to teacher education; Concurrent enrollment in ED 330 and ED 335.

ED 340 Teaching in Adolescent Middle Level Environment (2)

Understanding the unique nature of middle level education will be the focus of this course. Based upon readings, field experience, and class discussion, students will study the nature of adolescent development, curriculum and instruction, programs and collaborative interactions that support an effective middle school program. Prerequisite: Admission to teacher education; Concurrent enrollment in one of the following practicum sections, ED 346, ED 348 or ED 349.

ED 343 Infants & Toddlers in Early Childhood Programs (3)

Integrates all aspects of developmental early care and education of children from birth to age three, which includes child growth, development, and learning. Prerequisite: ED 160 and admission to the Professional Teacher Education Program. Concurrent enrollment in ED 345.

ED 345 Practicum Infants & Toddlers Education (3)

Provides students with opportunities to apply the knowledge & concepts of child development with children from birth to age three. Prerequisite: ED 160 and admission to the Professional Teacher Education Program. Concurrent enrollment in ED 343.

ED 346 Middle Level History Practicum (1)

A supervised field experience in the teaching of history in the middle level classroom. Prerequisite: Admission to teacher education; Concurrent enrollment in ED 340.

ED 348 Middle Level English/Language Arts Practicum (1)

A supervised field experience in the teaching of English/Language Arts in the middle level classroom. Prerequisite: Admission to teacher education; Concurrent enrollment in ED 340.

ED 349 Middle Level Mathematics Practicum (1)

A supervised field experience in the teaching of mathematics in the middle level classroom. Prerequisite: Admission to teacher education; Concurrent enrollment in ED 340.

ED 350 General Secondary Methods (3)

Extensive laboratory and simulated classroom experiences with field-based observation. All secondary majors are required to have at least one methods course, and this course fills the basic requirement when a "special area" methods course is unavailable. All students who enroll in this methods course participate in a field-based teaching experience at various secondary schools. Prerequisite: Admission to teacher education.

ED 352 Methods of Teaching Science in Secondary School (3)

Principles and philosophy of science education; development of the secondary science curriculum; and organization, presentation, and evaluation of science in middle/secondary schools. Includes extensive laboratory and simulated classroom experiences as well as field based observation and class-room participation. Prerequisites: Admission to teacher education and permission of instructor.

ED 353 Assessment & Evaluation in Early Childhood Education (3)

Students in this course will learn how to assess and evaluate young children's development and learning. Typical assessment procedures appropriate for children from birth through third grade will be studied. Techniques will be developed to record children's behavior individually and in group settings. Prerequisite: Admission to teacher education.

ED 354 Curriculum and Assessment (3)

The curriculum and assessment course provides students with an opportunity to examine how to design implement and assess curriculum to address the needs of all learners. Prerequisites: Admission to Teacher Education and ED 275.

ED 355 Principles of Vocational Education & Student Organizations (3)

The development and role of vocational education in public education, the federal vocational education legislation, and the development of student organizations. Prerequisite: Permission of instructor.

ED 362 Methods of Teaching English in Secondary School (3)

The study of and practice in the methods of teaching literature, language, and writing, in the secondary schools. Major concerns include teaching theory; the relationship between oral and written language; language development; language used in various social, regional, and cultural settings; curriculum development and evaluation; and the assessment of students' progress in reading and writing. Students participate in a field-based experience at various secondary schools. Prerequisites: Admission to teacher education and permission of the instructor.

ED 363 Methods of Teaching Math in Secondary School (3)

Principles and methods of teaching the process and content of secondary school mathematics. Includes emphasis and training in general mathematics, algebra, geometry, as well as advanced mathematics. All students who enroll in this course participate in field based teaching experiences at various secondary schools. Prerequisites: Admission to teacher education and permission of the instructor.

ED 366 Methods of Teaching Social Studies in Secondary School (3)

Principles and methods of teaching the process and content of the social studies. Includes emphasis and training in locating information, developing instructional units, and using instructional aids. All students enrolled in this course participate in field-based teaching experiences at various secondary schools. Prerequisites: Admission to teacher education and permission of instructor.

ED 367 Curriculum in Preschool Education (3)

The overall purpose of this curriculum development course is to explore teaching/learning strategies and how to support and encourage children in the development of cooperation, creativity, cognition (literacy, mathematics, science and social studies), and motor skills in developmentally appropriate curriculum. Prerequisites: ED 160, ED 343, ED 345 and admission to the Professional Teacher Education Program. Concurrent enrollment in ED 369.

ED 368 Methods of Teaching Foreign Language (3)

Principles and methods of teaching foreign languages. Extensive laboratory and simulated classroom experiences with field experiences in the classroom. Emphasis given to proficiency oriented teaching of various target languages, developing instructional units, use of multimedia resources, and principles of foreign language testing. Prerequisites: Admission to teacher education and permission of instructor.

ED 369 Student Teaching in Preschool Education (3)

A supervised field experience in a pre-school setting and a seminar exploring child development issues. This course includes planning, teaching, and assessing developmentally appropriate activities for preschoolers in field placements. Prerequisite: ED 160, ED 343, ED 345, and admission to the Professional Teacher Education Program. Concurrent enrollment in ED 367.

ED 375 Teaching Science in Middle School (3)

This course investigates basic content/pedagogy, and the importance of science in a middle school program. How students learn science and effective strategies including inquiry, use of technology, and laboratory experiences will be investigated. Current curriculum trends will be explored and lessons will be developed based on national and state standards. Prerequisite: Admission to the Professional Teacher Education Program.

ED 376 Family, School, and Community Collaboration in Early Childhood Education (3)

Students will examine trends that promote inter-agency and interdisciplinary approaches to serving the needs of young children and their families. The role of the teacher or other education-focused entity of a program will be examined in terms of primary service providers and in terms of team membership at local, state and federal levels. Skills that foster communication and cooperation among families of various cultures will be studied. Prerequisite: Admission to teacher education.

ED 380 Elementary Art Education (3)

Study of the artistic development of children, practice with art materials, techniques, and concepts appropriate to the elementary grades including planning and presentation of art lessons. Production, aesthetics, criticism, and history of artworks is emphasized as the basis for children's growth in art learning. Cross-listed as AR 380.

ED 381 Craft Techniques in Middle/Secondary School (3)

The artistic development of middle and sr. high art students and how it relates to technical/artistic skills. Safety and health hazards of the public schools art room. Hands-on experience with metalry, papermaking, fibers, and earthenware craft processes. The philosophy, traditions, and current position of crafts in the art world. Cross-listed as AR 381.

ED 382 Methods & Philosophy in Art Education (3)

Examination of historical and current theories or art education, the development of personal philosophy of art education, and the determination of curriculum goals and objectives. Effective teaching methods for lesson planning, presentation, and evaluation are studied. Cross-listed as AR 382. Prerequisite: Admission to teacher education.

ED 385 Foundations of Education (3)

A survey course describing the social, cultural, historical, and philosophical bases of American education. Encourages students to develop a professional perspective based upon an understanding of essential educational foundations. Prerequisite: Admission to teacher education.

ED 395 Ed. 4 Extending Teaching as a Profession (Classroom Management 3, Literacy 3, Technology 3) (3)

ED 395 Ed 4. Extending Teaching as a Profession (3) Fourth in series of four courses comprise the foundational education program for future teachers. The four courses address four topics that are essential to establishing and maintaining a successful learning environment: Classroom Management, Diversity, Literacy and Technology. Topics in the fourth phase are centered on reinforcing and enhancing previously covered topics in classroom management, literacy and technology. The foundational courses are sequential in nature and build upon the previous course. Prerequisite: ED 295

ED 400 Understanding the School (2)

Seminar course taught in conjunction with either ED 410, ED 420 or ED 440. Concurrent enrollment with ED 405. Conducted during the first three weeks of the professional semester and one week following the completion of the student teaching experience. Designed to help students synthesize their understanding of schools, to reflect upon their student teaching experience, and to integrate educational theory and practice. Prerequisite: Admission to the Professional Teacher Education Program and admission to Student Teaching.

ED 402 Teaching Struggling Learners (2)

This course is designed to assist the preservice teacher in understanding how to identify, assess, plan and teach individuals who are struggling in their learning. Preservice teachers will survey problems that block some students from successful achievement in reading, writing, math and general learning tasks. The preservice teacher will develop the knowledge and skills necessary to assess and analyze problems and to provide appropriate instructional strategies for specific learning problems. Prerequisite: Admission to the Professional Teacher Education Program and ED 302 or SE 476. Concurrent enrollment in Language Arts Block for K-6 licensure candidates.

ED 405 Classroom Management (1)

Various methods of managing classrooms and student behaviors in diverse learning environments. Concurrent enrollment in ED 400 and either ED 410, ED 420, or ED 440. Prerequisite: Admission to the Professional Teacher Education Program and admission to Student Teaching.

ED 410 Secondary Student Teaching (6-12)

Directed and supervised teaching of content in 6-12 classrooms. Students are assigned to Topeka and neighboring schools for a period of twelve weeks. Not available for graduate credit. May be taken on a Pass/fail basis only. Prerequisites: Completion of appropriate professional education courses, and teaching specialization courses, and admission to student teaching.

ED 415 5th-8th Grade Student Teaching (4)

Directed and supervised teaching of content in 5-8 classrooms. Students are assigned to Topeka and neighboring schools for a period of six weeks. Not available for graduate credit. May be taken on a pass/fail basis only. Prerequisites: Completion of appropriate professional education courses, middle school teaching content courses, and admission to student teaching.

ED 420 K - 6 Student Teaching (8-12)

Directed and supervised student teaching for a minimum 8 weeks in a K-6 classroom. Not available for graduate credit. May be taken on a pass/fail basis only. Prerequisites: Completion of appropriate professional education courses, and teaching specialization courses, and admission to student teaching.

ED 425 Observation and Supervision (1)

Supervised teaching in a P-12 classroom. This course may be taken for graduate credit and may be repeated. Prerequisite: Permission of the department chair.

ED 430 Student Teaching Birth to Grade 3 (4)

Directed and supervised student teaching in a kindergarten through grade three educational setting. Not available for graduate credit. May be taken on a pass/fail basis only. Prerequisites: Completion of appropriate professional education courses, and teaching specialization courses, and admission to student teaching.

ED 440 Student Teaching Grades P-12 (4-12)

Directed and supervised student teaching in grades Pre-Kindergarten through grade 12 educational setting. Not available for graduate credit. May be taken on a pass/fail basis only. Prerequisites: Completion of appropriate professional education courses, and teaching specialization courses, and admission to student teaching.

ED 450 Methods & Cross-Cultural Communication (3)

Emphasis on practical methods of teaching English as a Second Language and strategies for working with speakers of other languages. Includes a review of resource materials, lesson planning, and in-class teaching practice as well as an analysis of problems posed by conflicting cultural and language habits. Prerequisites: Admission to Teacher Education.

ED 456 Advanced Children's Literature (3)

Advanced survey and analysis of the literature written for children through middle school with instructional applications. A variety of literary forms explored with emphasis on evaluation and development of specific strategies to enhance reader/listener comprehension and appreciation. Emphasis given to planning lessons which incorporate children's literature in instruction across the curriculum. Prerequisite: Senior standing.

ED 461 ESOL Assessment Administration Teacher Education (2)

This course focuses on language assessment theory and practice in ESOL settings. The content of the course will include purposes for assessment, types of assessment including alternative assessment and construction of assessment instruments. Central issues in the assessment of language will be presented and analyzed. Prerequisite: Admission to the program.

ED 463 ESOL Teaching and Learning (3)

This course is designed to provide students with a critical understanding of instructional delivery which caters for the linguistic and literacy needs of minority/heritage communities. The focus of this course is located within postmodernist principles of cultural capital, discursive practices and difference. Students will be required to engage with the political debates and resultant educational ramifications concerning bilingual education, dual language programs, ESOL education, as well as other issues such as power and inequalities in language education. This sociocultural-critical theoretical framework will provide students with the basis to then negotiate issues of second language learning, critical pedagogy, language varieties, multicultural communities as well as critical literacy and reading development. Prerequisite: Admission to the program.

ED 464 ESOL Practicum-Assessment & Administration Teacher Education (3, 4)

A supervised clinical experience with three ESOL learners of different levels (one elementary level learner, one middle level learner, and one secondary level learner). Students administer tests, analyze data, determine the learners' strengths and weaknesses, develop instructional plans for each learner, select and implement appropriate strategies and materials, and assess progress towards instructional goals using skills developed as critical and reflective professionals. Appropriate conduct is maintained with parents and classroom teachers with oral or written reports as deemed appropriate. Prerequisites: ED 450, ED 463, ED 461, and ED 462.

ED 466 Linguistics for ESOL Teachers (3)

This course provides an introduction to language as a system, with a particular focus on teaching English as a second language to students in public schools, in grades P-12. Among the topics addressed are: first and second language acquisition processes; English phonology, morphology, syntax, and discourse; implications for teaching English language learners the four language skills – listening, speaking, reading, and writing; and implications for teaching content-specific language (math, science, social studies). Prerequisites: Admission to Teacher Education.

ED 472 Issues in Modern American Education (3)

Critical analysis of contemporary problems and issues in American education. Consideration of historical, sociological, and philosophical foundations affecting problems and issues included. This course is part of the graduate core. May also be taken for undergraduate credit.

ED 474 Special Topics in Education (0-3)

Courses in special topics that will vary from semester to semester and will be announced in advance. ED 474 may be taken for more than one semester. Prerequisite: Permission of the Department Chairperson.

ED 497 Independent Study in Education (1-3)

Intensive guided study in a special topic in education. Independent Study in Education is available only to candidates for teaching licenses. Prerequisites: Admission to an approved program of study and written approval of the Chairperson of the Department of Education.

Reading**RD 484 Reading in Content Areas (3)**

A study of the specific reading skills relating to the various disciplines found in middle and secondary schools. This course addresses the philosophy that the effective content teacher includes the teaching of reading as an essential element for affecting the content. Emphasis is given to the importance of pre and post assessment of students' reading skills and abilities, comprehension strategies, thinking and study skills, readability of materials and collateral reading. This course is required for all middle school and secondary school majors in the State of Kansas. This course may be taken for undergraduate and graduate credit. Prerequisite: Admission to teacher education.

Special Education**SE 420 Planning for Children and Youth with Mid-Moderate Disabilities (3)**

Introduction to programming, planning and scheduling procedures to structure the learning environment for pre-school and elementary students with learning and behavioral problems. Emphasis placed on establishment of procedures for laws and regulations, regular class integration, student and teacher time management, class scheduling, grading practices, and student/program evaluation. Prerequisite: Admission to the Professional Teacher Education Program and ED 302.

SE 422 Educational Planning for Youth with Disabilities (3)

Introduction to programming, planning and scheduling procedures to structure the learning environment for middle and secondary school students with learning and behavioral problems. Emphasis placed on establishment of procedures for regular class integration, student and teacher time management, class scheduling, grading practices, and student/program evaluation. Prerequisite: Admission to the Professional Teacher Education Program and ED 302.

SE 430 Methods & Materials for Teaching Youth with Disabilities (Pre K-Grade 5) (3)

Emphasis on selection and implementation of instructional methods including affective and learning behaviors, selection and adaptation of materials to support student learning, behavior, and social adjustment in regular education classroom. IEP development. Prerequisites: Admission to teacher education and ED 302.

SE 432 Methods & Materials for Teaching Youth with Disabilities (Grade 6-12) (3)

Emphasis on selection and implementation of instructional methods including affective and learning behaviors, selection and adaptation of materials to support student learning, behavior, and social adjustment in regular education classroom. Prerequisite: Admission to the Professional Teacher Education Program and ED 302.

SE 440 Individual & Group Management - Children & Youth with Disabilities (3)

Principles and applications of individual and group management techniques for children and youth with mild/moderate disabilities. Topics addressed include various theoretical approaches, practical techniques, and assessment procedures. Prerequisites: Admission to teacher education and ED 302.

SE 456 Special Education Practicum (4)

Directed and supervised intensive teaching experiences with children with mild/moderate disabilities in educational settings which include elementary age children. Prerequisite: Admission to the Professional Teacher Education Program, ED 302, and Admission to Student Teaching.

SE 460 Exceptions-Early Childhood (3)

Focuses on children with disabilities ages birth through grade three. Emphasis is placed on understanding assessment, uses of technology, working with families, development of IEP's/IFS'P, legal and historical foundations, program models, and collaboration with school personnel. Prerequisite: ED 302.

SE 476 Psychology of the Exceptional Student (3)

Historical and current practices relating to the educational characteristics, needs, and placement alternatives for exceptional students. Emphasis placed on procedure and strategies for teaching exceptional students in the regular classroom. Prerequisites: Admission to teacher education.

Elementary Education, BEd

The K-6 teaching program prepares students to teach in kindergarten through sixth grade classrooms. Students may choose to complete a second license in one of six areas at the same time they complete preparation for the K-6 license.

These areas include:

- Early Childhood Unified (Birth-Grade 3 includes special education)
- Middle School English/Language Arts (Grades 5-8)
- Middle School Mathematics (Grades 5-8)
- Middle School History (Grades 5-8)
- High Incidence Special Education (Grades K-6)
- English for Speakers of Other Languages (ESOL) (Grades P-12)

Candidates for degrees and licenses in these areas are advised by the Faculty of the Department of Education. See an advisor for specific licensure requirements or visit the Department of Education website (www.washburn.edu/education (<http://www.washburn.edu/education/>)).

K-6 Licensure Requirements-Professional Education

Pre-admission courses required for formal admission to teacher education:

Code	Title	Hours
ED 155	Teaching, Learning, Leadership	3
ED 285	Educational Psychology	3

Formal Admissions Courses

Code	Title	Hours
Block A		
ED 330	Teaching Social Studies through Integrating Curriculum	3
ED 335	Creative Experiences in Early Childhood Through Middle School	3
ED 337	Social Studies Practicum	1
Block B		
ED 310	Teaching Math in Elementary School	3
ED 315	Teaching Science in Elementary School	3
ED 317	Math/Science Practicum	2
Block C		
ED 320	Teaching Reading in Elementary School	3
ED 325	Teaching Language Arts & Children's Literature	3
ED 327	Literacy Practicum	2
Select one of the following:		2-3
KN 311	Motor Development (fall)	
KN 340	Adapted Physical Education (spring)	
KN 344	Physical Education Activity Techniques IV (spring)	

Professional Semester

Select one of the following:		3-8
ED 420 & ED 415	K - 6 Student Teaching and 5th-8th Grade Student Teaching	
SE 456	Special Education Practicum	

Core

ED 165	Ed. 1, Examining Teaching as a Profession: Diversity 1, Literacy 1, Technology 1	3
ED 275	Ed. 2 Exploring Teaching as a Profession (Classroom Management 1, Diversity 2, Technology 2) Ed. 2	3
ED 295	Ed. 3 Experiencing Teaching as a Profession (Classroom Management 2, Diversity 3, Literacy 2)	3
ED 302	Teaching Exceptional Learners	3
ED 354	Curriculum and Assessment	3
ED 395	Ed. 4 Extending Teaching as a Profession (Classroom Management 3, Literacy 3, Technology 3)	3

General Education/University Requirements

EN 101	First Year Writing	3
EN 300	Advanced College Writing (Teaching Emphasis)	3

WU 101	The Washburn Experience	3
CN 150	Public Speaking	3
<i>Arts and Humanities</i>		
Art, Music or Theatre Arts Elective (from the Approved General Education List)		3
English, Philosophy, or Religion Elective (from the Approved General Education List)		3
<i>Social Sciences</i>		
HI 111	History of the United States through the Civil War	3
or HI 112	History of the United States since the Civil War	
Select one of the following:		3
HI 100	Survey of Early World History	
HI 101	Changing World History: Traditions and Transitions	
HI 102	Modern World History	
GG 101	Introduction to Geography	3
or GG 102	World Regional Geography	
PO 106	The Government of the United States	3
or PO 107	Kansas and the U.S., State and Local Government	
AN 112	Cultural Anthropology	3
EC 100	Introduction to Economics	3
<i>Mathematics and Natural Sciences</i>		
MA 112	Contemporary College Mathematics (or higher)	3
MA 200	Number & Operation for Elementary Teachers	3
MA 299	Special Topics in Mathematics	1
PS 126	Physical Science for Elementary Educators	5
BI 100	Introduction to Biology (General Emphasis)	3
BI 101	Introductory Biology Laboratory	2

Courses for Early Childhood Unified Emphasis

Code	Title	Hours
ED 160	Introduction to Early Childhood Education	3
ED 343	Infants & Toddlers in Early Childhood Programs	3
ED 345	Practicum Infants & Toddlers Education	3
ED 367	Curriculum in Preschool Education	3
ED 369	Student Teaching in Preschool Education	3
SE 460	Exceptions-Early Childhood	3
ED 376	Family, School, and Community Collaboration in Early Childhood Education	3
SE 420	Planning for Children and Youth with Mid-Moderate Disabilities	3
ED 353	Assessment & Evaluation in Early Childhood Education	3

Courses for Middle School English/Language Arts Emphasis

Code	Title	Hours
EN 330	American Literature through 1865	3
EN 133	Stories Around the World	3
EN 310	English Grammar/Linguistics	3

EN 320	Teaching Young Adult Literature	3
ED 340	Teaching in Adolescent Middle Level Environment	2
ED 348	Middle Level English/Language Arts Practicum	1

Courses for Middle School History Emphasis

Code	Title	Hours
HI 111	History of the United States through the Civil War	3
HI 112	History of the United States since the Civil War	3
HI 100	Survey of Early World History	3
HI 101	Changing World History: Traditions and Transitions	3
HI 322	Kansas History	3
HI 303	Colonial America to 1763 (or any 300 level American History)	3
ED 340	Teaching in Adolescent Middle Level Environment	2
ED 346	Middle Level History Practicum	1

Courses for Middle School Mathematics Emphasis

Code	Title	Hours
MA 140	Statistics	3
MA 117	Trigonometry	3
MA 204	Number Theory and Discrete Math for Middle School and Secondary Teachers	3
MA 230	Math Middle/Secondary Teachers	4
MA 320	Mathematics for Middle School Teachers	3
ED 340	Teaching in Adolescent Middle Level Environment	2
ED 349	Middle Level Mathematics Practicum	1

Courses for High Incidence Special Education Emphasis (K-6)

Code	Title	Hours
SE 420	Planning for Children and Youth with Mid-Moderate Disabilities	3
SE 430	Methods & Materials for Teaching Youth with Disabilities (Pre K-Grade 5)	3
SE 440	Individual & Group Management - Children & Youth with Disabilities	3

Total Hours 9

Courses for English for Speakers of Other Languages (ESOL) Emphasis (P-12)

Code	Title	Hours
ED 450	Methods & Cross-Cultural Communication	3
ED 461	ESOL Assessment Administration Teacher Education	2
ED 466	Linguistics for ESOL Teachers	3
ED 463	ESOL Teaching and Learning	3

Middle Grades STEM, BEd

Pending Washburn University Board of Regents and Kansas State Department of Education approval

The focus of the Middle Grades STEM Education program is on science and mathematics education and on integrating STEM throughout the curriculum. The program prepares students for licensure in both mathematics and science education in grades 6-8. Candidates for the degree and licensure in Middle Grades STEM Education are advised by the faculty of the Department of Education.

Pre-admission courses required for formal admission to teacher education:

Code	Title	Hours
ED 155	Teaching, Learning, Leadership	3
ED 285	Educational Psychology	3
Total Hours		6

Education Core Courses:

Code	Title	Hours
ED 165	Ed. 1, Examining Teaching as a Profession: Diversity 1, Literacy 1, Technology 1	3
ED 275	Ed. 2 Exploring Teaching as a Profession (Classroom Management 1, Diversity 2, Technology 2) Ed. 2	3
ED 295	Ed. 3 Experiencing Teaching as a Profession (Classroom Management 2, Diversity 3, Literacy 2)	3
ED 395	Ed. 4 Extending Teaching as a Profession (Classroom Management 3, Literacy 3, Technology 3)	3
ED 302	Teaching Exceptional Learners	3
ED 354	Curriculum and Assessment	3
ED 420	K - 6 Student Teaching	8-12
Total Hours		26-30

Content/General Education/University Requirements:

Code	Title	Hours
University Requirements		
EN 101	First Year Writing	3
EN 300	Advanced College Writing	3
MA 116	College Algebra ¹	3
Subtotal		9
Arts and Humanities		
CN 150	Public Speaking	3
Humanities Electives (from approved General Education List in 2 disciplines)		6
Subtotal		9
Social Sciences		
PY 100	Basic Concepts in Psychology	3
PY 211	Adolescent Psychology	3
SO 101	Social Problems	3

Subtotal		9
Mathematics and Natural Sciences		
AS 104	Life in the Universe	3
BI 100	Introduction to Biology	3
MA 117	Trigonometry	3
MA 140	Statistics	3
MA 204	Number Theory and Discrete Math for Middle School and Secondary Teachers	3
MA 230	Math Middle/Secondary Teachers	4
MA 320	Mathematics for Middle School Teachers	3
MA 381	History and Literature of Mathematics	3
PS 108	Physical Science	3
Subtotal		28
STEM Courses		
ED 217	Introduction to STEM and STEM Education	3
CH 317	Chemistry for STEM Educators I	3
ED 314	Chemistry Methods for STEM Edu	3
PS 318	Earth and Space Science for STEM Educators I	3
ED 318	Earth/Space Science for STEM E	3
BI 319	Biology for STEM Educators	3
ED 319	STEM Practicum I	1
EG 320	Engineering for STEM Educators	3
ED 321	STEM Practicum II	1
Subtotal		23
Total Hours		78

¹ Must take MA 116 and not MA 112 to satisfy this degree

Content-Specific Licensure Programs

Washburn offers course work and clinical experiences leading to subject specific teaching licenses. These programs are delivered collaboratively between the Department of Education where students complete professional education courses, and College of Arts and Sciences Departments offering content in a teaching licensure area. Students major in the content area they wish to teach, and in most instances, receive a degree from the specific content area department. Students should consult with their content area advisor for degree requirements and the Department of Education advisor for licensure requirements. Content areas, level of license, degrees and Department-contacts are listed below.

All Levels Prekindergarten - Grade 12

Content Area	Level of Licensure	Contact
Art	BFA	Ms. Akkouche
French	BA	Dr. O'Brien
Music	BM	Dr. Cook-Cunningham
Physical Education	BEd	Dr. Dirks
Spanish	BA	Dr. O'Brien

Early-Late Adolescence -Grades 6-12 (Secondary)

Content Area	Level of Licensure	Contact
Biology	BA/BS	Dr. Emry
Chemistry	BA	Dr. Schmidt
English/Lang. Arts	BA	Dr. Wade
History/Gov't	BA	Dr. Goossen
Math	BA	Dr. Sharp

Degree Requirements

Code	Title	Hours
Professional Education (Pre-Admission Courses Required for Admission to Teacher Education)		
ED 155	Teaching, Learning, Leadership	3
ED 225	Becoming an Educational Professional	3
Subtotal		6
Core Education Courses		
ED 165	Ed. 1, Examining Teaching as a Profession: Diversity 1, Literacy 1, Technology 1	3
ED 275	Ed. 2 Exploring Teaching as a Profession (Classroom Management 1, Diversity 2, Technology 2) Ed. 2	3
ED 295	Ed. 3 Experiencing Teaching as a Profession (Classroom Management 2, Diversity 3, Literacy 2)	3
ED 302	Teaching Exceptional Learners	3
ED 354	Curriculum and Assessment	3
Select one of the following:		3
ED 350	General Secondary Methods (in the specific content area)	
ED 3XX	Methods of Teaching (in the specific content area)	
Subtotal		18
Professional Semester		
ED 410 or ED 440	Secondary Student Teaching Student Teaching Grades P-12	12
Total Hours		36

General Education Requirements

Students should consult with an advisor in the content specific department to ensure that they enroll in general education courses that meet both teacher licensure requirements, as well as general education courses required for graduation in the major.

Major/Licensure Content Requirements

Students should consult with an advisor in the content specific department to ensure that they enroll in content specific courses that meet both teacher licensure requirements and course requirements for the major. In addition, students should consult with a Department of Education advisor or licensure officer to ensure that the professional education requirements are met.

Licensure Only

Students holding a baccalaureate degree from an accredited institution may complete requirements leading to a specific teaching license without completing a second baccalaureate degree. All general education requirements will be deemed as met, except those that are supportive to and/or prerequisite for courses required by a specific teaching license. Students with a baccalaureate degree should meet with a teacher education advisor in the content area department of their interest, and/or the Licensure Officer in the Department of Education for an evaluation of transcripts and development of a plan for completion of courses leading to a teaching license.

These programs are available for individuals who have graduated with a 4 year degree and are interested in pursuing requirements for a teaching license and not an additional degree.

All Levels P-12 Programs

- Art
- French
- Spanish
- Music
- Physical Education
- Optional second license in High Incidence Special Education (6th-12th grade) or ESOL (P-12 grade) available

Elementary K-6 Programs

- Elementary (K-6th grade)
- Elementary with optional second license in Early Childhood Unified (birth-3rd grade including special education)
- Elementary with optional second license in Middle School English (5th-8th grade)
- Elementary with optional second license in Middle School History (5th-8th grade)
- Elementary with optional second license in Middle School Math (5th-8th grade)
- Elementary with optional second license in High Incidence Special Education (K-6th grade)
- Elementary with optional second license in ESOL (P-12th grade)

Secondary 6-12 Programs

- Biology
- Chemistry
- English
- History
- Math
- Optional second license in High Incidence Special Education (6th-12th grade) or ESOL (P-12 grade) available

Early Childhood Education, AA

Degree Requirements

This program is no longer accepting majors.

Code	Title	Hours
Professional Education		
ED 155	Teaching, Learning, Leadership	3
ED 160	Introduction to Early Childhood Education	3

ED 161	Essentials of Early Childhood Education I	4
ED 162	Essentials of Early Childhood Education II	4
ED 243	Infants & Toddlers Early Childhood Education	3
ED 245	Practicum Infants & Toddlers Education	3
ED 285	Educational Psychology	3
ED 267	Curriculum Development in Preschool Education	3
ED 269	Student Teaching in Preschool Education	3
ED 261	Techniques-Early Childhood Guidance & Class Management	3
KN 271	First Aid and CPR	2
Subtotal		34
General Education Requirements		
<i>Arts and Humanities</i>		
EN 101	First Year Writing	3
CN 150	Public Speaking	3
Art, Music, or Theater Elective (from the Approved General Education List)		3
English, Philosophy, or Religion Elective (from the Approved General Education List)		3
Subtotal		12
<i>Social Sciences</i>		
PY 100	Basic Concepts in Psychology	3
HI 111	History of the United States through the Civil War	3
or HI 112	History of the United States since the Civil War	
AN 112	Cultural Anthropology	3
Subtotal		9
<i>Mathematics and Natural Sciences</i>		
MA 112	Contemporary College Mathematics (or higher)	3
Select one of the following:		5
PS 126	Physical Science for Elementary Educators	
BI 100 & BI 101	Introduction to Biology and Introductory Biology Laboratory	
Subtotal		8
<i>Kinesiology</i>		
KN 271	First Aid and CPR	2
Subtotal		2
Total Hours		65

Engineering Transfer Program

Department of Physics and Astronomy

Website: www.washburn.edu/physics (<http://www.washburn.edu/physics/>)

Faculty

Senior Lecturer and Coordinator Keith Mazachek, PhD

Engineering courses allow engineering transfer students to complete most of the program common to the first two years at most recognized

schools of engineering. They also provide a background of application to theory for students majoring in mathematics and the physical sciences.

Student Learning Outcomes

Students participating in the engineering transfer program at Washburn University, upon graduation, are expected to have:

- Acquired an understanding of the different engineering disciplines and functions.
- Acquired a solid foundation in mathematics, the sciences, and basic engineering necessary to further their engineering education; and develop the ability to progress from observations to logical conclusions, applying analytical and critical thinking.

A joint "3-2" dual degree program with Kansas State University, the University of Kansas, and the University of Missouri-Kansas City enables a student to earn both a Bachelor of Science in Physics, Mathematics, Chemistry, or Computer Information Sciences at Washburn University, and a Bachelor of Science in Engineering at one of the other universities. Three years are spent at Washburn University pursuing the BS in one of the majors above. Upon satisfactory completion of this work, the student will be eligible for transfer to KSU, KU, or UMKC. Upon satisfactory completion of additional work as agreed upon by the student, the advisory committee, and the chairperson of the department involved, the student will receive the appropriate BS from Washburn University. Upon satisfactory completion of the requirements of the engineering school, the student will be awarded a BS in Engineering from that school. This program will normally take five years, but depending upon the particular field of engineering, the time may vary.

Due to the complexities of transferring to engineering schools with different major requirements and to avoid taking courses not fulfilling engineering degree requirements, it is imperative that the engineering student be advised in their course of study by the engineering transfer program coordinator.

Programs

- Engineering-Physics, AS (p. 134)

Course Offerings

EG 105 Introduction to Engineering (3)

Introduction to the professional role of an engineer with an orientation to the academic requirements of engineering studies, responsibilities of engineering students and professionals, discussion of various engineering careers, job site duties, professional development and registration and engineering ethics. Included are problem definition and solution, engineering design and terminology and the role of technology and its influence on society.

EG 116 Engineering Graphics (3)

Elements of geometry of engineering drawing with emphasis on spatial visualization and applications. Freehand sketching, dimensioning, and graphs. Computer aided design and engineering analysis. Prerequisite: EG 105 or consent of instructor.

EG 250 Engineering Mechanics: Statics (3)

Vector notation; resultants of force systems; analysis of force systems in equilibrium including beams, frames and trusses; analysis of systems involving friction forces; determination of centroids, centers of gravity, second moments of areas, moments of inertia. Prerequisites: MA 151 and PS 281.

EG 320 Engineering for STEM Educators (3)

Designed to introduce concepts and applications of engineering to STEM educators. Course will explore various experimental, analysis, and design situations to develop knowledge about how objects work together to perform a function. Experiments will develop an understanding of basic engineering concepts such as motion, solid mechanics, fluid mechanics, thermodynamics, electricity, and magnetism. Analysis of experiments will provide recognition of experimental variables and their relationships to mathematical equations. Significant emphasis is on conceptual understanding of how mathematics and physics work together to solve engineering problems. This course does not satisfy any engineering prerequisite/requirement outside of the STEM education program. Prerequisite: BI 319 Biology for STEM Educators with a "C" or better; concurrent enrollment in MA 320 Mathematics for Middle School Teachers.

EG 351 Engineering Mechanics: Dynamics (3)

Displacement, velocity, and acceleration of a particle; relation between forces acting on rigid bodies and the changes in motion produced; translation; rotation; motion in a plane; solutions using the principles of force, mass and acceleration, work and energy, and impulse and momentum. Prerequisites: EG 250 and MA 152.

EG 360 Mechanics of Materials (3)

Elementary theories of stress and strain, behavior of materials, and applications of these theories and their generalizations to the study of stress distribution, deformation, and instability in the simple structural forms that occur most frequently in engineering practice. Prerequisites: EG 250 and MA 253.

Engineering-Physics, AS

Degree Requirements

To major in Engineering Physics with an Associate of Science Degree, one must satisfactorily complete:

Code	Title	Hours
Required		
EG 250	Engineering Mechanics: Statics	3
EG 351	Engineering Mechanics: Dynamics	3
PS 281 & PS 282	General Physics I and General Physics II	10
Subtotal		16
Correlated Courses		
MA 151 & MA 152 & MA 253	Calculus & Analytic Geometry I and Calculus & Analytic Geometry II and Calculus/Analytic Geometry III	13
CH 151 or BI 102	Fundamentals of Chemistry I General Cellular Biology	5
Subtotal		18
Electives		
	Elective courses (p. 134)	12
Subtotal		12
Total Hours		46

Electives

Code	Title	Hours
BI 102	General Cellular Biology	5
CH 151	Fundamentals of Chemistry I	5

CH 152	Fundamentals of Chemistry II	5
EG 116	Engineering Graphics	3
EG 360	Mechanics of Materials	3
MA 301	Linear Algebra	3
MA 331	Differential Equations	3
Any upper-division Physics courses		3

English

Department of English

Website: www.washburn.edu/english (<https://www.washburn.edu/english/>)

Associate Professor Vanessa Steinroetter, PhD, Chair
Professor Eric McHenry, MA

Associate Professor Melanie Burdick, PhD
Associate Professor Kara Kendall-Morwick, PhD
Associate Professor Mary Sheldon, PhD
Associate Professor Danny Wade, PhD
Associate Professor Corey Zwikstra, PhD
Assistant Professor Erin Chamberlain, PhD
Assistant Professor Andy Farkas, PhD
Assistant Professor Louise Krug, PhD
Assistant Professor Bradley Siebert, PhD
Assistant Professor Muffy Walter, PhD
Senior Lecturer Karen Barron, MFA
Senior Lecturer Dennis Etzel, Jr., MFA
Senior Lecturer Izzy Wasserstein, MFA
Senior Lecturer David Weed, PhD
Lecturer Liz Derrington, MFA

Mission

Consistent with the mission of the University and the College of Arts and Sciences, the Department of English seeks to satisfy the needs and aspirations of three different groups of students:

- Those taking English to satisfy the University's writing requirements.
- Those taking English to satisfy general education Humanities requirements.
- Those taking English to satisfy major requirements in one of three undergraduate emphases: Literature and Film Criticism, Creative Writing, and English Education.

English majors will acquire the skills and habits of mind that serve them well in all occupations and professions. They will learn to read carefully, write effectively, exercise good judgment in solving problems, and flexibly adopt different points of view. More specifically, students will become knowledgeable about great literature (American, British, and World) and writing, understand how language functions in communication and the arts, and appreciate and understand how human beings from different cultures and/or from different times have used the literary arts to shape experiences thoughtfully and meaningfully. Students will acquire the ability to express these ideas via analysis, creative thinking, and writing. Writing majors will experience a broad range of writing experiences, literature majors will analyze and interpret a variety of literary works, and education majors will learn current methods for teaching processes of reading, writing, speaking, listening, thinking, and viewing and their interconnections.

Student Learning Outcomes

English majors at Washburn University, upon graduation, will be able to:

- Identify and articulate major developments in British, American, and World Literature.
- Interpret how the diverse range of human experiences, identities, and cultures is reflected in language, literature, and multimedia texts.
- Analyze how language works, especially regarding grammar, writing conventions, and rhetorical situations.
- Demonstrate knowledge and understanding of the forms, genres, and conventions of literary and multimedia texts.

In addition to these shared learning outcomes,

- Writing majors will have created and revised texts in a broad range of literary forms.
- Literature majors will have composed and presented scholarly research that interprets and analyzes a variety of literary and/or multimedia texts.
- Education majors will have planned, designed, and implemented instruction and assessments for reading, literature, composition, diversity, and social justice.

University Writing Requirements

All students graduating from Washburn must take six hours of composition courses, three at the first year level and three at the junior level.

Most first year students will take EN 101 First Year Writing. For those students who do not feel adequately prepared for EN 101 First Year Writing, the English Department offers EN 100 Developmental English. This course, taught by full-time faculty members, offers smaller classes and individual attention to students who need additional preparation and practice. Students are allowed to decide for themselves whether they would feel more comfortable with the supplemental support that 100 offers. This “directed self-placement,” however, can be aided by consultation with members of the English faculty, individual advisors, and advisers in the Office of Academic Advising.

The second required composition course is EN 300 Advanced College Writing. This course, which is designed to be taken in the junior year, prepares students for advanced academic writing. Students who have 60 credit hours are eligible to enroll in EN 300 Advanced College Writing. Students are encouraged to talk to their advisors and to faculty members in the English Department to determine which course is right for them.

The Major

Students majoring in English have three options. They may major in English with a literature and film criticism emphasis or in English with a creative writing emphasis or in English Education, where they will prepare to teach secondary English.

English Honors

English departmental honors are offered to majors graduating with a 3.7 or higher English GPA and a 3.5 or higher overall GPA.

Inscope: The Washburn Literary Arts Review

A student staff produces the annual Washburn literary magazine, *Inscope*. Short stories, drawings, photographs and poetry by students, faculty, staff, and the surrounding community are considered for publication. *Inscope* is published each spring and is available for sale in the Washburn Bookstore and the English Department throughout the year.

Programs

- Creative Writing, BA (p. 140)
- English Literature and Film Criticism, BA (p. 140)
- English Education, BA (p. 140)
- English Education, BEd (p. 141)
- English, Minor (p. 141)

Course Offerings

EN 100 Developmental English (3)

Small classes and individual attention, focusing on developing the basic habits of good writing through short writings and culminating in the writing of organized and developed themes. Does not count towards degree credit hour requirements or general education requirements.

EN 101 First Year Writing (3)

Study of and practice with the processes of writing for college courses, especially discovering, drafting, reflecting, revising, and editing. Further attention given to research: rhetorical reading, citation integration, and effective documentation. Required, with a minimum grade of C, for graduation. Prerequisite: None.

(Communication.)

EN 102 Freshman English Honors (3)

The analysis of texts that purport to gather facts, to structure experience into pleasing formal structures, to persuade others to action, judgment, or evaluation, and to articulate principles whose power shapes diverse experiences into meaningful patterns of coherence. The writing of expository prose that communicates thoughtfully and clearly the results of those analyses. Open to those students accepted into the University Honors Program and by invitation from the Composition staff.

EN 103 Academic Reading & Research (3)

This course provides training and practice in academic reading, writing, and research for students who desire more focused instruction in using academic texts, including syllabi, rubrics, textbooks, and articles. There will be instruction and practice in different methods of reading and responding to texts in writing and orally. Students will read a variety of texts, including a book-length text, and will create a culminating project which synthesizes their course reading with personal research. Students who complete the course will be more confident and competent in their interactions with college-level texts. Prerequisite: None.

(General Ed Humanities. Communication.)

EN 105 Introduction to English Studies (3)

This course provides a firm grounding in English as an academic discipline, covering a variety of concepts and approaches critical to English studies. The course will emphasize building students' critical and creative vocabulary, knowledge, and skills in order to foster future success both in English coursework and in their academic careers more generally. Prerequisite: None.

(General Ed Humanities. Critical and Creative Thinking.)

EN 110 Multicultural American Literature (3)

A study of literature written by, and expressing the perspectives of, authors from diverse ethnic, racial, and cultural groups in the United States, including but not limited to Native Americans, African Americans, Asian Americans, and Latino/a Americans, as well as multiracial, multicultural, and other culturally diverse Americans. Course readings include poetry, drama, fiction, and autobiographical non-fiction.

Prerequisite: None.

(General Ed Humanities. Global Citizenship Ethics Div.)

EN 112 Masterpieces of American Literature (3)

Focuses on celebrated and influential works of fiction, drama, and poetry by American authors from the late eighteenth through the early twenty-first centuries. Prerequisite: None.

(General Ed Humanities. Critical and Creative Thinking.)

EN 113 Medieval Popular Culture (3)

In this course, students will discover what life, literature, and culture were like in the Middle Ages and how medieval culture has continued to influence popular culture throughout history up until the present day. From Tolkien's *Lord of the Rings*, to *Game of Thrones* in books and on TV, to *Romances*, to video games, to Renaissance painting and modern architecture, medieval culture has inspired all sorts of cultural forms and entertainments. Students' investigations into the world of medieval popular culture will be both critical and creative, seeking to understand culture and history, connect culture across periods, and enjoy the fun ways cultural products and ideas, especially but not only literature, are recycled over time in new contexts and for new purposes. Prerequisite: None.

(General Ed Humanities. Critical and Creative Thinking.)

EN 116 Mystery Literature (3)

Mystery fiction, still a popular form of literature today, is a longstanding genre that has been evolving for the last two centuries. The course will examine some of the most important mystery writers of the 19th and 20th centuries. The mystery genre has taken several forms over the years, in large part due to the social history and culture of a particular time period. Over time the mystery genre has shifted from "the novel with a secret" to more complicated examinations of character, an emphasis on psychology over plot, and further explorations of both setting and theme. Many of the novels read are written by authors who became well-known in the mystery genre for developing a certain literary type, technique, or situation that other writers would continue to explore in the years that followed. The course will explore several prominent themes in this type of fiction, in particular the propensity for violence, murder, crime, and the appeal of other taboo subjects. The role of the reader is also critical to the genre as the shadow figure who in part determines which secrets are revealed or disguised, how the characters are developed for a connection to or isolation from the reader, and how the drama itself is written expressly for readers seeking the "thrill" of the mystery. Prerequisite: None.

(General Ed Humanities. Critical and Creative Thinking.)

EN 131 Understanding Short Fiction (3)

This course provides an introduction to reading and analyzing short fiction, with a particular emphasis upon the short story. Readings will include works of short fiction from a range of historical and cultural contexts and will represent a variety of genres. Students will develop a critical vocabulary and analytical skills to foster better understanding of and appreciation for short fiction as a literary form.

(General Ed Humanities. Communication.)

EN 133 Stories Around the World (3)

Focuses on modern and contemporary fiction by European, Latin American, Asian, Middle Eastern, and African authors.

(General Ed Humanities. Global Citizenship Ethics Div.)

EN 135 Introduction to Literature (3)

The appreciation of literature showing relationships through analysis of different genres.

(General Ed Humanities. Critical and Creative Thinking.)

EN 138 Kansas Literature (3)

A study of Kansas through its poetry, short stories, novels, and journalism. Lectures on Kansas history provide background as an aid to better understanding the literature. A study of the literature of pioneering, the small town, and contemporary accounts of Kansas, its land and people.

(General Ed Humanities. Critical and Creative Thinking.)

EN 145 Shakespearean Afterlives (3)

This course considers Shakespeare's plays and the methods and media used to revise and adapt those plays for modern audiences. Students will read selected Shakespeare plays and then read, watch, and play various adaptations and appropriations of those works, focusing on how and why Shakespeare and his plays continue to find new life in print and on-screen. Students will also have the opportunity to create and perform their own versions of Shakespeare's work in the course. Prerequisite: None.

(General Ed Humanities. Critical and Creative Thinking.)

EN 177 Science Fiction (3)

Selected novels and short stories depicting innovations and discoveries in science and their impact on people, society, and the universe.

(General Ed Humanities. Critical and Creative Thinking.)

EN 178 Fantasy (3)

Selected novels and short stories depicting fictive worlds that contemporary knowledge considers impossible.

(General Ed Humanities. Critical and Creative Thinking.)

EN 190 Film Appreciation (3)

Film as a mode of artistic expression with emphasis on selected films, short and feature-length, American and foreign, for understanding and appreciation. Stress will be given to the development of a "vocabulary" with which to discuss, criticize, and otherwise enjoy film art. May be repeated with a change of content.

(General Ed Humanities. Critical and Creative Thinking.)

EN 192 Literature & Film (3)

A study of literary texts and their adaptations into the medium of film, with emphasis on the comparative strengths and weaknesses of each version. Stress will be given to the critical vocabulary shared by these narrative forms.

(General Ed Humanities. Critical and Creative Thinking.)

EN 193 Types of Popular Culture (3)

Examination of subjects and themes in popular literature, with focus on the relationship between popular genres and the traditional canon. May be repeated with change of content.

EN 199 Special Topics - Writing/Reading (1-3)

A variable topic course in selected subjects in literature and language. See schedule for current offerings.

EN 206 Beginning Poetry Writing (3)

An introduction to and practice in the writing of poetry. Prerequisite: EN 101 or EN 102.

(General Ed Humanities. Communication.)

EN 207 Beginning Nonfiction Writing (3)

An introduction to and practice in the writing of memoir, narrative essays, New Journalism, travel writing and other nonfiction forms. Prerequisite: EN 101 or EN 102.

(General Ed Humanities. Communication.)

EN 208 Professional Writing (3)

A review of the basic essentials of business/technical usage and style, with emphasis on organizing ideas and managing basic business and technical writing forms. Prerequisite: EN 101 or EN 102.

(General Ed Humanities. Communication.)

EN 209 Beginning Fiction Writing (3)

An introduction to and practice in the writing of the short story.

Prerequisite: EN 101 or EN 102.

(General Ed Humanities. Communication.)

EN 210 Mythologies in Literature (3)

A study of mythologies that have been a reference point for literature, focusing mainly on Greek and Roman materials, but drawing upon others such as Norse, Celtic, Gaelic, and Eastern. Readings will include both literary works and supplemental texts.

(General Ed Humanities. Critical and Creative Thinking.)

EN 212 Sexuality & Literature (3)

Examines the various roles that sexuality, which includes categories such as intimacy, sex, gender, and sexual orientation, has played in literature and film.

(General Ed Humanities. Critical and Creative Thinking.)

EN 214 Women & Literature (3)

This course surveys literature by women from the medieval to the contemporary periods. Particular attention is given to recurring themes and issues addressed by women writers, as well as how the intersection of gender with factors like class, race, and ethnicity impacts women's experiences and their literary representation. Readings consist of representative works of fiction, poetry, drama, and select nonfiction by women of diverse backgrounds.

(General Ed Humanities. Critical and Creative Thinking.)

EN 235 Survey of Drama I (3)

Greek to Elizabethan. Play reading in historical context. A study of the elements of production and performance practice and style which emerge representative of period. Periods: Greek, Roman, Medieval, Elizabethan. Nations: Europe, Britain, Japan, China, and India. Cross listed with TH 206. Cannot enroll for credit in both EN 235 and TH 206. Not regularly offered.

EN 236 Survey of Drama II (3)

Restoration to Modern. Play reading in historical context. A study of the elements of production and performance practice and style representative of the period. Periods: Restoration, French and Spanish Classicism, Neoclassicism, Realism, Impressionism. Cross listed with TH 207. Cannot enroll for credit in both EN 236 and TH 207. Not regularly offered.

EN 240 Introduction to Film Studies (3)

This course provides students with an introduction to the elements, techniques, and vocabulary critical to the study of film as a medium. The course will emphasize building students' critical vocabulary, knowledge, and skills through the discussion of numerous films from various genres and historical periods. Prerequisite: None.

(General Ed Humanities. Critical and Creative Thinking.)

EN 299 Special Topics - Reading/Writing (1-3)

A variable topic course in selected subject in literature and language. See schedule for current offering. Not regularly offered.

EN 300 Advanced College Writing (3)

Intensive writing and revision practice designed to help students develop skills needed to write successful analyses and arguments in their academic disciplines and their careers. Focus on critical thinking about how writing works in various appropriate contexts and on advanced research writing. Some sections for specific academic programs. Required, with a minimum grade of C, for graduation.

(Communication.)

EN 301 Literary Criticism & Theory (3)

Practical criticism and writing, stressing the types and methods of critical approaches to literature, ancient and modern, and their application in the interpretation of literary works. Students taking the course for graduate credit will write a substantial additional paper focusing on one aspect of the relationship between critical theory and an individual work or author. Prerequisites: EN 101 or EN 102 and EN 300. For EN 601, admission to MLS program or consent.

EN 305 Advanced Fiction Writing (3)

Continued practice in fiction writing with special emphasis on technique. Students taking EN 605 will, in addition to the short stories due as work for 305, revise and edit their stories and write an introduction that shows how their practice of craft has been shaped by their experience in the course. Prerequisite: EN 209 or consent. For EN 605, admission to MLS program or consent.

EN 306 Advanced Poetry Writing (3)

Continued practice in poetry writing with special emphasis on technique. Students taking EN 606 will be required to select at least five of the poems due as work for 306 and write an introduction to those five that shows how their practice of craft has been shaped by their experience in the course. Prerequisite: EN 206 or consent. For EN 606, admission to MLS program or consent.

EN 307 Advanced Nonfiction Writing (3)

Continued practice in the writing of creative nonfiction, including but not limited to personal essay, memoir, literary journalism, travel and science writing. Students taking EN 607 will develop writing projects of considerable length and/or research depth. Prerequisite: EN 207 or consent. For EN 607, admission to the MLS program or consent.

EN 308 Technical Writing (3)

A pre-professional writing course for students entering technical fields. Not regularly offered. Prerequisite: EN 300 or equivalent.

EN 309 ESL Methods & Cross-Cultural Communication (3)

Designed for those who work with non-English speakers. Special emphasis on improving intercultural understanding, on the interaction of language and culture, and on language learning and language teaching. Not regularly offered.

EN 310 English Grammar/Linguistics (3)

Description and analysis of English grammar, its smallest parts up through how those parts are expressed as meaningful discourse. Instruction in how to understand and discuss the English language effectively. Studies the dynamics (formal, historical, social) of language as a particularly human form of communication. Investigates what language is and how it works, how language changes and varies over time and place, and how language is used in social contexts. Students will learn major linguistic categories of phonology (sounds), morphology (words), syntax (sentences), and semantics (meaning), and ask questions about rules and standards of usage, as well as issues of style and politics as they pertain to English language use. Graduate students must write a substantial paper developing in greater detail one of the topics covered in the course. Prerequisite for EN 610: admission to MLS program or consent.

EN 312 Theories of Persuasive Writing (3)

Study of theories about how people use language/writing persuasively to shape knowledge and opinion. The course focuses on selected theoretical readings from the history of mainstream and marginalized rhetorics. The course will build students' understanding of rhetorical theory and their skill in using it to analyze persuasive writing in their areas of interest. Prerequisites: EN 101, First-Year College Writing. Completion of EN 300, Advanced College Writing, or simultaneous enrollment strongly recommended.

(General Ed Humanities. Critical and Creative Thinking.)

EN 315 Reading as Writers (3)

Practice in the study of literature from a writer's perspective, primarily exploring the elements of craft involved in creating literary art (point of view, voice, style, prosody, figurative language, diction, syntax). Through critical analysis, aesthetic investigation, and imitation, students will discover the various tools writers employ to create meaning. Students taking EN 615 will be expected to write a paper of 20 pages analyzing the elements of craft involved in one or more essays by a non-fiction writer chosen in consultation with the professor. Prerequisite for EN 615: admission to MLS program or consent.

EN 320 Teaching Young Adult Literature (3)

This course provides pre-service teachers intensive instruction in ways to teach young adult literature at the middle school and high school levels, including a focus on reading strategies, response strategies, reading engagement and motivational strategies, discussion strategies, lesson design, and instruction. Attention will also be given to the content and history of young adult literature, the diversity inherent in the genre, and censorship and selection of young adult literature. Prerequisite: None.

EN 321 Teaching Composition (3)

Students will conduct, review, analyze, and discuss the teaching of composition, applying the best research-based strategies for elementary- and secondary-level learners from diverse perspectives. Pre-service teachers of literacy will explore writing as a process and develop instructional practices that will increase their students' writing abilities across the curriculum. Students will also reflect on their learning as they study and practice instructional methods in microteaching opportunities. The course will emphasize the writing process, purposes of writing, grammar and conventions, response groups, multigenre writing, research writing, technology resources, struggling writer strategies, instructional practice and design strategies, and assessment and evaluation techniques. Prerequisites: EN 300.

EN 325 British Literature Through 1785 (3)

Covers major literary movements, major authors, and the careful reading of masterpieces through 1785. Students in 625 will write a substantial paper, including scholarship, on selected works of a single author from the Middle Ages, Renaissance, or 18th Century on a topic chosen in consultation with the professor. Prerequisite for EN 625: admission to MLS program or consent.

EN 326 British Literature since 1785 (3)

This course examines the major literary movements in Britain from the Romantic period to the present in relation to their historical and cultural contexts. This class also surveys how the genres of poetry, the novel, the short story, and drama emerge and evolve through the late eighteenth to the early twenty-first centuries. Students in EN 626 will write an extended research paper on a topic chosen in consultation with the instructor. Prerequisite for EN 626: admission to MLS program or consent.

EN 330 American Literature through 1865 (3)

The course provides a survey of early American literature from pre-Columbian legends through the end of the Civil War. Graduate students will be required to investigate in depth one of the following areas: colonial literature, early national literature, or the literature of the American Renaissance. Prerequisite for EN 630: admission to MLS program or consent.

EN 331 American Literature since 1865 (3)

The course provides a survey of American literature from the Civil War to the present in historical and generic contexts. It stresses close readings of individual texts of fiction, poetry, and drama. Graduate students will select one major author and examine his/her treatment in literary criticism during last fifty years. Prerequisite for EN 631: admission to MLS program or consent.

EN 332 Literature of American West (3)

Focuses on the fiction, but also includes the autobiographies, poetry, and/or essays, of authors shaped by the landscape, diverse peoples, and values of the American west.

(General Ed Humanities. Critical and Creative Thinking.)

EN 336 Contemporary Theatre (3)

A study of developments in playwriting, directing, acting since WWI to the present with special emphasis on influences that have affected contemporary theatre and drama. Graduate students must prepare an oral report on an assigned work of literary (or dramatic) criticism and must write a research paper of 15-20 pages with full scholarly apparatus. Cross listed with TH 306. Cannot enroll for credit in both EN 336 and TH 306. Prerequisite for EN 636: admission to MLS program or consent. Not regularly offered.

EN 337 Short Story (3)

This course provides an introduction to the history and characteristics of the short story as a literary form. Students will read representative works of short fiction from a variety of cultural and historical contexts in order to better understand how writers have adapted the short story form to represent the diverse range of human experience.

EN 345 Shakespeare (3)

Students read, discuss, and write on some of Shakespeare's poetry and a selection from the Comedies, Tragedies, and Histories. Consideration of historical and cultural contexts of the plays, as well as their performance history, will help us appreciate both the works and the culture which inspired their. Graduate students will conduct primary research on topics of their choosing. Prerequisite for EN 645: admission to MLS program or consent.

EN 350 Major Authors (3)

The advanced study of a major literary author or two authors. Special attention will be paid to the evolution of an author's writing style within the historical and cultural framework in which he or she was writing. May be repeated with change of content. Prerequisite: None.

EN 360 World Literature through 1650 (3)

This course focuses on close readings of masterpieces in world literature to 1650 in relation to their historical and cultural contexts. Attention is given to authors and genres of central importance, and how emerging themes evolve over the centuries. Prerequisite: None.

EN 361 World Literature since 1650 (3)

This course focuses on close readings of masterpieces in world literature from 1650 to the present in relation to their historical and cultural contexts. Attention is given to authors and genres of central importance, and how emerging themes evolve. Prerequisite: None.

EN 370 Medieval Literature (3)

A survey of English literature in the Middle Ages with special emphasis on the works of Chaucer. Special attention to the contextual relationship of literature and the thought and culture of the period. Prerequisite for EN 670: admission to MLS program or consent.

EN 371 Renaissance Literature (3)

A survey of the literature written from 1475 to 1660, focusing on major poets and dramatists, such as Spenser, Shakespeare, Jonson, Donne, and Milton, but also lesser-known writers such as the Countess of Pembroke and Aemilia Lanyer. Special attention to the contextual relationship of literature and the thought and culture of the period. Graduate students will additionally write a substantial research paper on a topic of their choosing. The course also requires two class presentations on selected writers of the period, drawing on current scholarly criticism. Prerequisite for EN 671: admission to MLS program or consent.

EN 372 Restoration & 18th Century Literature (3)

A survey of the principal genres and major authors of literature written between 1660 and 1800. The course may emphasize a certain genre such as the novel or satire, or an individual author such as Jonathan Swift, Aphra Behn, Samuel Johnson, Henry Fielding, or Fanny Burney. Special attention to the contextual relationship of literature and the thought and culture of the period. Graduate students must present an oral report on an assigned work of literary (or dramatic) criticism and must additionally write a substantial research paper with full scholarly apparatus. Prerequisite for EN 672: admission to MLS program or consent.

EN 373 Romantic & Victorian Literature (3)

Readings in Romantic and Victorian literature. The course begins with Wordsworth's expressions of religion in nature, working through selections from the other major Romantics, and concludes with the prophetic and public solutions to the problems of industrial England offered by Carlyle, Tennyson, Ruskin, and Arnold. Special attention to the contextual relationship of literature and the thought and culture of the period. Graduate students must present an oral report on an assigned work and must additionally write a substantial research paper with full scholarly apparatus. Prerequisite for EN 673: admission to MLS program or consent.

EN 374 Modern Literature (3)

Readings will cover the expressions of Modernism in all the major creative arts with primary focus on the reading and analysis of selected "modernist" literary writers from the genres of fiction, poetry, and drama. Some attention to defining the concept and historical parameters of "modernist". Prerequisite for EN 674: admission to MLS program or consent.

EN 375 Contemporary Literature (3)

Readings in the literary milieu from 1960 to the present in poetry, short fiction, and the novel with attention to the cultural, social, and historical context of individual works and their authors. Graduate students will additionally write a substantial paper, including contemporary scholarship, examining one author, theme, or movement from this period. Prerequisite for EN 675: admission to MLS program or consent.

EN 376 Nineteenth Century American Literature (3)

Readings in nineteenth century American literature from the rise of literary nationalism through the Gilded Age, with special focus on the major literary movements of the period. Graduate students must write a research paper of 15-20 pages with full scholarly apparatus. Prerequisite: None.

EN 380 Modern Poetry (3)

Major British and American poets from about 1890 to 1945, including Yeats, Eliot, and Frost. Prerequisites: None.

EN 381 Drama (3)

A study of drama as a literary form. Students will read representative works of drama from a variety of contexts. Graduate students will complete additional assignments appropriate to the post-baccalaureate level. Prerequisite for EN 681: admission to MLS program or consent.

EN 382 Modern Novel (3)

This course will examine the novel as a literary form, paying particular attention to the origins and development of the genre from the 18th century through to the contemporary period. Graduate students will complete additional writing and research in consultation with the professor. Prerequisite for EN 682: admission to MLS program or consent.

EN 384 Publishing Lab (3)

Students gather, evaluate and edit creative manuscripts to produce and publish a literary magazine. Prerequisite: EN 305, EN 306, or EN 307.

EN 385 Directed Reading/Writing/Research (1-3)

Designed to investigate a field of special interest which will not be covered in detail in the courses offered by the department. After securing the approval of the chairperson of the department and the consent of a member of the department who is prepared to supervise their reading, students will carry out their projects with the supervising teacher. Prerequisite: consent of instructor.

EN 390 Aspects of Film (2-3)

Variable specified content in film, such as the American novel into film, the science fiction film, western novels in film. May be repeated with change of content.

EN 393 Literature of Pop Culture (3)

The study of such individual literary topics as the western, detective fiction, sports literature, and prizewinning novels. Students taking this course as 693 will write a substantial paper, including scholarly research, examining one author, theme, or movement in the genre under consideration. The topic will be chosen in consultation with the instructor. May be repeated with change of content. Prerequisite for EN 693: admission to MLS program or consent.

EN 396 Topics in Women & Literature (3)

An advanced study of the works of a major woman author, the women writers of a particular period or in a particular genre, or a thematic study of women writers. Not regularly offered. Prerequisite: 3 hours of one of the following: EN 330, EN 331, EN 360, or EN 361. For EN 696: admission to MLS program or consent.

EN 399 Special Topics - Writing/Reading (1-3)

See schedule for the current offerings.

EN 400 Senior Seminar (3)

This capstone course serves as the culminating experience for the literature emphasis of the English major. Students work together as a class with a faculty member on a specific topic of ongoing research in the faculty member's area of expertise. Prerequisites: English literature major, senior status, and consent.

EN 402 Internship (1-3)

Applicants should be majors and minors who have second semester junior or senior status, and the approval of their academic advisor and the internship coordinator. Interns will be supervised by the internship coordinator and a workplace supervisor(s). Prerequisites: 15 hrs. of English courses completed, including EN 105, EN 300, and 9 hours at the 300 level, as well as a 3.0 GPA in English coursework.

EN 499 Special Topics - Teaching and Study of English (1-3)

Special topics of a varying nature for teachers doing in-service work, for graduate students in education and English education, and upper-division English majors. Not regularly offered.

Creative Writing, BA

Degree Requirements

Thirty-nine total English hours required, including core requirements, but excluding EN 101 First Year Writing and EN 300 Advanced College Writing. The Creative Writing emphasis major's field program should look as follows:

Code	Title	Hours
Core Requirements		
EN 105	Introduction to English Studies	3
EN 206	Beginning Poetry Writing	3
EN 207	Beginning Nonfiction Writing	3
EN 209	Beginning Fiction Writing	3
EN 301	Literary Criticism & Theory	3
EN 310	English Grammar/Linguistics	3
EN 315	Reading as Writers	3
EN 384	Publishing Lab (the capstone for writing majors)	3
Subtotal		24
Additional Courses		
Select two of the following:		6
EN 305	Advanced Fiction Writing	
EN 306	Advanced Poetry Writing	
EN 307	Advanced Nonfiction Writing	
Select three of the following (at least one from each area):		9
<i>British Literature</i>		
EN 325	British Literature Through 1785	
EN 326	British Literature since 1785	
<i>American Literature</i>		
EN 330	American Literature through 1865	
EN 331	American Literature since 1865	
<i>World Literature</i>		
EN 360	World Literature through 1650	
EN 361	World Literature since 1650	
One writing or literature correlate course from outside the major ¹		3
Subtotal		18
Total Hours		42

¹ Chosen in consultation with advisor and department chair

English Literature and Film Criticism, BA

Degree Requirements

Thirty-nine total English hours required, including core requirements, but excluding EN 101 First Year Writing and EN 300 Advanced College

Writing. The Literature and Film Criticism emphasis major's field program should look as follows:

Code	Title	Hours
Core Requirements		
EN 105	Introduction to English Studies	3
EN 301	Literary Criticism & Theory	3
EN 310	English Grammar/Linguistics	3
EN 400	Senior Seminar (the capstone for literature majors)	3
Subtotal		12
Literature Surveys		
Select five of the following:		15
<i>British Literature</i>		
EN 325	British Literature Through 1785	
EN 326	British Literature since 1785	
<i>American Literature</i>		
EN 330	American Literature through 1865	
EN 331	American Literature since 1865	
<i>World Literature</i>		
EN 360	World Literature through 1650	
EN 361	World Literature since 1650	
Subtotal		15
Option A- Literature Track		
EN 380	Modern Poetry	3
or EN 382	Modern Novel	
Choose three upper-division EN literature or film classes ¹		9
Subtotal		12
Option B- Film Criticism Track		
EN 240	Introduction to Film Studies	3
Choose three upper-division EN film classes		9
Subtotal		12
Total Hours		51

¹ at least two must be literature

English Education, BA

Degree Requirements

Thirty-six total English hours required, including core requirements, but excluding EN 101 First Year Writing and EN 300 Advanced College Writing with the teaching emphasis. Students who plan to teach in secondary schools should consult with the English Education advisor in the department at an early date. Students should also consult the Education Department (p. 132) section of the catalog regarding Admission requirements and Professional Education course requirements.

The English Education major's field program should look as follows:

Code	Title	Hours
Core Requirements		
EN 105	Introduction to English Studies	3
EN 301	Literary Criticism & Theory	3
EN 310	English Grammar/Linguistics	3
EN 320	Teaching Young Adult Literature	3

EN 321	Teaching Composition	3
Subtotal		15
Literature Surveys		
Select four of the following (at least one from each sequence):		12
<i>British Literature</i>		
EN 325	British Literature Through 1785	
EN 326	British Literature since 1785	
<i>American Literature</i>		
EN 330	American Literature through 1865	
EN 331	American Literature since 1865	
<i>World Literature</i>		
EN 360	World Literature through 1650	
EN 361	World Literature since 1650	
Subtotal		12
Group A- Literary Forms		
Select one of the following:		3
EN 337	Short Story	
EN 380	Modern Poetry	
EN 381	Drama	
EN 382	Modern Novel	
Group B- Literary Periods		
Select one of the following:		3
EN 370	Medieval Literature	
EN 371	Renaissance Literature	
EN 372	Restoration & 18th Century Literature	
EN 373	Romantic & Victorian Literature	
EN 374	Modern Literature	
EN 375	Contemporary Literature	
EN 376	Nineteenth Century American Literature	
Group C- Major Authors		
Select one of the following:		3
EN 345	Shakespeare	
Major Author course approved by the departmental chairperson		
Subtotal		9
Total Hours		36

English Education, BEd

Forty-six total English hours required, including core requirements, but excluding EN 101 First Year Writing and EN 300 Advanced College Writing with the teaching emphasis. Students who plan to teach in secondary schools should consult with the English Education advisor in the department at an early date. Students should also consult the Education Department (p. 132) section of the catalog regarding Admission requirements and Professional Education course requirements.

The English Education major's field program should look as follows:

Code	Title	Hours
Core Requirements		
EN 105	Introduction to English Studies	3
FL 101	Beginning Foreign Language I	4
EN 301	Literary Criticism & Theory	3

EN 310	English Grammar/Linguistics	3
EN 320	Teaching Young Adult Literature	3
EN 321	Teaching Composition	3
Subtotal		19

Literature Surveys		
Select four of the following (at least one from each sequence)		12

<i>British Literature</i>		
EN 325	British Literature Through 1785	
EN 326	British Literature since 1785	

<i>American Literature</i>		
EN 330	American Literature through 1865	
EN 331	American Literature since 1865	

<i>World Literature</i>		
EN 360	World Literature through 1650	
EN 361	World Literature since 1650	
Subtotal		12

Group A - Literary Forms		
Select one of the following:		3

EN 337	Short Story	
EN 380	Modern Poetry	
EN 381	Drama	
EN 382	Modern Novel	

Group B - Literary Periods		
Select one of the following:		3

EN 370	Medieval Literature	
EN 371	Renaissance Literature	
EN 372	Restoration & 18th Century Literature	
EN 373	Romantic & Victorian Literature	
EN 374	Modern Literature	
EN 375	Contemporary Literature	
EN 376	Nineteenth Century American Literature	

Group C - Major Authors		
Select one of the following:		3

EN 345	Shakespeare	
Major Author course approved by the departmental chairperson		
Subtotal		9

Group D - Writing Elective		
Select one of the following:		3

EN 206	Beginning Poetry Writing	
EN 207	Beginning Nonfiction Writing	
EN 209	Beginning Fiction Writing	

Group E - Literature Elective		
Select one literature elective (300-level or above)		3
Subtotal		15
Total Hours		46

Group E - Literature Elective		
Select one literature elective (300-level or above)		3
Subtotal		15

Total Hours		46
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English, Minor

The Minor in English consists of 18 credit hours. Students must complete the following:

Code	Title	Hours
EN 105	Introduction to English Studies	3
15 additional EN hours (excluding EN 100, EN 101, EN 102, and EN 300) in these categories:		
	Writing (creative, professional, or rhetoric)	3
	Upper-division (300- or 400-level) literature	3
	Additional upper-division (300- or 400-level)	6
	Additional hours at any level	3
Total Hours		18

Geography

Department of History

Website: www.washburn.edu/history (<http://www.washburn.edu/history/>)

No major or minor is offered in Geography. The offerings are administered by the Department of History. Some Geography courses are part of the General Education curriculum and others are part of the Kansas Studies Program of Washburn University.

Course Offerings

GG 101 Introduction to Geography (3)

A study of the principal themes of geography: human and environment in interaction, the patterns of distribution of natural phenomena affecting human use of the earth, and the cultural patterns of occupancy and exploitation of the physical world. This course satisfies general education requirements.

(General Ed Social Science. Global Citizenship Ethics Div.)

GG 102 World Regional Geography (3)

World regional geography is a comparative study of physical and human environments of world realms and the interplay of forces which gives each realm its distinctive character. This course satisfies general education requirements.

(General Ed Social Science. Global Citizenship Ethics Div.)

GG 151 Urban Geography (3)

This course examines the geographic origins and development of urbanism, with special emphasis on physical attributes of site and spatial attributes of situation.

GG 201 Environmental Geography (3)

Also known as physical geography, this course introduces students to the distribution and components of the natural environment, including climate, biomes, soils, vegetation and landforms. The course also examines the interactions between these elements, and the effects of humans on the natural environment. Prerequisite: GG 101.

GG 220 Special Topics/Geography (3)

Topics will vary from semester to semester and will be announced in advance. Prerequisite: 3 hr GG or consent

GG 300 Special Topics/Geography (3)

Topics will vary from semester to semester and will be announced in advance. Prerequisite: 3 hr GG or consent

GG 302 Natural Resources Conservation (3)

A study of the principles of natural resource conservation and management, particularly as they relate to human populations, soil conservation and agriculture, water and air pollution and energy resources. Human activities that affect preservation, conservation, and multiple uses and options in a sustainable economy and society are emphasized. Prerequisite: GG 101.

GG 303 Introduction to Land Use (3)

Students are introduced to the conceptual basis of land use planning as it relates to the determinants, classification and survey, and environmental and fiscal impact analysis of the controlled use of land. The course also examines zoning and subdivision regulations in the approaches to land use planning at local, state and national levels. Prerequisite: GG 101.

GG 304 Geography of Kansas (3)

This course is a survey of the distributions and interrelationships of various physical, cultural and economic phenomena of the state. Topics include physiographic regions, settlement patterns, agricultural and urban geography. The High Plains, the Southeastern mining areas, and the urban Northeast regional cultures are examined. Prerequisite: Second semester sophomore status.

GG 325 Introduction to GIS (3)

As one of the most important areas in geography, Geographic Information System (GIS) is widely used in various disciplines for storing, sharing, displaying, analyzing and managing geographically referenced information. The objectives of this class are to provide a firm conceptual and technical understanding of how to present, synthesize, process and analyze geographic data. This class will have both a lecture and a lab session and the lab is taught using ArcGIS 10.5.1 (ESRI, Inc.). This class serves as a pre-requisite for the class of GG 326 Advanced GIS. No prerequisites.

Geology

Department of Physics and Astronomy

Website: www.washburn.edu/physics (<http://www.washburn.edu/physics/>)

No major or minor is offered in Geology. The offerings are administered by the Department of Physics and Astronomy.

Course Offerings

GL 101 Physical Geology (3)

Special emphasis on the observation of the phenomena of erosion, mountain formation, and stream and glacial action. Lecture-recitation and some field trips.

(General Ed Natural Science. Quan and Sci Reason Lit.)

GL 103 Historical Geology (3)

For students interested in the history and evolution of the planet Earth. Lecture and in-class laboratory work will include exercises with commonly found fossils and geologic-topographic maps. Will provide information about the environment of the early Earth and changes through time.

(General Ed Natural Science. Quan and Sci Reason Lit.)

Health

Department of Kinesiology

Website: www.washburn.edu/kinesiology (<http://www.washburn.edu/kinesiology/>)

Faculty

Professor Roy Wohl, PhD, Chair

No major or minor is offered in Health. The course offerings are administered by the Kinesiology Department.

Course Offerings

HL 277 Principles of Health Education and Promotion (3)

Designed to familiarize the student with the purpose, function, organization and administration of health education and promotion services. Some areas to be discussed are history and philosophy of health education, effective settings, behavior change theories, government initiatives, and ethics. Prerequisite: KN 248 or consent of instructor

HL 377 Critical Issues in Health (3)

This course will focus on controversies surrounding a wide range of current health science and personal health issues. When confronted by differing opinions and points of view, it is necessary to use critical thinking skills to comprehend, evaluate and make decisions in the face of uncertainty. Pros and cons of selected issues will be presented through readings, lectures, class discussions and both oral and written presentations. Prerequisite: KN 248 or consent of instructor.

HL 477 Health Program Planning and Evaluation (3)

This course is designed to study the fundamental concepts, models, theories and strategies pertaining to health education and promotion program planning and evaluation. Students will gain practical knowledge and will be expected to develop a comprehensive, theory-based strategy for delivery of a health promotion program, as well as provide for appropriate evaluation mechanisms throughout the program. Prerequisites: HL 277 and HL 377, or consent of instructor.

History

Department of History

Website: www.washburn.edu/history (<http://www.washburn.edu/history/>)

Faculty

Professor Thomas Prasch, PhD, Chair

Professor and Dean of University Libraries Alan Bearman, PhD

Professor Rachel Goossen, PhD

Professor Kim Morse, PhD

Associate Professor and Associate Dean College of Arts and Sciences

Kelly Erby, PhD

Professor and Director of University Honors Kerry Wynn, PhD

Assistant Professor Bruce Mactavish, PhD

Lecturer Anthony Silvestri, PhD

Mission

Consistent with the mission of the University and the College of Arts and Sciences, the Department of History exists to develop the learning skills of enrolled students and impart to them an informed awareness of

the past, to encourage the professional development of its faculty, and to contribute the professional expertise of its faculty in service to the academy and its constituency.

Description of the Discipline

Each scheduled history course has a common objective, namely that students enrolled are engaged in "doing history." Each course challenges students to imagine what happened in the past by examining records of human activity and interpreting them to produce a coherent explanation of times and peoples different from our own. Students in Washburn history courses are not passive recipients of information about the past, but active reconstructors of the past. They sharpen their skills in reading the record, critically thinking about what they find, and drawing conclusions.

Student Learning Outcomes

History majors at Washburn University, upon graduation, are expected to be able to:

- Recognize the broadest patterns of United States and World History.
- Demonstrate ability to master critical skills of the historical discipline.
- Apply the understanding of the broad patterns of history to an in-depth examination of significant historical issues for three cultural areas identified by the department (United States, Europe, Non-Western).
- Demonstrate mastery of the discipline's scholarship by: putting specific research focus in the context of larger historical patterns; identifying an appropriate research project, and with it both the primary and secondary sources needed to carry it through; reading and assessing both of these kinds of sources in terms of the focused research project; and, conceptualizing, organizing, and writing a scholarly paper presenting the result of this scholarship.

Programs

- History, BA (p. 147)
- Secondary Social Studies - Preparation for Teachers, BA (p. 147)
- History Secondary Education, BEd (p. 148)
- History, Minor (p. 149)

Course Offerings

HI 100 Survey of Early World History (3)

Stone-age origins to c. 1200 CE. Basic introductory survey of earliest eras of world cultures and history. Covers late pre-history; first and classical age civilizations of Mediterranean, Asia, and Americas; and emerging peripheral cultures and civilizations of Africa, Asia, Europe and Americas. **(General Ed Social Science. Global Citizenship Ethics Div.)**

HI 101 Changing World History: Traditions and Transitions (3)

Basic introductory survey of world developments, c. 1200-1750 CE. Begins with Mongol conquests. Continues with resurgence and change in established civilizations of Asia, Africa, Europe and Americas. Traces emergence and impact of modernizing West, early era of world explorations and empire building, and development of global trading networks.

(General Ed Social Science. Global Citizenship Ethics Div.)

HI 102 Modern World History (3)

Basic introductory survey of world developments, c. 1750 to present. Begins with industrialization and political change in the West, producing technologically-advanced Western economic, social and political world dominance. Traces power, processes of decolonization, emerging late 20th-century world economies, states and societies.

(General Ed Social Science. Global Citizenship Ethics Div.)

HI 105 Introduction to World Music and its History (3)

This course explores the history of world cultures by focusing specifically on the development of musical traditions from around the world.

Students explore the history and cultural development of selected world cultures, and listen to and analyze the musical traditions from those cultures to understand how a culture's music reflects both its traditions and its interaction with other cultures. Prerequisites: None.

(General Ed Social Science. Global Citizenship Ethics Div.)

HI 111 History of the United States through the Civil War (3)

Survey of American history from the first encounters between American Indians, Europeans, and Africans through the period immediately following the Civil War, which introduces students to the study of the past and familiarizes them with records of American experiences. It exposes students to political, economic, social and intellectual forces shaping the American heritage and contributing to the nation's development. No prerequisites.

(General Ed Social Science. Critical and Creative Thinking.)

HI 112 History of the United States since the Civil War (3)

Survey of American history from the emergence of an urban and industrial society after the Civil War to the present, which introduces students to the study of the past and familiarizes them with records of American experiences. Exposes students to political, economic, social and intellectual factors shaping the American heritage and contributing to the nation's development. No prerequisites.

(General Ed Social Science. Critical and Creative Thinking.)

HI 300 Topics in History (1-3)

Topics will vary from semester to semester and will be announced in advance. Prerequisite: 3 hrs HI or consent.

HI 303 Colonial America to 1763 (3)

Study of the age of exploration and the establishment of the original colonies. Emphasis will be given to the British colonies of the western hemisphere, but the course will also include those colonies of other nations as they affect American growth and development. It will include a broad treatment of social, political, economic and intellectual forces to 1763. Prerequisite: 3 hrs HI or consent.

HI 304 American Revolutionary Period, 1763-1789 (3)

An examination of the problems of Great Britain and the colonies following the French and Indian War. The causes of the American Revolution as well as the events resulting from it will be studied in detail. The critical period, the writing of the Constitution and the laying of the foundations of our government by the Federalists will be analyzed.

Prerequisite: 3 hrs HI or consent.

(General Ed Social Science. Critical and Creative Thinking.)

HI 305 Early National United States (3)

This class examines topics and themes in American society, politics, economics, and culture between roughly 1787 and 1850. In this period, deep changes unfolded throughout the young nation. As we will see, America in these years was marked both by more inclusive democracy and greater hierarchy; it became simultaneously more confident and defined as an independent nation, but also more fragmented according to the regional, economic, gender, racial, and ethnic distinctions among its peoples. In our assessment of early national U.S. history, we will pay special attention to the profound economic and cultural upheavals historians refer to as the market revolution as a way to view the period as a whole and to understand the transformations in human experience and national identity that took place during it. Prerequisites: 3 hours of History or permission of instructor.

HI 307 American Civil War: 1848-1877 (3)

A survey of the sectional crisis beginning with the conclusion of the Mexican War in 1848 to resolution of the crisis by 1877. Themes include: the nature of Northern and Southern societies; the political crisis of the 1850s; the relative military strengths of each side; the major battles and campaigns; the Northern and Southern home fronts, the role African-Americans played in their own liberation; the process by which reconstruction first emerged and then collapsed. Prerequisite: 3 hrs HI or consent.

HI 308 Making of Modern America, 1880-1920 (3)

The history of the United States from the end of Reconstruction to World War I. Examines social, political and economical changes. Topics covered include industrialization and its effects, popular culture, reform movements, and immigration. Prerequisite: 3 hrs History or consent.

(General Ed Social Science. Critical and Creative Thinking.)

HI 309 America in the 1920s & 30s (3)

History of the United States from the "Roaring Twenties" through the New Deal. Focuses on the dramatic shifts in American life in the interwar period. Topics of special interest include entertainment and leisure, youth culture, the Great Depression, and the expansion of the American state through New Deal programs. Prerequisite: 3 hrs History or consent.

HI 311 Cold-War America, 1945-1990 (3)

Examines the development of the US as it responds to the pressures of the Cold War, repercussions of the corporate economy, dynamics of changing race relations and the emergence of a New World Order in the 1980s. Prerequisites: 3 hrs. HI or consent.

HI 312 War's Impact on America (3)

A twentieth-century U.S. History course emphasizing social, economic, and cultural implications of American involvement in wars from the First World War through the Gulf War of 1991. The course addresses, from comparative perspective, mobilization and conscription issues, societal implications on the American home front, and civil liberties issues in wartime from the 1910s to the 1990s. Prerequisite: 3 hrs HI or consent.

HI 315 Women in US History (3)

American women's history from the nineteenth century to the present with an emphasis on their role in society, and how women's experiences have been affected by social, economic, and political changes.

Prerequisite: 3 hrs HI or consent.

HI 316 History of American Childhood (3)

This course surveys the wide range of historical literature on children and youth in American culture, and considers evolving notions of childhood from America's colonial period to the present. This is a seminar-style, discussion-oriented course, complemented with lectures, films and students' research presentations. Readings will include historical monographs, autobiographies, and primary sources. Grading criteria will be based on students' research and essay-writing, class participation, and a final exam. This course can be utilized toward fulfillment of an upper-division requirement for American history. Prerequisite: 3 hours of History or permission of instructor.

HI 317 Topeka & Urban American History (3)

Explores the development of Topeka within the context of urban growth in America. The first half focuses on individuals, groups, institutions, and ideas that define the nation's urban experience, while the second half weaves Topeka into the pattern. Prerequisite: 3 hrs HI or consent.

HI 319 American Indian History (3)

Examines the history of American Indian societies, concentrating mainly on the period from the 17th century to the present. Emphasizes topics related to sovereignty, intercultural relations, political and economic trends, and the diversity of American Indian cultures. Prerequisite: 3 hrs History or consent.

HI 320 American West (3)

Focuses on the development of the west as a region. It addresses innovative institutions and practices, the changing environment, and the diversity and interaction of cultures. Prerequisite: 3 hrs HI or consent.

HI 322 Kansas History (3)

Social, economic and political history from Spanish explorations to the present, including the role of the native-American, non-English ethnic groups, and women, and the part played by Kansas and Kansans on the national scene. Prerequisite: 3 hrs HI or consent.

HI 325 American Religious History (3)

This course serves as an introduction to religion in American history by focusing upon the impact of religion on American culture and of American culture on religion. It examines the major figures, themes, and theological positions in American religious history from approximately 1600 to the modern era. Prerequisite: 3 hrs HI or consent.

HI 326 Anabaptism: The Radical Reformation and Beyond (3)

This course focuses on the major events, persons, literature, and practices of Anabaptist-related groups from the 16th-century Reformation to the present. History department faculty and guest speakers will trace the evolution of this religious movement from its multi-faceted European origins to diverse contemporary practices of Mennonites, Amish, Hutterites, and other Anabaptists on five continents. Course components include research projects on religious identity formation, storytelling about Anabaptists' lives and essays on novels and other literature drawn from Anabaptist experience. Students taking the course HI-526 for graduate credit will choose an appropriate topic for a research paper utilizing primary and secondary sources, in consultation with the professor. Prerequisites: 3 hours of History or permission of instructor.

(General Ed Social Science. Critical and Creative Thinking.)

HI 328 African-American History (3)

The black experience in America from African origins to the present. Themes to be emphasized include: the process of enslavement, the emergence of African-American culture, the nature of slavery, the struggle for freedom, the migration to the North, the Civil Rights movement, and contemporary issues. Prerequisite: 3 hrs HI or consent.

HI 329 Civil Rights Movement (3)

Examines the way black and white Americans have redefined race relations between the mid-1950's and mid-1980's. Class discussion comprises a significant portion of the course. Prerequisite: 3 hrs HI or consent.

HI 330 Ancient/Medieval Europe to 1400 (3)

The development of Greek civilization through the Hellenistic period, the phases of Roman civilization, and the forms of civilization in Europe in the wake of the Roman collapse (including feudal and manorial structures, the spread of Christianity, and the first stages of the emergence of nation states). Prerequisite: 3 hrs HI or consent.

HI 331 Early Modern Europe, 1300-1750 (3)

Covering the Italian Renaissance and its diffusion to the north, the Reformation as social and political as well as a religious movement, the conditions that fueled the European Age of Exploration, the consolidation of nationstates, and the formation of a trans-Atlantic trade network grounded on slavery. Prerequisite: 3 hrs HI or consent.

HI 332 Modern Europe, 1750-Present (3)

Begins with Industrialization and its effects and continues to the French Revolution and its broader impact, the development of democratic institutions in the context of industrial consolidation in the 19th century through the total wars of the 20th century, the Soviet Revolution, trends toward broader democratization and welfare statism, the collapse of communism in the East, and current movements toward European union. Prerequisite: 3 hrs. HI or consent.

HI 334 Civilization of Ancient Rome (3)

This survey course covers the history of ancient Roman civilization from its origins to Late Antiquity. The course is divided into three major sections. The first section, FOUNDATIONS, covers the early development of Italy, the establishment and development of the Roman Republic, and key Roman cultural institutions, especially the Roman state religion. The second section, TRANSFORMATION examines the slow disintegration of the institutions of the Republic, and its eventual collapse under the weight of the political ambition of senators such as Marius, Sulla, Pompey and Julius and Augustus Caesar. The third section, IMPERIUM, covers the history of the empire from Augustus to its collapse in the West in 476 and beyond, with special attention to the development of new religions to challenge the older order, namely Christianity and the other Mystery Cults. Throughout the semester we will be exploring sub-themes, such as the legitimacy and usefulness of drawing parallels between the histories of Rome and the United States, and the ever-changing perception of Rome in the modern popular imagination as evidenced in film. Also part of the course will be an extended simulation of the Roman Senate in the aftermath of the assassination of Julius Caesar, with students representing senators faced with the conflict between the achievement of personal ambition and the good of the state in troubled times. Prerequisite: 3 hours of History or permission of the instructor. (General Ed Social Science. Global Citizenship Ethics Div.)

HI 336 History of England (3)

Origins and historical development of England in its political, economic and social aspects from the earliest times to the present. Prerequisite: 3 hrs HI or consent.

HI 338 Victorian Britain, c. 1830-WWI (3)

Intensive study of British history and life during the Victorian era, 1837-1901. Emphases will include the impact of industrialization, the continued evolution of parliamentary rule, changing women's and family roles, Victorian culture and the expansion of Empire. Prerequisite: 3 hrs HI or consent.

(General Ed Social Science. Global Citizenship Ethics Div.)

HI 339 History of France (3)

Study of the development of French history and culture from the earliest times to the present. Prerequisite: 3 hrs HI or consent.

HI 340 French Revolution & Napoleon (3)

A study of the decade of revolution, 1789-1799, and of the Napoleonic regime. Constitutional, political, societal, economic, and cultural issues will be considered. Prerequisite: 3 hrs HI or consent.

HI 342 History of Germany (3)

Study of the development of German history and culture from the earliest times to the present. Prerequisite: 3 hrs HI or consent.

HI 343 The European Reformation (3)

A survey of the history and theology of the Magisterial, Radical, and Roman Catholic Reformation movements of the early sixteenth century, with particular emphasis on the religious ideas and practices of leading reformers such as Luther, Zwingli, Calvin, and Ignatius Loyola. Reformation ideas will be examined within the context of the experiences of these principal figures and of the public they addressed and by whom they were interpreted. The reformation will be considered in relation to the cultural, social, economic, and political changes of the early modern period. Prerequisite: 3 hrs HI or consent.

HI 344 The Holocaust: A Seminar (3)

In consultation with the instructor, students will select a topic related to the Holocaust, research it, make a class report, be critiqued by their peers and the instructor, and prepare a research paper. Prerequisite: 3 hrs HI or consent.

HI 354 History of Middle East (3)

Origins, historical development and interaction of the major events, ideas, figures, and patterns shaping the history of the Middle East from the rise of Islam to the present. Prerequisite: 3 hrs HI or consent.

HI 357 History of Traditional China (3)

Origins, historical development and interplay of major forces, events and characteristics of Chinese Civilization from pre-history to c. 1800. Prerequisite: 3 hrs HI or consent.

HI 358 History of Modern China (3)

Origins, historical development and interplay of major forces, events and characteristics of Chinese Civilization from c. 1800 to the present. Prerequisite: 3 hrs HI or consent.

HI 360 History of Mexico (3)

Origins of Mexican Civilization in the blending of the Indian and Spanish races and civilizations and the historical development of that civilization to the present. The interaction of physical, economic, political and social forces in the shaping of that civilization is emphasized. Prerequisite: 3 hrs HI or consent.

HI 361 Colonial Latin America (3)

The course surveys Latin American history from the pre-Columbian era to 1820. Through the exploration of the fundamental events of colonial Latin American history using primary sources, the course identifies and analyzes key political, social, economic, and religious institutions of the colonial experience in Latin America, evaluates the role of state and religion in society, examines intersections of race, class, and gender, and assesses the causes of and wars of independence. Prerequisite: 3 hrs HI or consent.

HI 362 History of Latin America (3)

Latin American history from 1820 to the present. The course will focus on the interaction of social, cultural, economic, political, and international factors in the creation of the reality lived by Latin Americans from all socioeconomic backgrounds from the nineteenth century to the present. Prerequisite: 3 hrs HI or consent.

HI 363 Borderlands and Beyond (3)

The course explores Latino history in the United States within the broader U.S., Latin American, and global economic perspective. Beginning during the Spanish colonial period and including the major formative events in U.S./Mexican/and Latin American history, (Mexican Independence, Texas Independence, Mexican-American War, Mexican Revolution, Spanish-American-Cuban War, etc.), the course asks students to think about the multiple meanings of borders, past and present, as well as the changing role of migration and immigration within that historical context. Prerequisite: 3 hrs HI or consent.

(General Ed Social Science. Global Citizenship Ethics Div.)

HI 364 History/Literature of Latin America (3)

This course focuses on the relationship between history and literature in modern Latin America. Through the study of novels, poetry, film, and other genres the course examines how authors use literature to interpret the meaning of history and society as well as moments in which literature became part of the historical process. Prerequisite: HI 100, HI 101, or HI 102, or consent.

HI 370 Modern Africa, c. 1700-Present (3)

Covers the basic developments in sub-Saharan African history since 1700. Begins with the intensification of slave trading, widening trade networks within Africa and linking Africa to the Atlantic world, and continues with the New Imperialist conquest of Africa and its consequences from the 19th century on. Closes with the rise of nationalist movements, decolonization and formation of independent states in Africa. Prerequisite: 3 hrs HI or consent.

HI 380 Women in World History (3)

Surveys major figures, philosophies, patterns and events shaping women's changing roles and status within human society, origins of civilization to current industrial society. Traditional civilizations covered include Classical Mediterranean World, Confucian Asia, and Islam; significant emphasis will also be placed on understanding the impact of industrialization and modern political revolution both within the west and in the developing world. Prerequisite: 3 hrs HI or consent.

HI 381 History & Psychology of Sex & Gender (3)

Team taught by an historian and a psychologist. Surveys historic and current experience of being male and female within changing western society. Examines past roles and ideas about distinctions between sexes and surveys current psychological research in the area. See Psychology for cross-listing. Prerequisite: 3 hrs Social Science or consent.

HI 383 Film and History (3)

In this course, students will survey and evaluate films about historical subjects, seeking to understand the role film plays in shaping popular attitudes towards history and trying to assess the sort of history that film versions of the past promulgate. The main business of the class will be watching films and then discussing them, primarily through E-mail exchanges and debates, a required component of the course. In addition, students will do two book reports and a research paper. Prerequisite: 3 hrs HI or consent.

HI 395 History Forum (3)

A seminar on the nature of history and its application. Prerequisites: any three 100 level HI courses.

HI 397 Internship in Historical Agencies (3)

A program for junior/senior level undergraduates principally offered in cooperation with the Kansas State Historical Society and the Brown v. Board of Education National Historic Site on a limited basis, in Museum Display, History Education, Archives and Manuscripts. Prerequisites: HI 111, HI 112, 6 hours upper division HI, consent.

HI 398 Directed Readings (1-6)

Directed readings in selected fields of history. Regular conferences. May be taken until six credit hours are earned. Prerequisite: Senior history major or approval of the department chair.

HI 399 Historical Methods & Research (3)

Research and bibliographical techniques and practice in the application of these techniques in selected research. A capstone course required of history majors. Prerequisites: HI 111, HI 112, HI 395 and two of The World History courses.

History, BA

Degree Requirements

Students majoring in history must have a minimum of 33 hours in history with a grade of C or above, at least 15 hours taken at Washburn. Students must take:

Code	Title	Hours
Required Courses		
HI 100	Survey of Early World History	3
HI 101	Changing World History: Traditions and Transitions	3
HI 102	Modern World History	3
HI 111	History of the United States through the Civil War	3
HI 112	History of the United States since the Civil War	3

Select 12 credit hours with at least one course in each cultural tradition: 12

American		
HI 303	Colonial America to 1763	
HI 304	American Revolutionary Period, 1763-1789	
HI 305	Early National United States	
HI 307	American Civil War: 1848-1877	
HI 308	Making of Modern America, 1880-1920	
HI 309	America in the 1920s & 30s	
HI 311	Cold-War America, 1945-1990	
HI 312	War's Impact on America	
HI 315	Women in US History	
HI 316	History of American Childhood	
HI 317	Topeka & Urban American History	
HI 319	American Indian History	
HI 320	American West	
HI 322	Kansas History	
HI 325	American Religious History	
HI 326	Anabaptism: The Radical Reformation and Beyond	
HI 328	African-American History	
HI 329	Civil Rights Movement	
European		
HI 330	Ancient/Medieval Europe to 1400	
HI 331	Early Modern Europe, 1300-1750	
HI 332	Modern Europe, 1750-Present	
HI 334	Civilization of Ancient Rome	
HI 336	History of England	

HI 338	Victorian Britain, c. 1830-WWI	
HI 339	History of France	
HI 340	French Revolution & Napoleon	
HI 342	History of Germany	
HI 343	The European Reformation	
HI 344	The Holocaust: A Seminar	
HI 380	Women in World History	
HI 381	History & Psychology of Sex & Gender	
HI 383	Film and History	
Non-Western		
HI 354	History of Middle East	
HI 357	History of Traditional China	
HI 358	History of Modern China	
HI 360	History of Mexico	
HI 361	Colonial Latin America	
HI 362	History of Latin America	
HI 363	Borderlands and Beyond	
HI 364	History/Literature of Latin America	
HI 370	Modern Africa, c. 1700-Present	
HI 395	History Forum ¹	3
HI 399	Historical Methods & Research ¹	3
Total Hours		33

¹ a grade of C or above is required

Majors must also demonstrate additional competence in one of two ways: a second major or an established minor.

In declaring a major in history, students will be assigned an advisor and develop a departmentally-approved plan for graduation. The department recognizes a maximum of 3 hours history credit through CEEB Advanced Placement.

Departmental honors are offered to those majors attaining a 3.5 in History, a 3.2 GPA overall, and an A in the capstone HI 399 Historical Methods & Research course.

Secondary Social Studies - Preparation for Teachers, BA

Students desiring to be certified in secondary social studies at Washburn must major in history and follow one of the following curriculum outlines:

(Also please note: all teaching licenses in the state of Kansas have been revised. Students planning to pursue a teaching license should consult with an advisor prior to enrolling in courses.)

Curriculum Outline for the US History, US Government, and World History Program

Fifty-four (54) semester hours are required.

Code	Title	Hours
Core Courses		
HI 111	History of the United States through the Civil War	3
HI 112	History of the United States since the Civil War	3

HI 100	Survey of Early World History	3
HI 101	Changing World History: Traditions and Transitions	3
HI 102	Modern World History	3
HI 395	History Forum	3
PO 106	The Government of the United States	3
PO 107	Kansas and the U.S., State and Local Government	3
HI 399	Historical Methods & Research	3
Upper division U.S. History		6
Upper division European History		3
Upper division non-Western History		3
Subtotal		39
Required Additional Courses in Social Science		
Selected upper division Political Science		6
EC 200	Principles of Microeconomics	3
AN 112	Cultural Anthropology	3
GG 102	World Regional Geography	3
Subtotal		15
Total Hours		54

Students seeking certification to teach must also be formally admitted to the University's Professional Teacher Education Programs and adhere to the Education Department's requirements for teacher certification. For admission requirements, see **Education** in this catalog.

History Secondary Education, BEd

Pending Washburn University Board of Regents approval

Description

The B.Ed. in History Secondary Education provides students an option to complete degree requirements within 120 credit hours while continuing to earn the same core curriculum as all other Education majors, acquire adequate content knowledge, and satisfy Kansas State Department of Education (KSDE) 6-12 History, Government, and Social Studies standards.

Degree Requirements

University Requirements

Code	Title	Hours
WU 101	The Washburn Experience	3
EN 101	First Year Writing	3
MA 112	Contemporary College Mathematics (or higher)	3
EN 300	Advanced College Writing	3
Total Hours		12

Note: The B.Ed. will not include a Foreign Language requirement.

General Education Requirements

Code	Title	Hours
Humanities (GEHU): ¹		9
Social Sciences (GESS): ²		9
AN 112	Cultural Anthropology	

GG 102	World Regional Geography	
PO 106	The Government of the United States	
Natural Sciences (GENS):		9
Total Hours		27

¹ at least 3 credits must be AR, MU, or TH

² these courses fulfill requirements for History, Government, and Social Studies licensure as well

History Content Requirements

Code	Title	Hours
HI 100	Survey of Early World History	3
HI 101	Changing World History: Traditions and Transitions	3
HI 102	Modern World History	3
HI 111	History of the United States through the Civil War	3
HI 112	History of the United States since the Civil War	3
HI 322	Kansas History	3
Upper-Division US History		3
Upper-Division European History		3
Upper-Division Non-Western History		3
HI 395	History Forum	3
HI 399	Historical Methods & Research	3
Total Hours		33

Social Studies Additional Core Requirements

Code	Title	Hours
EC 200	Principles of Microeconomics	3
PO 107	Kansas and the U.S., State and Local Government	3
PO 225	Introduction to International Politics	3
Total Hours		9

Education Courses

Code	Title	Hours
ED 155	Teaching, Learning, Leadership	3
ED 285	Educational Psychology	3
ED 165	Ed. 1, Examining Teaching as a Profession: Diversity 1, Literacy 1, Technology 1	3
ED 275	Ed. 2 Exploring Teaching as a Profession (Classroom Management 1, Diversity 2, Technology 2) Ed. 2	3
ED 295	Ed. 3 Experiencing Teaching as a Profession (Classroom Management 2, Diversity 3, Literacy 2)	3
ED 395	Ed. 4 Extending Teaching as a Profession (Classroom Management 3, Literacy 3, Technology 3)	3
ED 354	Curriculum and Assessment	3
ED 302	Teaching Exceptional Learners	3
ED 366	Methods of Teaching Social Studies in Secondary School	3

ED 410	Secondary Student Teaching	12
Total Hours		39

Note: the B.Ed. in History Secondary Education includes no minor.

History, Minor

Students may minor in history by applying to the department and being assigned an advisor, who will arrange a course sequence in conformity to department requirements. A minor will consist of at least 15 credit hours and include a balance between introductory survey courses and upper level work. Minors may be multicultural, may concentrate in one of the principal historical traditions, or may be organized around a central theme. All course work is to be graded, and all grades counting toward the minor must be C or better.

Humanities and Creative and Performing Arts

The Associate of Arts degree in the Humanities and Creative and Performing Arts is intended to give students a broad background in a particular area of liberal studies. Students are required to take coursework in at least three disciplines within the Humanities and Creative and Performing Arts and to select a concentration in one discipline. The credits earned in this associate degree are all applicable toward a bachelor's degree. For information and advising on this degree, please contact the College of Arts and Sciences in Morgan Hall 209.

Student Learning Outcomes

Washburn University students completing this degree, upon graduation, are expected to have:

- Acquired an introductory knowledge of the disciplines comprising the humanities.
- Acquired a foundation for continuing academic study.

Programs

- Humanities and Creative and Performing Arts, AA (p. 149)

Humanities and Creative and Performing Arts, AA

Degree Requirements

For the Associate of Arts in Humanities and Creative and Performing Arts, a student must complete 60 semester hours with a minimum grade point average of 2.0. Twenty-four credit hours must be completed at Washburn University; of these, 12 of the last 24 must be Washburn University credits. Forty-two hours must be graded. A student may not take the pass/fail option in the area of concentration without obtaining and filing with the Registrar's office written permission from the chairperson of the department offering the course.

Specific course requirements are as follows:

Code	Title	Hours
EN 101	First Year Writing (or its equivalent)	3
Select one of the following: ¹		
MA 112	Contemporary College Mathematics	
MA 116	College Algebra	

Courses from at least two subject areas in Humanities and Creative Performing Arts	6
Courses from at least two subject areas in Natural Sciences and Mathematics	6
Courses from at least two subject areas in Social Sciences	6

¹ With a grade of C or better

Areas of Concentration

(24 semester hours of Humanities and Creative and Performing Arts coursework does not include six hours of Humanities and Creative and Performing Arts general education.)

- The 24 hours of course work will include at least six hours each from a minimum of three subject areas within the Humanities and Creative and Performing Arts.
- At least 12 hours will be from one subject area. These courses will be selected from a list developed by the faculty in that subject area and may include six hours of upper-division credit. The department from which the student takes the 12-hour concentration will be the effective administrative home of the student.
- A minimum of a C grade is required in all courses within the area of concentration, including the six hours of general education in the Humanities and Creative and Performing Arts.
- At least 12 of the hours remaining for the degree will be chosen from outside the area of concentration.

Integrated Studies

College of Arts and Sciences

Professor Tracy Routsong, PhD, Director

Mission

The Integrated Studies program aims to foster cross-disciplinary connections in preparation for the complexity of a global society.

The Bachelor of Integrated Studies allows students the opportunity to blend resources in a sound and creative manner. Consistent with the mission of the University and the College of Arts and Sciences, students are able to individualize their academic experiences. This degree can provide a broad, general studies focus, or a more concentrated development of an emphasis delivered in a variety of platforms including online, face-to-face, and weekend options. This degree may be completed fully online.

The requirements of the BIS degree are based on the assumption that a multi-disciplinary approach is suitable for the depth of experience of an undergraduate student's degree. In particular, those students who desire exposure of various disciplines relevant to their personal interests, goals, aspirations, or career path will benefit from this degree. This program allows for more flexible and creative options toward reaching students' degree goals. Multi-disciplinary plans of study within the Bachelor of Integrated Studies may be created in one of two ways:

- Unique, customized plan created by a student with the assistance of the director of the program.
- Standard multi-disciplinary plan.

Student Learning Outcomes

Students who complete the Bachelor of Integrated Studies should be able to:

- Demonstrate the ability to engage in objective, multidisciplinary perspective taking. Outcome: Develop an ISP that includes two or more disciplines.
- Integrate knowledge and modes of thinking drawn from two or more disciplines Outcome: Articulate how course materials integrate into a cohesive program in a reflection paper.
- Integrate interdisciplinary understanding of a complex problem or intellectual question Outcome: Design and complete an interdisciplinary project.

Descriptions of Plans

Individualized Study Plan: To meet the depth of experience component within traditional degree requirements, the student designs and submits for approval an Individualized Study Program (ISP). This ISP is formulated by selecting courses consistent with a specific focus, theme, or unifying conceptual principle with the approval of the BIS Director. All ISPs will have a minimum of 30 credit hours.

Multi-Disciplinary Study Plan: As the world becomes more complex, the needs for interdisciplinary educational experiences increases. To respond to this trend, groups of departments may design a Multi-disciplinary Study Program (MDSP) for approval by the Integrated Studies Advisory Committee (ISAC) and the BIS Director. Students who choose to pursue these "pre-approved" plans of study must complete the course-work identified by the participating departments or work with the BIS Director to find appropriate substitutions. All MDSPs will have a minimum of 30 credit hours but may have more depending on the individualized plan.

Two Areas of Emphasis

12 - 18 hours completed in each of two departments or disciplines, one of which must be within CAS.

Three Areas of Emphasis

12 - 18 hours will be completed in each of three departments or disciplines, two of which must be within CAS.

All programs require the completion of:

IS 389 Capstone Project Development (1 credit hour) plus IS 390 Capstone Project (2 credit hours)

Upper division courses may require prerequisites or consent of instructor. Programs must be formulated in consultation with the BIS Director. If considering a customized plan, use the standard pre-approved programs as models.

Pre-Approved Multi-Departmental Study Programs

The following pre-approved multi-departmental study programs (MDSPs) are currently available:

- Web Technology Utilization Emphasis, BIS (p. 150)
- Administrative Communication, BIS (p. 151)
- Liberal Arts Program Emphasis, BIS (p. 151)

Course Offerings

IS 389 Integrated Studies Capstone Proposal (1)

This course is the prerequisite course to the IS 390 Capstone Project course and must be taken the semester immediately preceding IS 390 or special permission by the BIS Director. This course is designed to assist the student in developing an appropriate capstone project. Prerequisite: At least thirty completed hours from either the Individualized Study Plan (ISP) or the Multi-Disciplinary Study Plan (MDSP) or special permission by the BIS Director.

IS 390 Integrated Studies Capstone (1-7)

The thoughtful integration of diverse materials is a major demand on the student working toward a Bachelor of Integrated Studies. The format may vary in terms of the student's special interests, abilities, imagination, and creativity. May consist of a research paper, a comprehensive written examination on selected reading materials, an oral presentation, or a special performance utilizing one or more art forms or modes of expression. Prerequisite: IS 389 or by consent of the BIS Director.

Web Technology Utilization Emphasis, BIS

Degree Requirements

Students must complete the following plan of study. 33 hours of required courses:

Code	Title	Hours
Required Courses		
AR 223	Graphic Design I	3
AR 321	Photoshop Imaging	3
CM 101	Computer Concepts and Applications	3
CM 111	Introduction to Structured Programming	4
CM 113	Visual Programming	3
CM 130	Web Development I	3
CM 330	Web Development II	3
MM 202	Professional Media Writing"	3
MM 321	Advanced Professional Media Applications	3
MM 372	Film Production	3
IS 389	Integrated Studies Capstone Proposal	1
IS 390	Integrated Studies Capstone	1-7
Subtotal		33-39

Approved AR/CM/MM Electives

Select 21 credit hours of the following (at least 18 must be upper division):	21
AR 120	2D Design: Digital Elements
AR 322	Graphic Design II
AR 325	Photoshop Imaging II
AR 326	2 & 3-D Digital Animation
AR 403	Workshop in Art Media
AR 429	Web Design
CM 203	Digital Forensics I
CM 231	Computer Organization/Assembler Language
CM 245	Contemporary Programming Methods
CM 261	Networked Systems I

CM 307	Data Structures & Algorithmic Analysis	
CM 322	Operating System & Networking Concepts	
CM 361	Networked Systems II	
MM 100	Introduction to Mass Media	
MM 319	Public Relations I	
MM 352	Advertising and PR Strategies	
MM 422	Editing	
Subtotal		21

Required Correlated Courses		
MA 140	Statistics	3
BU 250	Management Information Systems	3
EN 208	Professional Writing	3
CN 150	Public Speaking	3
CN 340	Interviewing	3
or CN 341	Persuasive Speaking	
Subtotal		15
Total Hours		69-75

Students interested in obtaining more information about the Bachelor of Integrated Studies should contact the College of Arts and Sciences Dean's office or the Director of the Program.

- Grade of "C" or better required for designated courses in the ISP/ MDSP.
- ISP/MDSP consists of at least 30 graded hours, including 12 hours 300-400 level courses and a capstone project (IS 389 Integrated Studies Capstone Proposal and IS 390 Integrated Studies Capstone or substitute approved by ISAC).
- Courses applied to the General Education distribution requirements may not also be utilized to meet ISP/ MDSP requirements.
- All requirements for the Bachelor of Arts degree must be met with the following exceptions: no major requirements; no foreign language requirement.

Administrative Communication, BIS Degree Requirements

Students must complete the following plan of study. 36 hours of required courses:

Code	Title	Hours
Required:		
CN 308	Organizational Communication	3
CN 330	Communication in Conflict and Negotiation	3
CN 350	Persuasion	3
Subtotal		9
Select 12 Credits of Psychology Core		12
Select 12 Credits from Business/Political Science/Sociology Core		12
IS 389	Integrated Studies Capstone Proposal	1
IS 390	Integrated Studies Capstone	2
Total Hours		36

Students interested in obtaining more information about the Bachelor of Integrated Studies should contact the College of Arts and Sciences Dean's office or the Director of the Program.

- Grade of "C" or better required for designated courses in the ISP/ MDSP.
- ISP/MDSP consists of at least 30 graded hours, including 12 hours 300-400 level courses and a capstone project (IS 389 Integrated Studies Capstone Proposal and IS 390 Integrated Studies Capstone or substitute approved by ISAC).
- Courses applied to the General Education distribution requirements may not also be utilized to meet ISP/ MDSP requirements.
- All requirements for the Bachelor of Arts degree must be met with the following exceptions: no major requirements; no foreign language requirement.

Liberal Arts Program Emphasis, BIS Degree Requirements

Students must complete the following core coursework by selecting two to three areas of emphasis (minimum of 30 hours total):

Code	Title	Hours
Two Areas of Emphasis		
Upper division College of Arts and Sciences coursework ¹		12-18
Upper division Approved Coursework in Second Area ²		12-18
IS 389	Integrated Studies Capstone Proposal	1
IS 390	Integrated Studies Capstone	2
Total Hours		27-39

- ¹ From approved programs
- ² Second Area may be outside CAS, but must be approved

Code	Title	Hours
Three Areas of Emphasis		
Upper division College of Arts and Sciences coursework ¹		12-18
Upper division College of Arts and Sciences coursework ¹		12-18
Upper division Approved Coursework in Third Area ²		12-18
IS 389	Integrated Studies Capstone Proposal	1
IS 390	Integrated Studies Capstone	2
Total Hours		39-57

- ¹ From approved programs
- ² Third area may be outside CAS, but must be approved

Upper division courses may require prerequisites or consent of instructor. Programs must be formulated in consultation with the BIS Director.

Students interested in obtaining more information about the Bachelor of Integrated Studies should contact the College of Arts and Sciences Dean's office.

- Grade of "C" or better required for designated courses in the ISP/ MDSP.
- ISP/MDSP consists of at least 30 graded hours, including 12 hours 300-400 level courses and a capstone project (IS 389 and IS 390 or substitute approved by the BIS Director).

- The first 30 hours of the ISP/MDSP may not be applied to the 84 hour “non-major” requirement.
- Courses applied to the General Education distribution requirements may not also be utilized to meet ISP/ MDSP requirements.
- All requirements for the Bachelor of Arts degree must be met with the following exceptions: no major requirements; no foreign language requirement.

Kinesiology

Department of Kinesiology

Website: www.washburn.edu/kinesiology (<http://www.washburn.edu/kinesiology/>)

Faculty

Professor Roy Wohl, PhD, Chair
 Professor Park Lockwood, PhD
 Assistant Professor Tiffany Dirks, EdD
 Assistant Professor Ross Friesen, EdD
 Senior Lecturer John Burns, MS
 Lecturer Karen Garrison, MA
 Lecturer Loree Weir, PhD

Mission

The Mission of the Kinesiology Department is to engage students in an impassioned search for intellectual growth and personal fulfillment through study in one or more of the disciplines encompassed by the domains of health and human movement, and prepare them for a career in Kinesiology or further study in related graduate and/or professional degree programs. The Department promotes the acquisition and application of knowledge and skills, fosters critical thinking, participates in research, and supports students and faculty in discipline-related service to the University, the profession, and the global community.

Vision

The Kinesiology Department, through continuing excellence in teaching, research, and service, will be recognized for producing quality graduates who possess the theoretical knowledge, applied skills and advanced competencies necessary to become leaders in the health and human movement related professions.

Graduates of Kinesiology Department degree programs are expected to have:

- been involved in a comprehensive professional preparation program that meets or exceeds state and/or national standards.
- participated in a wide variety of opportunities to gain experiences and knowledge through instruction in a variety of health and fitness activities and related topics.
- been empowered to take charge of their learning through quality academic guidance in order to prepare for future career and/or professional goals.
- developed an appreciation of leadership, research and/or educational service through participation and volunteerism.

Student Learning Outcomes

- Demonstrate an understanding of the fundamental knowledge (i.e., scientific, historical, philosophical) in the principal areas of study in Kinesiology.

- Summarize the relationship between physical activity participation and health, wellness, and quality of life.
- Determine an individual’s health and fitness status through demonstrated proficiency in skills/competencies needed to successfully perform standard health and fitness assessments.
- Demonstrate proficiency in computer technology skills and use of applications that can be applied in exercise, fitness and sport settings.
- Critically evaluate research about physical activity and the movement-related professions.

Description of Discipline

Kinesiology is an academic discipline concerned with the study of physical activity and human movement and their impact on health, society and quality of life. It includes, but is not limited to, such area of study as health promotion, fitness, sport management, injury prevention and care, biomechanics, socio-cultural analyses of sports, physical education teacher education, exercise and sport psychology, and exercise science. In addition, Kinesiology provides an excellent academic foundation for the student wishing to pursue a graduate and/or professional degree in a wide range of allied health-related professions such as athletic training, clinical exercise physiology, physical therapy, occupational therapy, and cardiac rehabilitation.

Programs

- Kinesiology in Exercise and Rehabilitation Science, BS (p. 156)
- Kinesiology in Health and Fitness Promotion, BA (p. 156)
- Kinesiology in Sport Management, BA (p. 157)
- P-12 Physical Education Teaching, BEd (p. 158)
- Kinesiology in Coaching, Minor (p. 158)
- Kinesiology in Fitness, Minor (p. 159)

Course Offerings

KN 100 Rhythmic Fitness (1)
Rhythmic Fitness

KN 101 Body Toning (1)
Body toning.

KN 102 Archery (1)
Archery

KN 103 Badminton (1)
Badminton

KN 104 Step Aerobics (1)
Step Aerobics

KN 107 Basketball (1)
Basketball

KN 109 Bowling (1)
Bowling

KN 111 Canoeing (1)
Canoeing

KN 112 Cycling (1)
Cycling

KN 113 Fencing (1)
Fencing

KN 117 Golf I (1)
Golf

KN 123 Judo (1)

Judo

KN 124 Karate (1)

Karate

KN 125 Lifeguard Training (1)

Lifeguard Training

KN 129 Racquetball (1)

Racquetball

KN 132 Softball (1)

Softball

KN 133 Swimming I (1)

Swimming I

KN 134 Swimming II (1)

Swimming II

KN 137 Tennis (1)

Tennis

KN 139 Tai Chi (1)

Tai Chi

KN 140 Pilates (1)

Pilates

KN 141 Yoga (1)

Yoga

KN 142 Zumba (1)

Zumba

KN 143 Soccer (1)

Soccer

KN 144 Volleyball (1)

Volleyball

KN 146 Weight Training (1)

Weight Training

KN 152 Kardio Kickbox (1)

Kardio Kickbox.

KN 157 Country & Western Dance (1)

Country and Western Dance

KN 162 Beginning Skin & Scuba Diving (1)

Beginning Skin and Scuba Diving

KN 165 Self-Defense (1)

Self-Defense

KN 169 Social Dance (1)

Social Dance

KN 170 Aqua Exercise (1)

Aqua Exercise

KN 171 Deep Water Walking (1)

Deep Water Walking

KN 173 Water Safety Instructor (1)

Water Safety Instructor

KN 176 Tae Kwon Do (1)

Tae Kwon Do

KN 190 Special Topics (1)

Special Topics

KN 192 Marathon Training I (1)

Marathon Training I

KN 193 Marathon Training II (1)

Marathon Training II

KN 240 Coaching Principles and Philosophy (2)

This course is required for the Minor in Coaching. It is designed to provide students with a basic understanding of coaching principles and help students develop a sound coaching philosophy. Students will examine their roles as coaches, improve communication and management skills, develop technical coaching skills, and learn proper team training and management strategies. This course will provide content necessary for students to complete the American Sport Education Program's (ASEP) certification exam. Prerequisite: Sophomore status.

KN 248 Wellness Concepts and Applications (3)

The purpose of this course is to introduce and explore the essential concepts of wellness and to gain an understanding of the processes that contribute to developing and maintaining a healthy lifestyle. The wellness approach will emphasize personal responsibility for one's health through critical examination and evaluation of the consequences of lifestyle choices, the selection and development of behavior change skills that promote optimal enhancement of all wellness dimensions, and the creation of a personal wellness plan for a productive and satisfying life. Prerequisite: None.

(General Ed Social Science. Critical and Creative Thinking.)

KN 250 Introduction to Kinesiology (2)

This course examines the process of human movement as a unifying element in the study of the discipline of Kinesiology. Content areas include the scientific foundations of human movement, the history and philosophy of physical education, the role of physical education in the educational process, general purposes of Kinesiology programs, career orientation and the future of Kinesiology.

KN 253 Fundamentals of Football Coaching (2)

Fundamentals and coaching techniques involved in coaching football. Rules, practice and game day organization, offensive and defensive techniques and strategies, and administrative requirements will be covered. Designed for those who intend to coach football.

KN 257 Prevention and Care of Athletic Injuries (3)

This course will instruct and evaluate contemporary methods of conditioning, prevention, recognition and acute care of athletic injuries. This course will also focus on risk assessment and management relating to physical activity. The course is appropriate for Kinesiology majors, pre-healthcare majors, and students interested in coaching. An additional fee is associated with this course.

KN 266 Microcomputer Applications to Kinesiology (2)

This course examines computer technology applications and software related to Kinesiology and Physical Education. Prerequisite: Kinesiology or Physical Education Major, KN 248 and KN 250; or 54 credit hours and consent of instructor.

KN 271 First Aid and CPR (2)

General emergency first aid including sudden illness, musculoskeletal injuries, heat/cold emergencies, splinting, bandaging and CPR. Opportunity is provided to earn both American Red Cross Responding to Emergencies First Aid and CPR certifications. An additional fee is associated with this course.

KN 280 Sports Officiating I (2)

Study and interpretation of current rules; field work for practicing officiating techniques. Prerequisite: Consent of instructor.

KN 291 Field Experience 1 in Exercise and Rehabilitation Science (1)

This course is designed to help students explore exercise and rehabilitation professions, providing them a framework for the foundational knowledge and skills gained as an exercise and rehabilitation science major. Field observations exposing majors to potential careers and professional settings are included. Prerequisites: KN 248 & AL 101 or KN 250 & NU 102.

KN 299 Measurement and Evaluation in Kinesiology (2)

This course is designed to provide students with an understanding of measurement and evaluation principles in Kinesiology, and emphasizes the selection, development, administration and interpretation of appropriate assessments for physical education. Skill performance and fitness assessments with computer applications will be included. Prerequisites: KN 248 and KN 250, plus MA 112 or MA 116.

KN 300 Psychology of Sport and Physical Activity (3)

The study of psychological processes related to sport and exercise behavior. The course will provide a broad overview of the major topics, including: motivation, arousal, goal-setting, self-confidence, and imagery. Prerequisites: KN 248 and KN 250, or junior standing and consent of instructor.

KN 302 Coaching Basketball (2)

Fundamentals and coaching techniques in basketball. Rules, offensive and defensive strategies, planning practice sessions, and administrative requirements to coach basketball. Prerequisite: None.

KN 303 Coaching Track & Field (2)

Fundamentals and coaching methods in all events within the track and field program. Rules, regulations and administrative requirements to coach track and field.

KN 304 Coaching Baseball & Softball (2)

Individual fundamentals and team play in baseball and softball. Rules, strategies, and administrative requirements to coach baseball and softball.

KN 305 Coaching Volleyball (2)

Fundamentals and coaching techniques in volleyball. Rules, strategies and administrative requirements to coach volleyball. Prerequisite: None.

KN 306 Organization and Administration in Kinesiology (3)

This course is designed to provide a theoretical and practical approach to the organization and administration of Kinesiology programs. Students will be assigned administrative projects to enhance learning. Prerequisite: junior standing or consent of instructor.

KN 308 Nutrition for Sports & Fitness (3)

This course will provide an understanding of nutrition and its relationship to physical fitness and sports performance. Students will learn about nutrition guidelines and the effects of nutrition on topics such as metabolism, hydration, body composition, supplements, ergogenic aids, and sports specific training. In addition, students will perform and analyze nutrition and energy assessments and make recommendations to improve performance. Prerequisite: KN 248 and KN 250, or junior standing and consent of instructor.

KN 311 Motor Development (3)

This course is designed to provide students with an examination of current theories of motor development throughout the life cycle. Emphasis is placed on development of fundamental motor skills, physical growth and development, and assessment. Students will be required to conduct a variety of assessments on diverse individuals. Prerequisites: Either KN 260, KN 261, KN 360, or KN 361 or consent of instructor.

KN 315 Special Topics in Kinesiology (1-3)

May vary from semester to semester. May be taken more than one semester depending upon topic.

KN 318 Exercise Psychology (3)

This course will introduce students to the basics and provide a solid foundation of psychological consequences and adherence aspects associated with the psychology of exercise. The interconnection among theory, research, application, and intervention will be utilized in order to apply the knowledge learned in this course to actual situations. Prerequisites: KN 248 and KN 250, or junior standing and consent of instructor.

KN 321 Anatomical Kinesiology (3)

The study of anatomical and mechanical principles in relation to human motion. Prerequisite: BI 250 or BI 275.

KN 326 Physiology of Exercise (3)

Process of scientific inquiry applied to physiological systems engaged in exercise. Examination of the acute and chronic effects of exercise on structure, function, and performance. Prerequisite: BI 255.

KN 327 Physiology of Exercise Lab (1)

The purpose of this course is to gain an understanding of the physiology (neuromuscular, metabolic, and cardiopulmonary) of exercise, including the physiology of training (i.e., the acute responses and chronic adaptations that occur due to exercise). This course will reinforce the basic exercise physiology concepts via application, increase awareness of and proficiency in performing selected laboratory tests and measurements commonly used in exercise physiology studies of humans, and provide practice in the process of data collection, evaluation and reporting. Prerequisites: BI 255; must be taken concurrently with KN 326.

KN 330 Administration of Exercise and Rehabilitation Science (3)

This class is designed to provide foundational information relating to the Administration of Exercise and Rehabilitation Science professions for Kinesiology majors who intend on pursuing Exercise or Rehabilitation Science professions. Students will learn the importance of quality management of financial, human, and facility resources. Prerequisites: KN 291 and junior standing.

KN 335 Human Factors and Ergonomics (3)

This course examines human factors and ergonomics as the interdisciplinary study of humans interacting with elements of systems in the workplace and other environments. Thorough analysis, evaluation, and synthesis are employed in the application of design to optimize well-being and performance. Prerequisite: junior standing or consent of instructor.

KN 340 Adapted Physical Education (3)

This course will provide students with the knowledge, skills and instructional techniques necessary to adapt and modify physical activities for students with developmental delays and/or mental and physical disabilities. Legal issues associated with educating individuals with disabilities in the physical education setting will be examined. A practicum experience in the public school setting and/or community setting is required. Prerequisite: KN 311 or consent of instructor.

KN 341 Physical Education Activity Techniques I (2)

This course emphasizes the learning of basic skills and teaching progressions, including lead-up games/activities, instructional strategies & teaching methods for activities such as basketball, soccer/speedball, softball, flag football, team handball, lacrosse, and floor hockey. Prerequisites: KN 248 and KN 250.

KN 342 Physical Education Activity Techniques II (2)

This course emphasizes the learning of basic skills and teaching progressions, including lead up games/activities, instructional strategies and teaching methods of aerobics, weight lifting, track and field, and unique physical education games. Prerequisites: KN 248 and KN 250.

KN 343 Physical Education Activity Techniques III (2)

This course will provide undergraduate physical education majors with an introduction to a variety of sports and activities found in various school curricula. Additionally, the course will provide an opportunity for students to gain teaching experience through peer-teaching experiences. Sports and activities to be covered will include: Archery, Badminton, Bowling, Golf, Pickleball, Table Tennis, Tennis, and Volleyball. Prerequisites: KN 248 and KN 250

KN 344 Physical Education Activity Techniques IV (2)

This course emphasizes the learning of basic skills and teaching progressions, instructional strategies and teaching methods for these activities: Pre-K – 12 rhythms and dance, including creative rhythms, social, folk and line dances, and basic tumbling, stunts and balance activities. Prerequisites: KN 248 and KN 250.

KN 345 Physical Education Activity Techniques V (2)

This course will provide Physical Education and Kinesiology majors with an introduction to a variety of outdoor activities and related teaching experiences. The overall purpose is to provide potential teachers and recreational leaders with the foundational knowledge and skills necessary to teach and participate in a variety of outdoor leisure activities. An additional fee is associated with this course. Prerequisites: KN 248 and KN 250.

KN 350 Orthopedic Evaluation (3)

This course is designed to instruct students on the techniques involved evaluating orthopedic injuries. This course will cover the sequence of a formal evaluation, documentation, the signs & symptoms of common injuries, & differential diagnosis. Prerequisite: KN 321.

KN 357 Sports Performance Training and Reconditioning (3)

This course provides students with the knowledge and skills to design, measure, and instruct contemporary activity-specific functional training programs. The course will emphasize methods and progression of strength, flexibility, speed, power including Olympic lifts and plyometrics, agility, balance, core and endurance training techniques with modern tools and exercise equipment. Peer teaching and testing and opportunity to participate in practical application of skills is included. Prerequisite: BI 255 and KN 342.

KN 367 Therapeutic Exercise (3)

This course is designed to provide Kinesiology majors with theoretical basis, comprehension and synthesis in the application of therapeutic exercise to address metabolic disease and musculoskeletal disorders. Students will develop specific exercise approaches for a varied population of people with a variety of special conditions to improve movement, function and quality of life. Prerequisite: KN 321.

KN 370 Facility & Event Management (3)

This course addresses the principles and procedures involved in sports facility and event management. Special emphasis will be given to sports event planning, production and evaluation. Prerequisite: KN 306 or instructor approval.

KN 403 Biomechanics (3)

This course provides an overview of biomechanics related to sport and exercise. Specific topics include: external forces and their effect on the body and its movement, including linear and angular kinetics; work, power, and energy in human activity; and the internal mechanics of human tissues, specifically the bones, skeletal muscle, ligaments, and tendons that make movement possible. This course will consist of lecture, discussion, and laboratory sessions to communicate the background of biomechanical principles, as well as their application. Prerequisites: KN 321 and PS 131/PS 132 or PS 261

KN 410 Fitness Testing and Exercise Prescription (3)

Students will become familiar with current fitness testing procedures and exercise prescription methods. Prerequisites: KN 326 and KN 342, MA 140 or PY 151.

KN 411 Current Literature in Kinesiology (3)

This course acquaints students with the processes by which research generates information and theoretical advances in Kinesiology and also explores specific recent developments in the field. Prerequisite: KN 326, MA 140 or PY 151.

KN 420 Curriculum Development for Elementary and Secondary Physical Education Methods (3)

Instructional methods, resources and curriculum development aimed at preparing future physical education teachers with the knowledge to create developmentally appropriate activities for preschool through high school age students, utilizing practical site-based experiences in planning, teaching and evaluating physical education programs. Prerequisites: KN 311, plus any e of the following: KN 341, KN 342, KN 343, KN 344, KN 345, and formal admission to the Professional Teacher Education Program or consent of instructor.

KN 430 Senior Seminar Physical Education (1)

This is a capstone course in which teacher candidates will review and update their Physical Education philosophy, complete their Physical Education portfolio, further develop their professional goals and plan for professional development; create their advocacy plan, and complete a practical experience related to the major. Prerequisites: Senior standing and formal acceptance into the Professional Teacher Education Program; or consent of instructor.

KN 491 Field Experience 2 in Exercise and Rehabilitation Science (3-6)

This course is designed for students interested in gaining practical experience in settings related to exercise and rehabilitation science, such as athletic training, physical therapy, clinical exercise physiology, fitness/wellness, sports and conditioning or research settings. Prerequisites: KN 291, KN 357 and KN 410; current First Aid and CPR certifications must be on file prior to the start of the field experience.

KN 497 Internship: Sport Management (6-12)

This course provides an off-campus experience in the field of sport management, in areas such as facility operations, game day promotions and advertising, ticket sales, and/or front-office administration. Each credit hour of internship equates to 50 contact hours at the internship site. This internship is for a minimum of 300 hours and a maximum of 600 hours. Prerequisite: All Major and Activity Requirements completed; current First Aid and CPR certifications must be on file prior to start of internship.

KN 498 Internship: Health and Fitness Promotion (3-6)

This course provides an off-campus experience in health promotion and/or fitness settings such as public health, corporate wellness, personal training, strength and conditioning, and recreation administration. Each credit hour of internship equates to 50 contact hours at the internship site. This internship is for a minimum of 150 hours and a maximum of 300 hours. Prerequisite: All Major and Activity Requirements completed; current First Aid and CPR certifications must be on file prior to start of internship.

Kinesiology in Exercise and Rehabilitation Science, BS

The Bachelor of Science in Kinesiology in Exercise and Rehabilitation Science is designed for students desiring to pursue graduate or professional school in fields such as Athletic Training, Exercise Physiology, Physical or Occupational Therapy, Nutrition Science/Dietetics, Physician Assistant, Chiropractic and Cardiac Rehabilitation. This degree prepares the student to meet many of the prerequisite courses necessary for application to the above mentioned professional degree programs.

Degree Requirements

Code	Title	Hours
Major Requirements		
KN 248	Wellness Concepts and Applications	3
KN 266	Microcomputer Applications to Kinesiology	2
KN 291	Field Experience 1 in Exercise and Rehabilitation Science	1
KN 300 or KN 318	Psychology of Sport and Physical Activity Exercise Psychology	3
KN 308	Nutrition for Sports & Fitness	3
KN 321	Anatomical Kinesiology	3
KN 326	Physiology of Exercise	3
KN 327	Physiology of Exercise Lab	1
KN 330	Administration of Exercise and Rehabilitation Science	3
KN 342	Physical Education Activity Techniques II	2
KN 357	Sports Performance Training and Reconditioning	3
KN 403	Biomechanics	3
KN 410	Fitness Testing and Exercise Prescription	3
KN 411	Current Literature in Kinesiology	3
Subtotal		36
Major Electives		
Select seven hours from the following:		7
KN 257	Prevention and Care of Athletic Injuries	
KN 315	Special Topics in Kinesiology	
KN 335	Human Factors and Ergonomics	
KN 350	Orthopedic Evaluation	
KN 367	Therapeutic Exercise	
KN 491	Field Experience 2 in Exercise and Rehabilitation Science	
Select two credits from the following:		2
KN 341	Physical Education Activity Techniques I	
KN 343	Physical Education Activity Techniques III	

KN 344	Physical Education Activity Techniques IV	
KN 345	Physical Education Activity Techniques V	
Subtotal		9
Correlated Requirements		
AL 101	Foundations of Healthcare ²	3
BI 100 & BI 101 or BI 102	Introduction to Biology and Introductory Biology Laboratory General Cellular Biology	5
BI 255	Human Physiology	4
BI 275	Human Anatomy	4
CH 121 or CH 151	General, Organic, and Biological Chemistry Fundamentals of Chemistry I	5
IL 170	Library Research Strategies	1
PY 151 or MA 140	Psychological Statistics Statistics	3
PS 131 & PS 132 or PS 261	Biological Physics for the Health and Life Sciences and Biological Physics for the Health and Life Sciences Laboratory College Physics I	4-5
Subtotal		29-30
Correlated Electives ¹		
AL 257 or AL 265	Applied Neurophysiology - Occupational Therapy Applied Neurophysiology - Physical Therapist Assistant	9
AL 320	Human Disease	
CN 306	Health Communication	
HS 371 or HS 378	Mental Health and Aging Issues in Aging	
PY 231	Abnormal Psychology	
PY 326	Health Psychology	
Subtotal		9
Total Hours		83-84

¹ EMT Certification can also count in this section for 1- 6 credits.

² OR KN 250 Introduction to Kinesiology and NU 102 Medical Terminology

Kinesiology in Health and Fitness Promotion, BA

The Bachelor of Arts in Kinesiology in Health and Fitness Promotion is designed for students desiring to pursue careers in health promotion, wellness and/or fitness-related settings. Areas such as exercise and sports performance, personal fitness training, corporate wellness, recreation/leisure settings, public health management and profit/non-profit health agencies are some examples. In addition, students could pursue advanced degrees in other health and fitness-related professions but may need to complete additional course work to meet prerequisite requirements for graduate school.

Degree Requirements

Code	Title	Hours
Major Requirements		
KN 248	Wellness Concepts and Applications	3
KN 250	Introduction to Kinesiology	2
KN 257	Prevention and Care of Athletic Injuries	3
KN 266	Microcomputer Applications to Kinesiology	2
KN 300	Psychology of Sport and Physical Activity	3
or KN 318	Exercise Psychology	
KN 306	Organization and Administration in Kinesiology	3
or KN 330	Administration of Exercise and Rehabilitation Science	
KN 321	Anatomical Kinesiology	3
KN 326	Physiology of Exercise	3
KN 342	Physical Education Activity Techniques II	2
HL 377	Critical Issues in Health	3
KN 410	Fitness Testing and Exercise Prescription	3
Subtotal		30
Electives		
Select two electives from the following:		6
KN 308	Nutrition for Sports & Fitness	
KN 335	Human Factors and Ergonomics	
KN 357	Sports Performance Training and Reconditioning	
KN 411	Current Literature in Kinesiology	
KN elective course 300 level or above		
Subtotal		6
Activity Techniques Requirements		
Select one of the following:		2
KN 341	Physical Education Activity Techniques I	
KN 343	Physical Education Activity Techniques III	
KN 344	Physical Education Activity Techniques IV	
KN 345	Physical Education Activity Techniques V	
Subtotal		2
Internship Requirement		
KN 498	Internship: Health and Fitness Promotion (150-300 contact hours)	3-6
Subtotal		3-6
Prerequisite Science Requirements		
Select one of the following:		5
BI 100 & BI 101	Introduction to Biology and Introductory Biology Laboratory	
or BI 102	General Cellular Biology	
Select one of the following:		3-4
BI 250	Introduction to Human Anatomy	
or BI 275	Human Anatomy	
BI 255	Human Physiology	4
Subtotal		12-13
Correlated Requirements		
Select four of the following:		12
AL 320	Human Disease	
CN 306	Health Communication	

HS 371	Mental Health and Aging	
MU 307	Music and the Brain	
PY 326	Health Psychology	
SO 315	Sociology of Sport	
Subtotal		12
Total Hours		65-69

Kinesiology in Sport Management, BA

The Bachelor of Arts in Kinesiology in Sport Management is designed for students desiring to pursue careers in the business side of sports and activity-oriented industries. Some examples are front office administration, facility operations, advertising and ticket sales, game day promotions, and retail equipment sales. Included in this degree is a twenty-one credit hour Minor in Business certified by the Washburn University School of Business.

Degree Requirements

Code	Title	Hours
Major Requirements		
KN 248	Wellness Concepts and Applications	3
KN 250	Introduction to Kinesiology	2
KN 257	Prevention and Care of Athletic Injuries	3
KN 266	Microcomputer Applications to Kinesiology	2
KN 306	Organization and Administration in Kinesiology	3
KN 321	Anatomical Kinesiology	3
KN 326	Physiology of Exercise	3
KN 370	Facility & Event Management	3
Subtotal		22
Electives		
Three non-activity electives, with at least two being 300-level or above		8-9
Subtotal		8-9
Activity Techniques Requirements		
Select two of the following:		4
KN 341	Physical Education Activity Techniques I	
KN 342	Physical Education Activity Techniques II	
KN 343	Physical Education Activity Techniques III	
KN 344	Physical Education Activity Techniques IV	
KN 345	Physical Education Activity Techniques V	
Subtotal		4
Internship Requirement		
KN 497	Internship: Sport Management (300-600 contact hours)	6-12
Subtotal		6-12
Prerequisite Science Requirements		
Select one of the following:		5
BI 100 & BI 101	Introduction to Biology and Introductory Biology Laboratory	
or BI 102	General Cellular Biology	
Select one of the following:		3-4
BI 250	Introduction to Human Anatomy	
Subtotal		12-13

or BI 275	Human Anatomy	
BI 255	Human Physiology	4
Subtotal		12-13
Correlated Requirements		
SO 315	Sociology of Sport	3
Subtotal		3
School of Business Requirements		
EC 200	Principles of Microeconomics	3
EC 201	Principles of Macroeconomics	3
AC 224	Financial Accounting	3
BU 360	Principles of Marketing	3
Select one of the following:		3
BU 342	Organization & Management	
BU 345	Human Resources Management	
BU 346	Organizational Behavior	
Two Electives from either AC, BU, or EC, with each being \geq 300 level		6
Subtotal		21
Total Hours		76-84

P-12 Physical Education Teaching, BEd

The **Bachelor of Education in P-12 Physical Education Teaching** is designed for undergraduate students desiring to teach in the public school system. This degree is completed in conjunction with the Washburn University Education Department and prepares students to obtain their Kansas Teaching Licensure. In addition, a P-12 Physical Education Teaching Licensure program is offered for students who have graduated with a non-teaching degree in any discipline and want to pursue a licensure program in Physical Education.

Degree Requirements

Code	Title	Hours
Major Requirements		
KN 133	Swimming I	1
or KN 134	Swimming II	
KN 248	Wellness Concepts and Applications	3
KN 250	Introduction to Kinesiology	2
KN 266	Microcomputer Applications to Kinesiology	2
KN 299	Measurement and Evaluation in Kinesiology	2
KN 306	Organization and Administration in Kinesiology	3
KN 311	Motor Development	3
KN 321	Anatomical Kinesiology	3
KN 326	Physiology of Exercise	3
KN 340	Adapted Physical Education	3
Subtotal		25
Elementary and Secondary PE Certification Requirements		
KN 341	Physical Education Activity Techniques I	2
KN 342	Physical Education Activity Techniques II	2
KN 343	Physical Education Activity Techniques III	2
KN 344	Physical Education Activity Techniques IV	2

KN 345	Physical Education Activity Techniques V	2
KN 420	Curriculum Development for Elementary and Secondary Physical Education Methods	3
KN 430	Senior Seminar Physical Education	1
Subtotal		14
Prerequisite Science Requirements		
BI 250	Introduction to Human Anatomy	3
BI 255	Human Physiology	4
Subtotal		7
Professional Education P-12 Certification Requirements		
ED 155	Teaching, Learning, Leadership	3
ED 285	Educational Psychology	3
ED 165	Ed. 1, Examining Teaching as a Profession: Diversity 1, Literacy 1, Technology 1	3
ED 275	Ed. 2 Exploring Teaching as a Profession (Classroom Management 1, Diversity 2, Technology 2) Ed. 2	3
ED 295	Ed. 3 Experiencing Teaching as a Profession (Classroom Management 2, Diversity 3, Literacy 2)	3
ED 302	Teaching Exceptional Learners	3
ED 354	Curriculum and Assessment	3
ED 395	Ed. 4 Extending Teaching as a Profession (Classroom Management 3, Literacy 3, Technology 3)	3
ED 440	Student Teaching Grades P-12	12
Subtotal		36
Total Hours		82

See the Education Department (p. 121) section of the catalog for more information on specific Teacher Education admission requirements.

Kinesiology in Coaching, Minor

The **Minor in Coaching** is aligned with the National Association for Sport and Physical Education (NASPE) Standards and provides students with the education and experience needed to obtain an entry-level coaching position. In addition, courses selected provide the knowledge needed for students to complete the American Sport Education Program (ASEP) national coaching certification exam.

Minor in Coaching

A CPR/First Aid/AED Certification must be current at time of graduation.

Code	Title	Hours
KN 240	Coaching Principles and Philosophy	2
KN 257	Prevention and Care of Athletic Injuries	3
KN 300	Psychology of Sport and Physical Activity	3
KN 308	Nutrition for Sports & Fitness	3
KN 357	Sports Performance Training and Reconditioning	3
KN 341	Physical Education Activity Techniques I	2
or KN 343	Physical Education Activity Techniques III	
Select two of the following:		4
KN 253	Fundamentals of Football Coaching	

KN 302	Coaching Basketball	
KN 303	Coaching Track & Field	
KN 304	Coaching Baseball & Softball	
KN 305	Coaching Volleyball	
Total Hours		20

Kinesiology in Fitness, Minor

The **Minor in Fitness** provides content knowledge and competencies expected for entry-level fitness certifications through the American Council on Exercise, American College of Sports Medicine, and the National Strength and Conditioning Association.

Minor in Fitness

A CPR/First Aid/AED Certification must be current at time of graduation.

Code	Title	Hours
KN 257	Prevention and Care of Athletic Injuries	3
KN 300 or KN 318	Psychology of Sport and Physical Activity Exercise Psychology	3
KN 308	Nutrition for Sports & Fitness	3
KN 321	Anatomical Kinesiology	3
KN 326	Physiology of Exercise	3
KN 410	Fitness Testing and Exercise Prescription	3
Total Hours		18

Liberal Studies

College of Arts and Sciences

The Associate of Liberal Studies degree is intended to give students a broad background in liberal studies in preparation for further study or employment.

Student Learning Outcomes for Associate of Liberal Studies

Washburn University students completing the Associate of Liberal Studies degree, upon graduation, are expected to have:

- Acquired an introductory knowledge of the disciplines comprising the humanities, natural sciences, and social sciences.
- Acquired a foundation for continued academic study.

Degree Requirements

Code	Title	Hours
Core Requirements		
MA 112 or MA 116	Contemporary College Mathematics (C or better) College Algebra	3
EN 101	First Year Writing (C or better)	3
WU 101	The Washburn Experience (C or better) ¹	3
Subtotal		9
General Education Requirements		
Social Sciences (minimum of 2 disciplines)		6
Natural Sciences/Mathematics (minimum of 2 disciplines)		6
Arts/Humanities (minimum of 2 disciplines)		6

Subtotal	18
Specific Additional Requirements	
Choose one of the following plans:	12
<i>Plan A Coursework</i> ²	
A focus of at least 12 hours in one College of Arts and Sciences discipline (C or better)	
<i>Plan B Coursework</i> ²	
Courses selected from the general education disciplines (C or better)	
Subtotal	12
Electives	
Additional coursework to achieve a minimum of 60 hours ³	21-24
Subtotal	21-24
Total Hours	60-63

¹ Students transferring to Washburn University with at least 24 hours with a GPA of 2.0 or higher AND those who have completed 24 hours by Spring 2014 are exempt from the WU 101 requirement.

² Courses used to satisfy general education requirements cannot be used to count toward this 12-hour total.

³ No more than 27 hours in a single discipline excluding core requirements may be included in the 60 hour total. Minimum of 24 hours from Washburn with 12 of the last 24 hours at Washburn. Minimum GPA of 2.0.

Mass Media

Department of Mass Media

Website: www.washburn.edu/massmedia (<http://www.washburn.edu/massmedia/>)

Faculty

Professor Maria Raicheva-Stover, PhD, Chair
 Assistant Professor Kristen Grimmer, PhD
 Assistant Professor Matthew Nyquist, MFA
 Assistant Professor Andrew Anglin, PhD
 Senior Lecturer Regina Cassell, MS
 Lecturer Sam Finch, MA

Mission

The mission of the Department of Mass Media at Washburn University is the pursuit of excellence. Through excellence in teaching, scholarly, creative, and community activities, students are empowered to discover and express their voices in today's mass media landscape. With students at the forefront of all of its endeavors, the Department of Mass Media strives to build exceptionally ethical, professional, critical, strategic, and socially responsible leaders who are prepared to make an indelible impact in a diverse and engaging media environment. Through cooperative partnerships, projects, and internships with global, national, and local organizations, students are provided opportunities to apply the skills developed in the classroom to their professional endeavors. Upon graduation, students are prepared to create responsible, effective contemporary media for a mobile and global society. Driven by its faculty and students, the Department of Mass Media aims to promote media literacy, freedom of expression, and socially responsible communication.

Vision Statement: You want to change the world and get a job. We'll help you do both.

Description of the Department

We live in a society dominated by the media where it is more important than ever to master the art of communication. At the same time, the mass media landscape is changing almost daily. That's why the mass media program is designed to be flexible and help our students adapt and thrive in an era of rapid transformation.

Washburn's program prepares students to become successful communicators. Our students learn through real-world experience combined with education in the theory, the art and practice of communications in today's media environment.

Our students graduate ready to take their place in a wide range of fields including online, broadcast and print journalism, advertising, media analysis, film and video production, digital media management, as well as public relations and event planning. The major and minor can be selected in combination with other majors offered in the College of Arts and Sciences and other schools within the university.

Student Learning Outcomes

Mass media students at Washburn University, upon graduation, are expected to:

- Recall and list important historical developments of media in American Society.
- Explain and describe the increasingly changing media environment in terms of technological, regulatory, economic, legal, ethical, and societal trends.
- Demonstrate the ability to use technology to research, compare, create, and organize appropriate information and analyze its use for various audiences.
- Critically evaluate questions, reflect on their meaning, compare multiple viewpoints and examine evidence to make an informed judgment.
- Create original professional media projects for community organizations.
- Plan and produce information campaigns that meet specific organizational needs.

Hands-on Experiences

Mass media majors have the opportunity to gain hands-on experience in advertising, public relations, journalism, as well as film and video at Washburn University. Most mass media courses are highly involved with learning skills in technology, as well as producing work for real-world clients. Mass media majors also gain much needed experience in film and TV broadcasting by using Instructional Media's television studio, WUCT-CH 13 cable channel, and the public TV station, KTWU. Student Media offers paid opportunities for print, digital media, radio, advertising and promotions. The writing, design and editing courses are taught in the Stauffer Mass Media computer lab. The film and video editing courses are taught in the film editing lab facility in Henderson Learning Center.

Internships

Internships are required for all students. The mass media faculty members maintain a network of contacts, but students are responsible for finding and setting up their own internships. The process of signing up for the internship program starts during the semester immediately

preceding the internship semester. To enroll in the internship class, students must first obtain the consent of the Internship Coordinator. Students work a total of 128 hours for the organization. Twenty-four hours of credit in the major, with at least nine hours in the area of concentration, must be completed prior to the internship experience.

Programs

- Mass Media, BA (p. 163)
- Mass Media, Minor (p. 164)
- Applied Media, Minor (p. 164)
- Film and Video, Minor (p. 164)

Course Offerings

MM 100 Introduction to Mass Media (3)

The subject of this course is mass media. It is designed to acquaint students with newspapers, magazines, books, radio, recordings, television, films, advertising, public relations, and the interactive media of computers and information technology. Prerequisite: None. **(General Ed Humanities. Information Literacy and Tech.)**

MM 128 The Impact of The Walt Disney Company on Society (3)

This course will explore the impact that the Walt Disney company has had on society in both the domestic and international cultural spaces. Topics explored include the company's influence on society and culture through: 1) mass media, such as film, television, radio, publishing, literature, online, and gaming; 2) business, such as tourism, merchandising, licensing, franchising, marketing, and promotions; 3) innovation, such as technology, creative development, engineering, and architecture; 4) history, such as historical, gender, race, and colonial representation. Prerequisites: None.

MM 155 Sports and the Media (3)

This course is designed as a foundational course and, as such, examines the interrelationship between the media and sport. Emphasis is placed on how media tell the story of sport. Students critically examine how media shape sports news, images, events, identities, and the cultural values of fans regarding sport. Also, students become acquainted with a diverse array of media and media industries (i.e., newspapers, magazines, books, radio, recordings, television, film, gaming, advertising, public relations, and digital media) in the context of the sport industry in order to understand the role these media play in transmitting sport as a cultural phenomenon. Prerequisites: None **(General Ed Humanities. Information Literacy and Tech.)**

MM 199 Professional Media Applications (3)

This class implements technology processes and the construction of messages to be used in commercial, social and mobile media while creating an understanding of the significance and application of basic media terminology. Prerequisite: None.

MM 202 Professional Media Writing" (3)

The study and practice of fundamentals of media writing for journalism, public relations and advertising. Prerequisites: MM 100 and MM 199 or consent.

MM 222 Screenwriting (3)

The focus in this course is to develop knowledge and skills relating to visualization of cinematic story elements, and writing a narrative film script. Topics include: formatting, structure, character development, conflict, dialogue, and other script elements. Prerequisites: MM 100 and MM 199 or consent.

MM 300 Media Law, Ethics & Diversity (3)

This course takes an in-depth look at the First Amendment, ethics, and diversity from a media practitioner's standpoint. Students will think critically about the freedoms of speech in the United States, privacy in a digital age, and common legal protections in the workplace. The course will also include an examination of professional ethics in mass media and how those may be applied in case studies. Furthermore, students will also examine the societal representations of gender, race, and disability in media and how those images influence and reinforce cultural stereotypes. Prerequisites: MM 100 or consent.

MM 301 Mass Media & Cinema (3)

Investigation into how the cinema portrays the media of radio, television, film and the press. Discussion of various types of film analysis and criticism, including production analysis, sociological, genre, and ideological criticism of film form and content. Prerequisites: MM 100 or consent.

MM 303 Video Game Storytelling (3)

This course empowers students to learn the professional side of video games, and understand the central role of storytelling and character development. In addition to storytelling basics, students are exposed to the vital history and design elements in the industry. Professionals from all sides of the video game industry interact directly with students, providing them with first-hand insights. This course provides a foundation for pursuing a career in the video game industry from the producer, designer, executive, journalistic, and public relations standpoints. Prerequisites: None

MM 308 Intro Film & Video Techniques (3)**MM 311 TV Studio Production (3)**

Practice of the production roles and technical operations required to work collaboratively in a multi-camera TV studio environment. This course will provide students the opportunity to live-direct and work as part of a TV studio production crew in a variety of roles to produce a series of studio and field productions. Prerequisite: MM202 OR MM222 or consent

MM 312 Cinematography (3)

This course focuses on the skills and theory of the camera department in the modern professional film and video environment. Students learn how to operate as the cinematographer/director of photography, gaffer, 1st and 2nd assistant camera, and grip. Through lecture students learn the theory and technique of visual storytelling as well as gain hands-on practice in the studio. Prerequisite: MM100, MM 199 or consent.

MM 319 Public Relations I (3)

This class surveys and analyzes organizational practices in communicating and building relationships with audiences. Prerequisites: MM 100, MM 199, and MM 202 or consent.

MM 321 Advanced Professional Media Applications (3)

This course introduces students to a practice-based approach to visual communication where fundamental principles of typography, color and design are introduced alongside a variety of projects that expose students to industry-standard applications and software. Prerequisites: MM100 and MM 199 or consent of instructor.

MM 326 Student Media Practicum (1)**MM 328 The Impact of The Walt Disney Company on Society (3)**

This course will explore the impact that the Walt Disney company has had on society in both the domestic and international cultural spaces. Topics explored include the company's influence on society and culture through: 1) mass media, such as film, television, radio, publishing, literature, online, and gaming; 2) business, such as tourism, merchandising, licensing, franchising, marketing, and promotions; 3) innovation, such as technology, creative development, engineering, and architecture; 4) history, such as historical, gender, race, and colonial representation. Prerequisites: EN101.

MM 350 Film Editing and Theory (3)

This course examines the craft and art of editing in the digital age and explores film history and theory as related to the editing process. Students engage in editing assignments to apply continuity and non-linear techniques. Prerequisites: MM100, MM199 or consent

MM 351 Data Literacy & Audience Research (3)

To make effective strategic decisions, advertising and public relations professionals must be informed of trends and changes related to an organization and its competitive environment. Furthermore, advertising and public relations professionals must know how to design and execute research that will inform organizational decision-making and the creative process. Working from the perspective of a brand strategist, students in this course collect, interpret, evaluate, and report research findings. Students are exposed to both qualitative and quantitative research methods for advertising and public relations program management. Emphasis is placed on the research process, sampling techniques, data collection methods, evaluation of data, and report writing. Prerequisite: MM321 or consent. This class is a corequisite to MM352.

MM 352 Advertising and PR Strategies (3)

This course focuses on the fundamentals related to the fields of advertising and public relations, and the larger roles that each discipline plays in an organization's overall integrated brand promotion (IBP) function. Students explore the foundational concepts related to the IBP industry's structure, professional careers in the field of IBP, how organizations segment and target potential and current consumers. Students also develop creative messaging for a variety of media channels, engage in strategic promotional planning, and discover brand building through reputation management and crisis communication techniques. Through this course, students emerge with both a broad understanding of IBP and its place in business and society, as well as a specific understanding of the IBP process. Prerequisites: MM202 and MM321 or consent. MM351 is a corequisite

MM 355 Sports & The Media (3)

Mediated sport is an important facet of modern life. This course will explore the fundamentals of media as related to both collegiate and professional sports. Students will apply strategic thought in the creation of various media related to the sport industry. Prerequisites: EN 101 and MM 199

MM 360 Minorities & The Media (3)

This class is an examination of the portrayal of underrepresented groups in the media, and how these audiences can be reached via media messages. Prerequisite: MM 100 or consent.

MM 372 Film Production (3)

This lab course provides students an opportunity to utilize the skills and theory they've learned from the prerequisite film courses on three high quality film projects as a collaborative trio. Students learn directing, producing and production/post sound skills as well as utilize their editing and cinematography skills with a focus on collaboration. With an emphasis on the professional environment, students acquire skills that allow them to walk onto any set or post-production environment on any type of narrative production. Prerequisites: MM222, MM312, and MM350

MM 375 Murder, Mayhem and Media (3)

This course teaches real-world skills and provides valuable information for students interested in covering crime or courts for media outlets; working in law enforcement or judicial public relations; or telling crime stories through books, movies or TV. The course provides insight into what police officers do, how the criminal justice system works and how the media covers crime, with an emphasis on social media and current events. The class seeks to help enable students to serve as the eyes and ears of their readers and viewers, telling stories in a descriptive manner that helps people hear the sirens and smell the smoke. Prerequisite: MM 202.

MM 393 Special Topics/Mass Media (1-3)

Special subject courses not covered in the department catalog listing. May be repeated when topics vary. Prerequisite: MM 100 or consent.

MM 400 Media Literacy (3)

This class includes a historical and critical overview of seminal theories and research in mass communication. Special emphasis will be placed on the relationship between media and society. Prerequisites: MM 100, MM 199, and EN 300 or consent.

MM 401 Media Analysis & Criticism (3)

This class includes a discussion of various levels of media analysis and criticism, including production analysis, sociological, feminist and ideological criticism of media form and content. There is also an emphasis on news analysis and television criticism. Prerequisites: MM 100 or consent.

MM 403 Advanced Professional Media Writing (3)

This course focuses on writing and information design skills by giving students the opportunity to practice writing mechanics, story editing, interviewing, and design for real-world publications like the Mass Media Alumni Newsletter, the Mass Media Messenger, and the Washburn Review. Students will also learn how to tailor messages to specific audiences and explore the duties of publication editors and managers from an organizational standpoint. Prerequisite: MM202

MM 405 Documentary Filmmaking (3)

Through readings, screenings, and assignments, this course will develop an understanding of the background and methods for producing independent documentary films, and the accompanying issues commonly encountered in this process. Students will develop a documentary project and script treatment on a topic of their choosing. Prerequisites: MM222, MM312, and MM350 or consent.

MM 408 Sports Branding & Promotion (3)

This course surveys the strategies, techniques, and media employed to promote a wide array of sports products available to the American audience. In this course, students explore the fundamentals of branding and promotion as related to both collegiate and professional sports. Topics explored include understanding the landscape of the sports industry, the variety of promotional tactics employed in the field, the role of entertainment related to the sports venue, the role of media in delivering the sports product, and consumer behavior related to the fan experience. Students emerge from the course with a strong understanding of the roles that branding and promotion play in building relationships between sports entities and consumers. Prerequisites: MM321

MM 409 Electronic Journalism (3)

This course is designed to provide students with essential writing and reporting skills for broadcast journalism. Special emphasis will be given to the writing, shooting and editing of television news stories, the process of news discovery, and how to deliver those stories for broadcast, web, and other interactive media. Prerequisites: MM 199.

MM 411 Entrepreneurial Media (3)

The class emphasizes how business principles are utilized to explore entrepreneurial opportunities in media. Students gain insight into how media content and service enterprises are conceived, planned, financed, and managed. The legal, ethical, and social implications of independent digital media ventures are considered. Prerequisites: MM 100 and MM 199 or consent.

MM 414 Advanced Film Production (3)

This advanced lab course functions as a full-fledged production company that works on one high-quality film project. Students select a director and producer duo from the class who then hire out the rest of the class as the DP/cinematographer, editor(s), production sound, post sound, assistant director, costume designer, production designer, and additional positions. The business aspects are analyzed from funding to distribution so students can leave the class with a high-quality project and a deeper understanding of how to work in whatever aspect of the business they chose. Prerequisites: MM372 or consent.

MM 415 Promotions Writing (3)

The course provides a comprehensive overview of various kinds of writing for digital platforms that media professionals produce. Students will practice research and learn how to tailor messages to specific audiences for specific purposes. Prerequisites: MM 100 and MM 202 or consent.

MM 420 Event Planning and Management (3)

This course focuses on event planning and management from a media practitioner's perspective for developing and executing projects such as organizational meetings, fundraising events, parties, team-building activities, ceremonies, and the like. Students will learn about budgeting, selecting event spaces, acquiring permits, planning food and activities, selecting speakers, speech writing, hospitality, managing risk, and developing contingency plans. Students will also be able to help plan and manage real-world events throughout the semester, putting into practice the skills they have learned. Prerequisite: MM321 or consent

MM 422 Editing (3)

Study of principles of correct and appropriate writing and creative expression in design. Prerequisite: MM 321.

MM 425 Creative Strategies In Advertising (3)

Students will learn creative strategy in researching, planning and developing advertising for print, broadcast and web. Special emphasis will be put on developing creative strategies for different target audiences. Prerequisites: MM 100 and MM 202 or consent.

MM 426 Advanced Student Media Practicum (2)

This course provides students with the opportunity to gain hands-on experience by becoming contributing members within Student Media's newsroom at Washburn. Students will assume assistant-level leadership responsibilities and a specific project to manage. Students will oversee a small group of staff members to complete a more in-depth media assignment, developed in consultation with the director of Student Media and a Core leader of the organization while continuing to build skills in writing, reporting, editing, photography, podcasting, videography and graphic design as a result of their contributions to the Washburn Review Newspaper, the Kaw Yearbook, and the Bod Magazine. Prerequisites: MM202 or consent.

MM 431 Creative Media Publications (3)

Students will work with on and off-campus clients to produce, edit, and design communication materials, both print and online, associated with business, industry, and non-profit groups. Students will also write, design, edit, and sell advertising for the department alumni magazine, the Mass Media Messenger. Prerequisite: MM 321.

MM 432 Advanced Advertising and PR Strategies (3)

Building on the foundational concepts studied in MM352, this course explores integrated brand promotion (IBP) through the execution of a complete IBP project with a real-world client. As part of this project students analyze a specific industry, cultivate insights related to the client's targeted consumers, develop objectives to solve the client's issue from an IBP perspective, create messaging for a variety of media channels, put forth a media plan and a means for the client to effectively measure the proposed plan, and pitch the plan to the client. Through this course, students emerge with real-world, practical experience in the field of IBP. Prerequisite: MM352 or consent.

MM 433 Film Festival Management (3)

This course follows the planning and execution of the annual WIFI Film Festival, with students in charge of programming, promotion, fundraising, marketing and logistics. Students experience all aspects of running a large entertainment event in a real-world setting. Prerequisites: MM202 OR MM222 or consent

MM 485 International Media Systems (3)

This class covers and analyzes the development, structure, and functions of media in other nations, and offers an examination of the role of communications in the international arena. Prerequisites: MM 100 and EN 300, or consent.

MM 492 Independent Study (1-3)

Investigates a mass media area of interest not covered in regular courses. Involves producing research or creative projects. Prerequisites: Consent of faculty and chairperson; majors only.

MM 493 Special Topics/Mass Media (1-3)

Special subject course not covered in the department catalog listing. May be repeated when topics vary. Prerequisites: MM 100 or consent.

MM 494 Internship (1-2)

Experience and training in professional setting related to mass media careers. Mass media faculty and the sponsoring organization supervise students. A total of 64 hours of work per credit hour is given to the sponsoring organization during the semester. Usually requires 8-12 hours per week. Prerequisites: consent; second semester junior or senior standing; 24 credit hours completed in the major and 9 hours completed in concentration.

MM 499 Career Development & Digital Portfolio (2)

Students in this class explore career options and make preparations for a transition from academic life to professional careers or graduate school. A significant portion of this class will be devoted to developing and/or improving the credentials needed to land a job in the media field. In particular, this class will provide students with the opportunity to finalize their resume and digital portfolio. Prerequisites: majors only; senior status.

Mass Media, BA

Degree Requirements

Majors must complete a total of 40 hours. This includes a variety of core course requirements, courses in a selected concentration, and elective courses. All majors must also complete CN 150 Public Speaking as part of their general education requirements. In addition, all majors must complete a 15-22 credit hour minor, which students must declare with the department that grants it.

Contemporary Journalism Concentration

The contemporary journalism concentration prepares students who want careers as writers, reporters, editors, or designers. The curriculum emphasizes storytelling through writing, reporting, editing, designing, producing and managing for print, audio, video and web.

Recommended Minors

- Electronic Art
- Business
- Psychology

Code	Title	Hours
MM 100	Introduction to Mass Media	3
MM 199	Professional Media Applications	3
MM 202	Professional Media Writing"	3
MM 300	Media Law, Ethics & Diversity	3
MM 321	Advanced Professional Media Applications	3
MM 400	Media Literacy	3
MM 403	Advanced Professional Media Writing	3
MM 409	Electronic Journalism	3
MM 415	Promotions Writing	3
MM 326	Student Media Practicum	1
MM 426	Advanced Student Media Practicum	2
MM 494	Internship	2
MM 499	Career Development & Digital Portfolio	2
Department electives		6
Total Hours		40

Advertising and Public Relations Concentration

The advertising and public relations concentration prepares students to work in a broad range of public and private sector positions requiring the skills of integrated brand promotion. The curriculum offers opportunities for students to pursue the business side of advertising and public relations or explore a customizable creative track. The course sequence includes instruction on professional media writing, principles and techniques of persuasive messaging, digital content strategies, message design as well as hands-on practice with real-world clients in the classroom.

Recommended Minors

- Art
- Business
- Museum Studies
- Computer Science
- Game Design

Code	Title	Hours
MM 100	Introduction to Mass Media	3
MM 199	Professional Media Applications	3
MM 202	Professional Media Writing"	3
MM 300	Media Law, Ethics & Diversity	3
MM 321	Advanced Professional Media Applications	3
MM 351	Data Literacy & Audience Research	3
MM 352	Advertising and PR Strategies	3
MM 403	Advanced Professional Media Writing	3
MM 415	Promotions Writing	3
MM 432	Advanced Advertising and PR Strategies	3
MM 494	Internship	2
MM 499	Career Development & Digital Portfolio	2
Department electives		6
Total Hours		40

Film and Video Concentration

The film and video concentration prepares students in a wide range of creative and technical skills and knowledge necessary for success as a professional in the field. The curriculum covers all of the stages of visual storytelling pre-production, production, and post-production. The course sequence provides a foundation in film history and criticism combined with hands-on and theoretical instruction on screenwriting, picture editing, sound design, sound editing, production sound recording/mixing, cinematography, documentary filmmaking, and studio production.

Recommended Minors

- Anthropology
- Art
- Computer Science
- Game Design
- English
- Music
- Theatre

Code	Title	Hours
MM 100	Introduction to Mass Media	3
MM 199	Professional Media Applications	3
MM 222	Screenwriting	3
MM 300	Media Law, Ethics & Diversity	3
MM 312	Cinematography	3
MM 350	Film Editing and Theory	3
MM 372	Film Production	3
MM 400	Media Literacy	3
MM 405	Documentary Filmmaking	3
MM 414	Advanced Film Production	3
MM 499	Career Development & Digital Portfolio	2
MM 494	Internship	2

Department electives	6
Total Hours	40

Mass Media, Minor

Minor Requirements

The **minor in Mass Media**: A minor can be developed in creative advertising, public relations, contemporary journalism or a combination of these areas. This option consists of 18 credit hours. Students must complete:

Code	Title	Hours
MM 100	Introduction to Mass Media	3
MM 199	Professional Media Applications	3
MM 202	Professional Media Writing"	3
Credit hours selected in consultation with a Department of Mass Media adviser		9-12
Total Hours		18-21

Applied Media, Minor

The **minor in Applied Media**: Undergraduates with majors outside of Mass Media often pursue careers that require skills taught in Mass Media courses, such as crafting effective mediated messages, managing social media campaigns or shooting and editing videos. The minor in Applied Media allows students to gain knowledge about digital tools and acquire hands-on skills that they will use to pursue the requirements of careers in their chosen majors.

Students will complete 18 credit hours:

Code	Title	Hours
MM 100	Introduction to Mass Media	3
MM 199	Professional Media Applications	3
MM 202	Professional Media Writing"	3
MM 321	Advanced Professional Media Applications	3
or MM 222	Screenwriting	
Six credit hours selected in consultation with a Department of Mass Media adviser.		6
Total Hours		18

Film and Video, Minor

Minor Requirements

The **minor in Film and Video**: For students who are interested in a special minor in Film and Video, there is an option of taking 21 credit hours and completing all courses in the Film and Video sequence:

Code	Title	Hours
MM 100	Introduction to Mass Media	3
MM 222	Screenwriting	3
MM 312	Cinematography	3
MM 350	Film Editing and Theory	3
MM 372	Film Production	3
MM 405	Documentary Filmmaking	3

MM 414	Advanced Film Production	3
Total Hours		21

Students interested in this option should visit with a Department of Mass Media adviser.

Mathematics and Statistics

Department of Mathematics and Statistics

Website: www.washburn.edu/math (<http://www.washburn.edu/math/>)

Faculty

Associate Professor Sarah Cook, PhD Chair
 Professor Mike Mosier, PhD
 Professor Janet Sharp, PhD
 Professor Jennifer Wagner, PhD
 Associate Professor Gaspar Porta, PhD
 Assistant Professor Guannan Hu, PhD
 Lecturer Todd Cooksey, MA
 Lecturer Angela Crumer, MS
 Lecturer Stephanie Herbster, MS
 Lecturer Beth McNamee, MA
 Math Success Coach Lori Gill

Mission

The mission of the Department of Mathematics and Statistics is to ensure all mathematics majors obtain a comprehensive knowledge of mathematics in terms of content, problem solving, analytical skills, and abstract mathematical reasoning. All mathematics majors will be able to communicate their skills and knowledge effectively and will be able to make appropriate choices regarding the method of solution and presentation of problems. We are committed to providing high-quality instruction at all levels, in our developmental, lower division, General Education, and upper-division courses. Further, the department is committed to providing service to the community and our profession in a variety of ways, including a number of on-campus programs for grade 6-16 learners, professional consultations, involvement in professional organizations, and other outreach activities.

The Major

The Mathematics Department offers four specialties for mathematics majors. Note: Transfer students must complete at least nine upper division hours in mathematics from the Washburn Mathematics and Statistics Department.

General Requirements

General requirements for the Bachelor of Arts degree or the Bachelor of Science degree are listed (p. 67) in the catalog. See pages listed in the index. Graphics calculators are required in all courses MA 112 Contemporary College Mathematics to MA 152 Calculus & Analytic Geometry II inclusive, and MA 253 Calculus/Analytic Geometry III.

For a suggested initial schedule for all three specialties, please see your advisor.

Programs

- Mathematics, BA-BS (p. 169)
- Actuarial Science Specialization, BA-BS (p. 170)

- Applied Statistics Specialization, BA-BS (p. 170)
- Secondary Mathematics, BA-BEd-BS (p. 170)
- Natural Sciences and Mathematics, AA (<https://catalogedits.washburn.edu/undergraduate/college-arts-sciences/natural-sciences-mathematics/natural-sciences-mathematics-aa/>)
- Mathematics and Statistics, Minor (p. 171)
- Applied Statistics, Minor (p. 171)
- Game Design, Minor (p. 171)

Course Offerings

MA 103 Basic Algebra (3)

A first course in algebra. Signed numbers and operations, integer exponents, linear equations and inequalities, lines, polynomials, factoring, rational expressions, applications involving linear equations. Does not count towards degree credit hour requirements, nor general education requirements. Prerequisite: None.

MA 104 Intermediate Algebra (3)

Operations with polynomial and rational expressions, factoring, equations (linear, absolute value, quadratic, rational, root), inequalities (linear, compound, absolute value), graphing linear and quadratic functions, systems of linear equations, rational exponents and radicals, applications (involving linear, rational, and quadratic equations). This course is for student entering with one year of high school algebra who are preparing for Essential Mathematics or College Algebra. Does not count towards degree credit requirements, nor general education requirements. Students in this course are expected to have algebraic knowledge equivalent to MA 103 or one year of high school or junior high school algebra.

MA 105 Science Success Strategies (2)

Interdisciplinary class may be taken as CH 100. Develops mathematics and science skills fundamental to science majors. Prerequisite: A grade of "C" or better in MA 104 (or equivalent) or an acceptable (as determined by the Mathematics Department) ACT mathematics score or SAT quantitative score or ACCUPLACER math score.

MA 108 College Algebra Preparation (3)

This course is the first of a two-semester College Algebra sequence. Topics covered include: factoring, equations (linear, quadratic, rational, absolute value, root, linear systems), functions (notation, domain), graphing (linear, quadratic, piece-wise), inequalities (linear, compound, absolute value), applications involving linear, quadratic, and rational equations. Does not count towards degree credit requirements, nor general education requirements. Not open to students with credit in MA 112 or MA 116, or any MA-designated course numbered above MA 116. Students in this course are expected to have algebraic knowledge equivalent to MA 103 or one year of high school or junior high school algebra. Prerequisite: None.

MA 112 Contemporary College Mathematics (3)

This course will focus on the mathematical skills and knowledge required for quantitative literacy, so the topics of understanding numerical relationships, financial mathematics, probability, and data analysis and statistics will be addressed. Each academic year the course will adopt a theme such as the political endeavor, the environment, art and culture and will study the topics from the context of the theme. The course will be project-based and to the extent possible the projects will investigate contemporary issues related to the overarching course theme. In addition to demonstrating mastery of the mathematical content, students will be expected to demonstrate an ability to understand how to determine the appropriate representation of quantitative information and to effectively communicate their assumptions and analysis. This course is not intended to prepare students for calculus. Graphics calculator required. Prerequisite: A grade of A or B in MA 090 or a grade of C or better in MA 104 or an ACT mathematics score of at least 22 or an equivalent background as determined by the Mathematics Department, for example, comparable SAT, COMPASS, or ACCUPLACER score.

(General Ed Natural Science. Quan and Sci Reason Lit.)

MA 116 College Algebra (3)

Equations (linear system, polynomial, rational, absolute value, root, exponential, logarithmic), functions (notation, combining, domain, inverse), graphing (linear, quadratic, polynomial, piece-wise, rational, exponential, logarithmic), inequalities (compound, absolute value, polynomial, rational), logarithmic expressions, applications involving various types of equations and/or systems of equations. Not open to students with credit in MA 117, MA 123, or any course numbered above MA 140. Prerequisite: A grade of "C" or better in MA 104 (or equivalent) or a grade of "A" or "B" in MA 095 or an acceptable (as determined by the Mathematics Department) ACT mathematics score or SAT quantitative score or Compass or Accuplacer Mathematics Placement Test score.

(General Ed Natural Science. Quan and Sci Reason Lit.)

MA 117 Trigonometry (3)

Trigonometric functions, their inverses, graphs, and identities. Solving trigonometric equations. A wide variety of applications, and appropriate use of technology. Graphics calculator required. Prerequisite: A grade of C or better in MA 116 or concurrent with MA 116 or an acceptable (as determined by the Mathematics Department) ACT mathematics score or SAT quantitative score or equivalent knowledge as determined by the Mathematics Department.

(General Ed Natural Science. Quan and Sci Reason Lit.)

MA 123 Pre-Calculus (3)

Algebraic, exponential and trigonometric functions. Topics in plane analytic geometry. Designed for the student preparing for calculus. Not open to students with credit in MA 141 or MA 151. Prerequisite: A grade of "C" or better in MA 116 or MA 117 or an acceptable ACT mathematics score or SAT quantitative score or equivalent knowledge as determined by the Mathematics Department.

(General Ed Natural Science. Quan and Sci Reason Lit.)

MA 131 Topics in Trigonometry and Introduction to Calculus (3)

Trigonometric functions, using right triangles and the unit circle. Trigonometric identities, sinusoidal graphs, and trigonometric applications, including periodic phenomena. Limits, continuity, rates of change, and the meanings of differentiation and integration. Not open to students with credit in MA 141 or MA 151. Prerequisites: MA 116 with a grade of "C" or better or an acceptable ACT mathematics score or SAT quantitative score or equivalent knowledge as determined by the Mathematics Department.

(General Ed Natural Science. Quan and Sci Reason Lit.)

MA 140 Statistics (3)

Introduction to statistics and probability with practical applications. Descriptive techniques including graphical methods, linear regression, probability distributions, sampling distributions, confidence intervals, hypothesis tests. Graphics calculator required. Prerequisite: A grade of "C" or better in either MA 116 or MA 112 or, an acceptable ACT mathematics score or SAT quantitative score or Compass or Accuplacer Mathematics Placement score.

(General Ed Natural Science. Quan and Sci Reason Lit.)

MA 141 Applied Calculus I (3)

Definition and elementary properties of the derivative and definite integral with emphasis on the application of the derivative and integral to problems in business. Not open to student with credit in MA 151.

No more than five hours of credit will be awarded for MA 141 and/or MA 151. Prerequisite: A grade of "C" or better in MA 116 or MA 123 or an acceptable ACT mathematics score or SAT quantitative score or equivalent knowledge as determined by the Mathematics Department.

(General Ed Natural Science. Quan and Sci Reason Lit.)

MA 142 Applied Calculus II (3)

A continuation of MA 141. Elementary differential and integral calculus including the trigonometric functions, techniques of integration and an introduction to multivariable calculus. Applications will be primarily from management and biological sciences. Not open to students with credit in MA 151. Prerequisites: A grade of "C" or better in MA 141 AND a grade of "C" or better in either MA 117 or MA 123 or consent of instructor.

MA 145 Mathematics for Decision Making (3)

This course will introduce students to quantitative methods of decision making used in management, the life and social sciences. Topics covered will include: matrices, linear programming (including the simplex method), probability theory, Markov chains, graph theory, simulation and modeling. Prerequisite: A grade of "C" or better in MA 116 or MA 123 or an acceptable ACT mathematics score or SAT quantitative score or equivalent knowledge as determined by the Mathematics Department.

MA 148 Mathematics of Finance (3)

Interest, annuities, amortization, sinking funds, stocks, bonds. Prerequisite: A grade of "C" or better in MA 116 or MA 123 or an acceptable ACT mathematics score or SAT quantitative score or equivalent knowledge as determined by the Mathematics Department.

MA 151 Calculus & Analytic Geometry I (5)

Differential and integral calculus of the elementary functions with applications. No more than five hours of credit will be awarded for MA 141 and/or MA 151. Prerequisite: A grade of "C" or better in MA 117 or MA 123 or an acceptable ACT mathematics score or SAT quantitative score or equivalent knowledge as determined by the Mathematics Department.

(General Ed Natural Science. Quan and Sci Reason Lit.)

MA 152 Calculus & Analytic Geometry II (5)

A continuation of Mathematics 151. Topics in plane analytical geometry, techniques of integration with applications, and infinite series. Graphics calculator required. Prerequisite: A grade of C or better in MA 151.

MA 200 Number & Operation for Elementary Teachers (3)

Investigation of K-6 mathematical concepts and procedures for counting & cardinality, patterns & algebraic thinking, number systems, operation with whole numbers, fractions, decimals & integers. Significant emphasis on conceptual in-depth understanding of these mathematical topics and connecting concepts to a range of procedures for beginning teachers. Prerequisite: MA112 or higher (or appropriate ACT or SAT quantitative score as determined by the Mathematics Department)

MA 201 Geometry, Proportion & Data Analysis for Elementary Teachers (3)

Investigation of K-6 mathematical concepts and procedures for geometry, measurement, proportional reasoning, and probability & statistics. Significant emphasis on conceptual in-depth understanding of these mathematical topics and connecting concepts to a range of procedures for beginning teachers. Prerequisite: MA200 with a "C" or better.

MA 204 Number Theory and Discrete Math for Middle School and Secondary Teachers (3)

Fundamental ideas of number theory, including divisors, factorization, and modular arithmetic. An introduction to discrete mathematics, including discrete structures, enumeration, logic, and applications. Prerequisite: A grade of "C" or better in MA 151 or MA 230, or consent of instructor.

MA 206 Discrete Mathematics for Computing (3)

Discrete mathematics topics useful in computer-aided problem solving. Topics will include Boolean algebra and computer logic, graphs and trees with algorithms, and analysis of algorithm complexity. Prerequisites: CM 111 and one of the following: A "C" or better in MA 116 or MA 123, or an acceptable (as determined by the Mathematics Department) ACT mathematics score or an acceptable SAT quantitative score, or equivalent knowledge as determined by the Mathematics Department.

MA 207 Discrete Mathematics (3)

Logic, counting methods, induction, functions, equivalence, partial order, and congruence relations. Set up and solve recurrence relations problems. Graph theory and its applications. Significant emphasis on the format and method of mathematical proof. Prerequisite: MA 151 or MA 204 or MA 206, PH 110 or PH 220 or consent of instructor.

MA 228 Mathematics for Elementary and Middle School Educators I (4)

The investigation of mathematical concepts and procedures encountered in grades K-8. Topics include rational numbers and operations, algebraic patterns, number theory, geometry, and measurement. Significant emphasis is placed on conceptual in-depth understanding of these mathematical topics and connecting those concepts to a range of procedures, as needed by beginning teachers. Prerequisite: A grade of "C" or better in MA 112 or higher, or, math ACT score or quantitative SAT score, or Compass Mathematics Placement score or equivalent knowledge as determined by the Mathematics Department.

MA 229 Mathematics for Elementary and Middle School Educators II (3)

The investigation of mathematical concepts and procedures. Topics include Real numbers and operations, data analysis, measurement, introduction to non-Euclidean geometry, and introduction to probability. Significant emphasis is placed on conceptual in-depth understanding of these mathematical topics, connecting those concepts to a range of procedures and mathematics practices, applying the understandings within real world contexts and including appropriate use of technology. Prerequisites: MA 228 with a "C" or better.

MA 230 Math Middle/Secondary Teachers (4)

Standard and non-standard algorithms of numbers (whole, integer, rational, and irrational) using multiple representations with a focus on linking concepts and procedures. Extend understandings to include ratio, rate, and proportions. Two and three-dimensional Euclidean geometry concepts including principles, shape-hierarchies, cross-sections, transformation, congruence, similarity, constructions, and proof. Extend understandings to formula derivation (perimeter, area, and volume) related to two- and three-dimensional objects. Represent abstract mathematical ideas encountered in grades 6-12 using multiple representations including concrete materials. Prerequisite: A grade of "C" or better in MA 116, or appropriate ACT/SAT quantitative score as determined by the Mathematics Department.

MA 253 Calculus/Analytic Geometry III (3)

A continuation of Mathematics 152. Multivariable calculus, vectors in two and three-dimensional spaces. Graphics calculator required. Prerequisite: A grade of "C" or better in MA 152.

MA 271 Contemporary Actuarial Concepts (1)

Current issues in Actuarial Mathematics with emphasis on the releases of the Society of Actuaries. Includes practical application to solving problems of the type included in the Society of Actuary's Course P. Prerequisite: MA 253.

MA 299 Special Topics in Mathematics (1-6)

Directed study in some area of mathematics at the lower division level.

MA 301 Linear Algebra (3)

An introduction to the fundamental concepts and basic computational techniques of linear algebra. Topics investigated from both a theoretical and computational perspective include systems of linear equations, vector spaces, transformations, matrices, eigenvalues and eigenvectors, and orthogonality. Prerequisite: MA 152.

MA 310 Introduction to Operations Research (3)

A study of the techniques and topics that are the foundation of operations research. Topics will include: linear, integer, and dynamic programming, Queuing theory and project scheduling. Prerequisites: CM 111 or CM 170, and MA 142 or MA 151, and MA 145 or MA 301, or consent of instructor.

MA 316 Teaching Algebra (1)

Pedagogical knowledge needed for teaching algebra. Emphasis on fundamental ideas of algebra including algebraic notation; interpreting the structure of an expression in terms of its context; function families and representations; and patterns of change. Includes co-teaching an algebra-based course. Prerequisites: A grade of "C" or better in MA 230 and in either MA 131 or MA 151.

MA 317 Teaching Trigonometry (1)

Pedagogical knowledge needed for teaching trigonometry. Emphasis on fundamental ideas of trigonometry including right triangles, identities, application of periodic phenomena, and trig function families. Includes co-teaching a trigonometry-based course. Prerequisites: A grade of "C" or better in MA 230 and in either: MA 131 or MA 151.

MA 318 Teaching Statistics (1)

Pedagogical knowledge needed for teaching statistics. Emphasis on fundamental ideas of statistics including variability, measures of central tendency, randomness, inference, and multiple representations. Includes co-teaching a statistics-based course. Prerequisites: C or better in MA 140 and in MA 230 and in either MA 131 or MA 151.

MA 320 Mathematics for Middle School Teachers (3)

The investigation of mathematical problems as a means to develop as practitioners of the discipline of mathematics. Problems rely on a wide range of math topics. The primary focus of the course is on developing expertise in doing mathematics. By solving problems, students gain expertise in reasoning, constructing arguments, modeling, using resources, being precise, noticing deep structures of problems & expressing those structures with appropriate mathematical language. Significant emphasis on conceptual understanding of mathematics, connecting concepts to a range of realistic problem situations and appropriate use of technology. Understand and develop mathematical arguments and be able to clearly communicate those arguments using multiple representations. Prerequisite: MA 204 or MA 230 with a grade of "C" or better.

MA 330 Mathematical Models (3)

Mathematical models will be constructed of real situations in biology, economics, social science, or engineering. The mathematical results of these models will be interpreted in the context of the real situation. Models utilizing graph theory are emphasized. Prerequisite: MA 207 or consent of instructor.

MA 331 Differential Equations (3)

Methods for solving ordinary differential equations and systems of ordinary differential equations including Laplace transforms, series, numerical methods with applications. Prerequisite: MA 253 or concurrent.

MA 340 ANOVA/Design of Experiments (3)

An introduction to the design and analysis of experiments, both single and multi-factor. Analysis of variance, both fixed effects and random effects. Topics will include Randomized Complete Block Design, the Latin Square Design, Incomplete Block Designs, Nested Designs, and the Split-Plot Design. Prerequisite: A 'C' or better in MA 140 Statistics.

MA 341 Nonparametric Tests/Quality Control (3)

An introduction to nonparametric statistical procedures including signed-rank tests, sign tests, rank and rank sum tests, along with an introduction to the use of statistical methods for the purpose of quality control, including control charts for variables, control charts for attributes, the analysis of process capability, and acceptance sampling. Prerequisite: A "C" or better in MA 140 Statistics.

MA 342 Statistical Computing (3)

An introduction to the statistical software packages SAS and R that includes basic commands and the structure, as well as data entry and manipulation, creating graphs and plots, simulation, bootstrapping, and introductory level programming. Prerequisite: A "C" or better in MA 140 Statistics.

MA 343 Applied Statistics (3)

Sampling, concepts of experimental design. Tests of significance, point and interval estimation, simple and multiple regression, ANOVA, ANCOVA, non-parametric tests, logistic regression, and quality control. Emphasis on developing statistical thought, not just methodology, and on the use of computing technology. Prerequisite: MA 140 or equivalent, or consent of instructor.

MA 344 Mathematical Statistics I (3)

Probability, random variables and expectation, conditional distributions and stochastic independence, distributions of functions of random variables. Prerequisites: MA 253 or concurrent, and one of MA 340, MA 341 or MA 346.

MA 345 Mathematical Statistics II (3)

An introduction to the theoretical framework of statistical methods including: point and interval estimators, large and small sample theories, hypothesis testing methods, linear statistical models with emphasis on regression and correlation, non-parametric testing methods, brief introduction to Bayesian methods for statistical inference. Prerequisite: MA 344.

MA 346 Regression Analysis (3)

Linear regression and correlation concepts and methods, multiple regression, curvilinear regression, applications including use of statistical software. Prerequisite: MA 140 or MA 343, or consent of course instructor.

MA 347 Stochastic Processes (3)

Generating functions, normal processes and covariance stationary processes, Poisson processes, renewal processes, Markov chains, discrete time processes. Prerequisite: MA 344.

MA 348 Time Series Analysis (3)

Regression models with time series error, autocorrelation function, spectral density, autoregressive and moving average processes, and seasonal time series; applications including use of statistical software. Prerequisites: MA 344 and MA 346.

MA 349 Statistical Topics for Actuarial Science (1)

Emphasis on topics in probability and statistics of special importance to actuarial science students. Prerequisites: MA 343, MA 344 or concurrent.

MA 354 Abstract Algebra (3)

An introduction to abstract algebraic structures and their substructures. Emphasis on groups (including symmetry groups, cyclic groups, and permutation groups), with rings and fields as time allows. Prerequisites: MA 253 and MA 207, or consent of the instructor.

MA 361 Game Design (3)

This course offers students the necessary background to design games on their own, including an introduction to the history of game design in the last 150 years. Students are then guided through an exploration of individual game mechanics which are frequently used in highly successful games. During these explorations the game mechanics are deconstructed to understand their structure using elementary mathematical tools, techniques, and language. While making these connections and observations, students are guided through isolated examples on how to integrate these into a game design. The course culminates with a final project in the form of an original game design of the students' own making – either analogue (physical) or digital. Prerequisite: A grade of "C" or better in MA 112 or MA 116, or consent of instructor.

MA 367 Modern Geometry (3)

This course will focus on the study of geometry as an axiomatic system. Emphasis will be placed on conjecture, proof and construction utilizing both classical tools as well as appropriate technology. Geometries investigated will include Euclidean, affine, projective, hyperbolic, and elliptical. A variety of approaches (synthetic, analytical and transformation) will be used to investigate the geometries. Prerequisite: MA 151.

MA 371 Introduction to Real Analysis I (3)

Sets and functions, properties of the real number system, sequences, limits of functions and continuity of functions. Prerequisites: MA 253 and MA 207, or consent of the instructor.

MA 372 Introduction to Real Analysis II (3)

Continuity, differentiation, the Riemann integral, sequences of functions, and infinite series. Prerequisite: MA 371.

MA 373 Applied Analysis (3)

The algebra, geometry, and calculus of vectors. Fourier expansions, the Laplace transformation. Oriented toward applications in the physical sciences. Prerequisite: MA 253.

MA 374 Intro to Complex Variables (3)

Theory of analytic functions, infinite series, Taylor and Laurent expansions. Prerequisite: MA 253.

MA 376 Numerical Analysis (3)

Solution of algebraic and transcendental equations, numerical differentiation and integration, numerical methods in differential equations and linear algebra. Oriented toward machine computation. Prerequisites: MA 241 and CM 170.

MA 380 Problem Solving Strategies (1)

Weekly problem sets require a wide variety of techniques to achieve solutions to the problems. Problem solutions may feature one or more techniques from calculus, linear algebra, discrete mathematics, statistics, geometry, and other areas. The course is repeatable up to three times. Prerequisite: A grade of "C" or better in MA 152, or consent of the instructor.

MA 381 History and Literature of Mathematics (3)

Chronological development of mathematics, with emphasis on the great mathematicians of yore and periods of mathematical genius and invention. Topics include development of numeration systems, algebra, calculus, proof, Euclidean and non-Euclidean geometry, graphing technology, and philosophies of mathematics. Readings from extant and translations of mathematical text. Prerequisite: MA 151 or consent of instructor.

MA 384 Theory of Interest (3)

Topics include measure of interest (emphasis on continuous nature), accumulated and present value factors, annuities, yield rates, sinking funds, and bonds and related securities. Prerequisite: MA 152 or concurrent.

MA 385 Actuarial Mathematics (3)

Theory and application of contingency mathematics in the area of life and health insurance, annuities and sections from both the probabilistic and deterministic approaches. Prerequisites: MA 344, MA 384 or consent of instructor.

MA 388 Capstone Research (1)

Students must complete an individual semester project on a topic in the mathematical sciences under the guidance of one or more faculty from the department. The project serves as a culminating experience for Bachelor's degree students, requiring both a written and an oral component. A minimum of two hours of MA 380 Problem Solving Strategies are required unless permission is granted by the department Chair. Prerequisites: MA 151, MA 152, MA 253, MA 301, a minimum of two hours of MA 380; and, a total of 19 or more hours in mathematics/statistics (MA 151 or above), at least 6 hours of which must have been completed at Washburn University; and, consent of the instructor. Students must have junior or senior standing to enroll in this course.

MA 390 Seminar (1-3)

Directed study in some advanced area. Prerequisite: Consent of instructor.

MA 400 Internship in Mathematics or Statistics (1-6)

A work experience in the area of mathematics and/or statistics performed in cooperation with a business, industrial, medical or educational institution. The internship study must provide a learning experience in the applications of mathematics or statistics. Prerequisite: Consent of Department Chair.

MA 450 Topics in Mathematics (1-6)

Directed study in some area of mathematics at the graduate level.

Prerequisite: Consent of instructor.

Mathematics, BA-BS

Student Learning Outcomes

- Students will demonstrate the ability to solve a variety of problems in mathematics including calculus, probability and statistics, and linear algebra.
- Students will demonstrate the ability to write mathematical proofs and solve challenging problems both pure and applied.
- Students will demonstrate the ability to communicate mathematics both orally and in writing.
- Students will demonstrate the ability to identify and utilize the appropriate practices and tools, including the use of technology, to solve mathematics problems.

Degree Requirements

Code	Title	Hours
Required Courses		
MA 151	Calculus & Analytic Geometry I	5
MA 152	Calculus & Analytic Geometry II	5
MA 253	Calculus/Analytic Geometry III	3
MA 207	Discrete Mathematics	3
MA 301	Linear Algebra	3
Select one of the following:		3
MA 340	ANOVA/Design of Experiments	
MA 341	Nonparametric Tests/Quality Control	
MA 346	Regression Analysis	
MA 344	Mathematical Statistics I	3
MA 354	Abstract Algebra	3
MA 371	Introduction to Real Analysis I	3
MA 372	Introduction to Real Analysis II	3
MA 380	Problem Solving Strategies ¹	2
MA 388	Capstone Research	1
PH 220	Symbolic Logic	3
Subtotal		40
Correlated Courses ²		
Select one of the following sequences: ³		10-15
<i>Sequence 1</i>		
PS 261 & PS 262	College Physics I and College Physics II	
<i>Sequence 2</i>		
PS 281 & PS 282	General Physics I and General Physics II	
<i>Sequence 3</i>		
EC 200	Principles of Microeconomics	
EC 201	Principles of Macroeconomics	
BU 342	Organization & Management	
BU 347	Production and Operations Management	
<i>Sequence 4</i>		
EC 200	Principles of Microeconomics	
EC 201	Principles of Macroeconomics	

AC 224	Financial Accounting	
AC 225	Managerial Accounting	
BU 381	Business Finance	
Subtotal		10-15
Total Hours		50-55

- ¹ MA 380 is a 1 credit course that must be taken at least twice.
² Approved by the department
³ Or a 5th specially designed sequence to be approved by the Department Chair

For degree specific requirements, see **General Education Requirements for Specific Bachelor & Associate Degrees**.

Actuarial Science Specialization, BA-BS

Student Learning Outcomes

- Students will demonstrate the ability to solve a variety of problems in mathematics including calculus, probability and statistics, and linear algebra.
- Students will demonstrate the ability to write mathematical proofs and solve challenging problems both pure and applied.
- Students will demonstrate the ability to communicate mathematics and statistical results both orally and in writing.
- Students will demonstrate the ability to identify and utilize the appropriate practices and tools, including the use of technology, to solve mathematics problems and perform statistical modeling and analysis of data.

Degree Requirements

Code	Title	Hours
MA 151	Calculus & Analytic Geometry I	5
MA 152	Calculus & Analytic Geometry II	5
MA 253	Calculus/Analytic Geometry III	3
MA 301	Linear Algebra	3
Select one of the following:		3
MA 340	ANOVA/Design of Experiments	
MA 341	Nonparametric Tests/Quality Control	
MA 344	Mathematical Statistics I	3
MA 345	Mathematical Statistics II	3
MA 346	Regression Analysis	3
MA 347	Stochastic Processes	3
MA 348	Time Series Analysis	3
MA 384	Theory of Interest	3
MA 385	Actuarial Mathematics	3
AC 224	Financial Accounting	3
AC 225	Managerial Accounting	3
EC 200	Principles of Microeconomics	3
EC 201	Principles of Macroeconomics	3
BU 374	Principles of Risk and Insurance	3
BU 381	Business Finance	3

BU 483	Investments	3
Total Hours		61

Applied Statistics Specialization, BA-BS

Student Learning Outcomes

- Students will demonstrate the ability to solve a variety of problems in mathematics including calculus, probability and statistics, and linear algebra.
- Students will demonstrate the ability to write mathematically, using proofs and/or statistical analysis, and to solve challenging problems both pure and applied.
- Students will demonstrate the ability to communicate mathematical and statistical results both orally and in writing.
- Students will demonstrate the ability to identify and utilize the appropriate practices and tools, including the use of technology, to solve mathematics problems and perform statistical modeling and analysis of data.

Degree Requirements

Code	Title	Hours
MA 151	Calculus & Analytic Geometry I	5
MA 152	Calculus & Analytic Geometry II	5
MA 253	Calculus/Analytic Geometry III	3
MA 301	Linear Algebra	3
MA 340	ANOVA/Design of Experiments	3
MA 341	Nonparametric Tests/Quality Control	3
MA 342	Statistical Computing	3
MA 344	Mathematical Statistics I	3
MA 345	Mathematical Statistics II	3
MA 346	Regression Analysis	3
MA 347	Stochastic Processes	3
MA 348	Time Series Analysis	3
CM 111	Introduction to Structured Programming	4
CM 245	Contemporary Programming Methods	3
CM 307	Data Structures & Algorithmic Analysis	3
CM 332	Data Mining	3
CM 336	Database Management Systems	3
Total Hours		56

Secondary Mathematics, BA-BEd-BS

Student Learning Outcomes

- Students will demonstrate the ability to solve a variety of problems in mathematics including calculus, probability and statistics, algebra, and geometry.
- Students will demonstrate the ability to write mathematical proofs and solve challenging problems both pure and applied.
- Students will demonstrate the ability to communicate mathematics both orally and in writing.
- Students will demonstrate the ability to identify and utilize the appropriate practices and tools, including the use of technology, to solve mathematics problems.

- Students will demonstrate that they can apply appropriate mathematical practices and tools, including the use of technology, to teaching mathematical concepts, thinking, and content appropriate for secondary students.
- Students will demonstrate the ability to work collaboratively and persistently with peers to solve mathematics problems to develop learner-centered instruction.

Degree Requirements

Code	Title	Hours
MA 140	Statistics	3
MA 151	Calculus & Analytic Geometry I	5
MA 152	Calculus & Analytic Geometry II	5
MA 253	Calculus/Analytic Geometry III	3
MA 204	Number Theory and Discrete Math for Middle School and Secondary Teachers	3
MA 207	Discrete Mathematics	3
MA 230	Math Middle/Secondary Teachers	4
MA 301	Linear Algebra	3
MA 354	Abstract Algebra	3
MA 367	Modern Geometry	3
MA 371	Introduction to Real Analysis I	3
MA 381	History and Literature of Mathematics	3
MA 380	Problem Solving Strategies ¹	2
Select at least two of the following:		2
MA 316	Teaching Algebra	
MA 317	Teaching Trigonometry	
MA 318	Teaching Statistics	
MA 380	Problem Solving Strategies (a third credit hour)	
MA 388	Capstone Research	
Total Hours		45

Students seeking certification to teach mathematics must also be formally admitted to the University's Professional Teacher Education Programs (see **Education** in this catalog) and complete additional coursework.

For degree-specific requirements, see General Education Requirements for Specific Bachelor & Associate Degrees (p. 74).

¹ MA380 is a 1 credit course that must be taken at least twice

Mathematics and Statistics, Minor

Minor Requirements

Students who exercise the optional minor for the Bachelor of Arts degree in mathematics and statistics will fulfill the fifteen hour requirement by taking courses numbered MA 151 Calculus & Analytic Geometry I or above (excluding mathematics education courses MA 204 Number Theory and Discrete Math for Middle School and Secondary Teachers, MA 206 Discrete Mathematics for Computing, MA 228 Mathematics for Elementary and Middle School Educators I, MA 229 Mathematics for Elementary and Middle School Educators II, MA 230 Math Middle/Secondary Teachers, MA 316 Teaching Algebra, MA 317 Teaching Trigonometry, and MA 318 Teaching Statistics). Six of the hours must

be at the upper division level, excluding MA 320 Mathematics for Middle School Teachers and MA 381 History and Literature of Mathematics.

Applied Statistics, Minor

Minor Requirements

Students who exercise the optional minor in applied statistics will fulfill the fifteen hour requirement by taking:

Code	Title	Hours
Select two of the following:		6
MA 340	ANOVA/Design of Experiments	
MA 341	Nonparametric Tests/Quality Control	
MA 346	Regression Analysis	
Select three of the following:		9
MA 342	Statistical Computing	
MA 344	Mathematical Statistics I	
MA 345	Mathematical Statistics II	
MA 347	Stochastic Processes	
MA 348	Time Series Analysis	
MA 385	Actuarial Mathematics	
Total Hours		15

Game Design, Minor

Minor Requirements

Students who exercise the optional minor in game design will fulfill the fifteen hour requirement from among the following classes:

Code	Title	Hours
Required Courses		
Select five courses from the following list, two of which must be either AR 322, CM 390, MA 361, or MM 393:		15
AR 222	Video Game Design ¹	
AR 326	2 & 3-D Digital Animation	
AR 333	Digital Painting and Drawing ²	
BU 260	Business Plan Development	
CM 390	Special Topics/Computer Information Science (Game Programming) ³	
EC 306	Game Theory and Applications ⁴	
MA 361	Game Design ⁵	
MM 393	Special Topics/Mass Media (Visual Storytelling)	
Subtotal		15
Additional Hours		
Additional classes as approved by the advisor of the minor may include:		
HI 300	Topics in History (Ancient Greece)	1-3
HI 300	Topics in History (Medieval Experience)	1-3
HI 300	Topics in History (Pirates of the Caribbean)	1-3
HI 300	Topics in History (Traditional Japan)	1-3
HI 334	Civilization of Ancient Rome	3
EC 200	Principles of Microeconomics ⁵	3
Total Hours		25-33

- ¹ prerequisite AR 120 2D Design: Digital Elements or AR 333 Digital Painting and Drawing
- ² prerequisite AR 120 2D Design: Digital Elements or AR 140 Drawing I
- ³ prerequisite CM 245 Contemporary Programming Methods
- ⁴ prerequisite MA 140 Statistics and MA 141 Applied Calculus I
- ⁵ prerequisite MA 112 Contemporary College Mathematics or MA 116 College Algebra

No more than two classes from a single department will count towards this minor.

Modern Languages

Department of Modern Languages

French, Spanish, other Modern Languages

Website: www.washburn.edu/ml/ (<http://www.washburn.edu/ml/>)

Faculty

Professor Miguel González-Abellás (SP), PhD, Chair
 Professor Courtney Sullivan (FR), PhD
 Assistant Professor Michael O'Brien (SP), PhD
 Senior Lecturer Georgina Tenny (SP), MA
 Lecturer Hélène Perriguy-Keene (FR/SP), MA

Mission

Consistent with the mission of the University, the Department of Modern Languages serves as the main source for studying world cultures in their own languages, thus preparing students to communicate in other languages and be knowledgeable about other cultures, so they can compare and connect their culture to others and become engaged citizens in the global community.

Faculty members and language instructors, trained in humanities and linguistics studies, strive to share their knowledge and understanding of diverse cultures. The department collaborates with many other units, such as Music, History, Business, Education, and the Honors program to offer a vast array of opportunities to students wanting to bridge discipline boundaries. Through study abroad programs, and service opportunities at the local and international level, the department continues to support the mission of the university in developing skilled and informed global citizens.

The department offers a minor in International Studies; majors and minors in French and Spanish; collaborates with the School of Business in their minor in International Business; and also offers a minor with the History Department in Latin American, Caribbean, and Latino/a Studies. It also maintains course offerings in other languages, currently Latin and Japanese.

Thus, the Department aims to serve students who:

1. Major or minor in a foreign modern language;
2. Must fulfill the foreign language proficiency requirement (BA degree);
3. Wish to combine foreign language with a professional program;
4. Plan to teach; and
5. Plan to go on to graduate school.

Student Learning Outcomes

Modern Languages students at Washburn University, upon graduation, are expected to:

- Demonstrate the ability to understand, interpret, discuss, and explain a wide variety of written and oral communications in the target language.
- Illustrate the ability to use with accuracy the grammar, syntax, basic vocabulary and idioms of the target language and compare these usages with English.
- Demonstrate an understanding of the institutions, history, social practices, and artistic and literary tradition(s) of the countries and culture(s) in which the language is spoken in their socio-historical background and/or their cultural significance.
- Demonstrate a functional knowledge of the strategies for independent and continuing learning of the target language.

Placement

Students beginning the study of a modern language who have had no more than 1 to 2 years in high school should enroll in the 101 level. Those who have had 2 years of recent high school modern language instruction with a minimum grade of B are eligible to enroll in a 102 level class. Students with 3 to 4 years of recent high school language with a minimum grade of B may enroll at the 201 level.

On the basis of examination scores and consultation with the student, the department may grant 0, 4 or 8 credit hours for the CEEB Advanced Placement program. Students should request that their examination scores be forwarded to the department chair.

If a student qualifies to enroll at a level higher than the 101, he or she can receive credit for the previous class(es) by departmental examination. In order to do that, the student needs to discuss with the chair or the corresponding faculty member which course(s) he/she wants to challenge, and then follow the procedure mentioned in the Credit by Examination section of this catalog. For example, if a student enrolls in FR 201 Intermediate French I, he/she can receive credit for FR 101 Beginning French I and FR 102 Beginning French II (8 hours in total) by departmental examination. However, in order to qualify, the student needs to do this during his/her first semester at Washburn.

Rules excluding freshmen and sophomores from junior-senior courses (numbered 300 and above) do not apply if the student's preparation warrants placement at the upper division level.

Study Abroad Opportunities

The department offers summer, semester or academic year direct exchange programs in France at the University of Clermont Auvergne in Clermont-Ferrand, in Spain at the University of Cantabria in Santander and at the University of Santiago de Compostela, and in Mexico at the University of Guanajuato, and the University of Monterrey (Magellan Exchange), and in Paraguay at the Universidad Nacional and the Universidad Católica, both in the capital city, Asuncion. Substantial scholarships are available for language majors and minors with a 3.0 GPA.

The Major

Students who plan to major in any of the modern languages offered in the department are encouraged to begin their language studies as soon as they enter Washburn University, and should continue to enroll in at least

one language course each semester until graduation. Learning another language is a cumulative process and any period of time away from the language is highly detrimental to developing and maintaining necessary skills in the language. The department also strongly recommends study for a period of time in a country where the language is spoken (a summer or a semester) as a component of the student's preparation for the major. Substantial scholarships for study abroad are available each year from the department and the International Education Committee. See **International Programs** in this catalog.

Programs

- French, BA (p. 177)
- Spanish, BA (p. 178)
- Licensure K-12, BA (p. 178)
- French or Spanish Minor (p. 178)
- International Business, Minor (<https://catalogedits.washburn.edu/undergraduate/school-business/programs-interest-both-business-majors-non-business-majors/international-business-minor/>)
- International Studies, Minor (p. 179)
- Latin American, Caribbean, and Latino/a Studies, Minor (p. 179)

Course Offerings

French

FR 101 Beginning French I (4)

Introduction to conversation, reading, grammar, and composition. Development of oral/aural skills. Particular emphasis on contemporary culture and social customs in the French-speaking countries. An audiovisual program to develop phonological skills is a component of this course. Offered fall semester only. No prerequisite.

FR 102 Beginning French II (4)

Continuation of French 101. Offered spring semester only. Prerequisite: FR 101 or two years of high school French, or consent of instructor. **(General Ed Humanities. Global Citizenship Ethics Div.)**

FR 105 Intensive Beginning French I & II (8)

Same content as FR 101 and FR 102 but accomplished in one semester of intensive study. Equal emphasis of the development of the four skills – listening, speaking, reading, writing. Class conducted in French, active preparation and participation required. Not open to native speakers of French or students who receive credit in FR 101 and FR 102. Recommended for students who have already had some high school French.

FR 201 Intermediate French I (3)

This course is intended as reinforcement of the 5 skills learned in FR 102: speaking, listening, reading, writing and culture. Offered fall semester only. Prerequisite: FR 102 or 3 years of high school French with B or better.

(General Ed Humanities. Global Citizenship Ethics Div.)

FR 202 Intermediate French II (3)

This course is the continuation of FR 201. Offered spring semester only. Prerequisite: FR 201 or consent of the instructor.

(General Ed Humanities. Global Citizenship Ethics Div.)

FR 207 French Conversation (3)

Vocabulary expansion, stressing everyday practical usage. Development of oral/aural skills in conversations on cross-cultural topics. Stress on traditions and current political/social developments in French-speaking countries. Use of magazines, newspapers, and other topical materials as basis for conversation. Prerequisite: FR 202 or three years of high school French, or consent of instructor.

FR 274 Independent Study (1-3)

Directed study. May be repeated. Prerequisite: Consent of instructor.

FR 290 Study Abroad French Speaking Country (1-15)

Students who are planning to study in a French speaking country should enroll under this number after consultation with their major advisor. Prerequisite: 1st year university-level French (FR 101/FR 102) or equivalent.

FR 295 Faculty Led Program French Speaking Country (1-6)

Students who plan to study French in a French speaking country in a program led by a faculty member at Washburn should enroll in this class. Prerequisite: Consent of Faculty Group Leader.

FR 307 Contemporary French Civilization (3)

This course is an introduction to contemporary France. We will study France through its regions, its politics, and its relations with Europe and the United States. We will look at the different institutions that participate in the construction of identities in France, as well as moments when individuals or groups “disidentify” with the nation. THIS COURSE IS TAUGHT IN ENGLISH. French majors may enroll in this course and use it as an elective if they do not have FR 308 and FR 309.

(General Ed Humanities. Global Citizenship Ethics Div.)

FR 308 French Literature in Translation (3)

This course introduces students to some of the most important French speaking thinkers (writers, poets, and film directors). An emphasis on historical and cultural context will provide students with a better understanding of literary texts and culture. Each course is organized around one theme or question subject to change. Students will enhance their skill of analyzing narrative [literature, films] and gain an understanding of historical and cultural aspects in the modern French-speaking world. Students will work on producing good academic prose, clear and concise essays on novels, plays, poems, films and/or theoretical works studied in class. Selected films in French will be shown with English subtitles. Class will be conducted in English and it is only valid for the major in the language as a correlated course. Prerequisite: Sophomore Standing or Consent of Instructor.

(General Ed Humanities. Global Citizenship Ethics Div.)

FR 309 French Fiction and Films (3)

This class is taught in English and is intended for students who have an interest in French literature and French cinema. This course will include films which are adopted from novels or short stories and students will examine the influence of literature on films. The texts will be translated from the French and the films will be subtitled. No knowledge of French is necessary. French majors may enroll in this course and use it as an elective if they do not have FR 307 and FR 308.

(General Ed Humanities. Global Citizenship Ethics Div.)

FR 311 French Grammar Review (3)

Comprehensive review of French Grammar with emphasis on the development of free composition. Stress on grammatical accuracy, clarity, and the appropriate use of idioms and syntax. Offered fall semester only. Prerequisite: FR 202 or consent of the instructor.

FR 312 French Composition (3)

Development of grammatical accuracy and proficiency in composition. Use of readings to illustrate grammatical points and form the basis for composition and discussion. Offered spring semester only. Prerequisite: FR 311 or consent of the instructor.

FR 315 Translation (3)

French-English and English-French translation of a variety of texts. Focus on techniques of translation and improving French grammar, syntax and idioms. Prerequisite: FR 312 or consent of instructor.

FR 320 French Phonetics (3)

Systematic study of the sound system of the French language meant for the student of French who wants to improve his/her pronunciation and learn how the sounds are formed. Prerequisite: FR 312 or consent of instructor.

FR 321 French for Business (3)

This course is meant for the student of French who already has a good command of written and oral French and who wants to acquire vocabulary of the business world. Topics such as banking, insurance, transportation are covered in the course. Prerequisite: FR 312 or consent of instructor.

FR 324 French Civilization (3)

A systematic study of France from its beginning to the present from a historical and social perspective. Prerequisite: FR 312 or consent of instructor.

FR 326 La France Contemporaine (3)

Readings from contemporary sources, including magazines and newspapers for discussion and composition. Prerequisite: FR 312 or consent of instructor.

FR 331 Introduction to French Literature (3)

Analysis of selected texts from various genres, poetry, theatre and novels. Emphasis on Explication de textes. Prerequisite: FR 312 or consent of instructor.

FR 350 Masterpieces of French Literature (3)

Readings of unabridged works from the Middle Ages through the 19th century. Written and oral discussion of the literary significance of the works, as well as their socio-historical background. Prerequisite: FR 312 or consent of instructor.

FR 353 Survey of 20th Century French Literature (3)

Readings of 20th century unabridged novels, plays, and poetry. Written and oral discussion of the literary significance of the works, as well as their socio-historical background. Prerequisite: FR 312 or consent of instructor.

FR 374 Independent Study (1-3)

Directed study. May be repeated. Prerequisite: Consent of instructor.

FR 375 French Seminar (3)

Application of the techniques of literary analysis to particular authors or literary movements. May be repeated. Prerequisite: Consent of instructor.

FR 390 Study Abroad French Speaking Country (1-15)

Students who are planning to study in a French speaking country should enroll under this number after consultation with their major advisor. Prerequisite: 2nd year university-level French (FR 201/FR 202) or equivalent.

FR 395 Faculty Led Program French Speaking Country (1-6)

Students who plan to study French in a French speaking country in a program led by a faculty member at Washburn should enroll in this class. Prerequisite: Consent of Faculty Group Leader.

FR 399 Special Topics/French (3)

Study of individual authors or literary topics. May be repeated. See chairperson and/or schedule for current offerings. Prerequisite: Consent of instructor.

FR 400 Senior Thesis (3-6)

A major research project culminating in a thesis which deals with a literary topic, or other topics as approved by the thesis director. May be presented to the departmental faculty for consideration for departmental honors. Prerequisite: Senior standing.

German**GE 101 Beginning German I (4)**

Introduction to conversation, reading, grammar, and composition. Development of oral/aural skills. Particular emphasis on contemporary culture and social customs in the German-speaking countries. An audiovisual program to develop phonological skills is a component of this course. Offered fall semester only. No prerequisite.

GE 102 Beginning German II (4)

Continuation of German 101. Offered spring semester only. Prerequisite: GE 101 or two years of high school German, or consent of instructor. (General Ed Humanities. Global Citizenship Ethics Div.)

GE 105 Intensive Begin German I & II (8)

Same content as GE101 and GE102 but accomplished in one semester of intensive study. Equal emphasis on the development of the four skills – listening, speaking, reading, writing. Class conducted in German, active preparation and participation required. Not open to native speakers of German or students who receive credit in GE 101 and GE 102. Recommended for students who have already had some high school German.

GE 201 Intermediate German I (3)

This course is intended as reinforcement of the 5 skills learned in GE 102: speaking, listening, reading, writing and culture. Offered fall semester only. Prerequisite: GE 102 or 3 years of high school German with B or better.

(General Ed Humanities. Global Citizenship Ethics Div.)

GE 202 Intermediate German II (3)

This course is the continuation of GE 201. Offered spring semester only. Prerequisite: GE 201 or consent of the instructor.

(General Ed Humanities. Global Citizenship Ethics Div.)

GE 207 Basic German Conversation (3)

Vocabulary expansion, stressing everyday practical usage. Development of oral/aural skills in conversations on cross-cultural topics. Stress on traditions and current political/ social developments in German-speaking countries. Use of magazines, newspapers, and other topical materials as basis for conversation. Prerequisite: GE 202, two years of high school German or consent of instructor.

GE 214 German Reading & Conversation (3)

Prose and poetry selected from German literature, folk culture and public media form the topics for conversation. Prerequisite: GE 202 or consent of instructor.

GE 274 Independent Study (1-3)

Directed study. May be repeated. Prerequisite: Consent of instructor.

GE 290 Study Abroad German Spkg Cntry (1-15)

Students who are planning to study in a German speaking country must enroll under this number after consultation with their major advisor. Prerequisite: 1st year university-level German (GE 101 - GE 102) or equivalent.

GE 295 Fac Led Prog German Spkg Cntry (1-6)

Students who plan to study German in a German speaking country in a program led by a faculty member at Washburn should enroll in this class. Prerequisite: Consent of Faculty Group Leader.

GE 307 Contemp German Civilization (3)

This course is an introduction to contemporary Germany. We will study Germany through its regions, its cultural diversity, its politics, and its relations with Europe and the United States. We will look at the various factors which have impacted modern German life as represented through literature, art, music, and pop culture. THIS COURSE IS TAUGHT IN ENGLISH. German majors may enroll in this course as an elective if they do not have GE 308.

(General Ed Humanities. Global Citizenship Ethics Div.)

GE 308 German Lit in Translation (3)

This course introduces students to some of the most important German speaking thinkers (writers, poets, and film directors). An emphasis on the historical and cultural context will provide students with a better understanding of literary texts and culture. Each course is organized around one theme or question subject to change. Students will enhance their skill of analyzing narrative [literature, films] and gain an understanding of historical and cultural aspects in the modern German-speaking world. Students will work on producing good academic prose, clear and concise essays on novels, plays, poems, films and/or theoretical works studied in class. Selected films in German will be shown with English subtitles. Class will be conducted in English and it is only valid for the major in the language as a correlated course. Prerequisite: Sophomore Standing or Consent of Instructor.

(General Ed Humanities. Global Citizenship Ethics Div.)

GE 311 German Grammar Review (3)

Comprehensive review of German grammar with emphasis on the development of free composition. Stress on grammatical accuracy, clarity, and the appropriate use of idioms and syntax. Readings illustrate grammatical points and form the basis for composition and discussion. Offered fall semester only. Prerequisite: GE 202 or consent of instructor.

GE 312 Contemporary Written German (3)

Readings from contemporary sources, including magazines, newspapers, and literature form basis for discussion and composition. Development of written style as well as grammatical accuracy and the proper use of idioms. Offered spring semester only. Prerequisite: GE 311 or consent of instructor.

GE 315 Translation (3)

German-English and English-German translation of texts from diverse areas. Focus on techniques of translating German prose texts and improving German grammar, syntax and the use of idioms. Prerequisite: GE 311 or consent of instructor.

GE 321 Business German (3)

Introduction to concepts, vocabulary and language practices basic to doing business with German-speaking people. This course will include components to tie abstract concepts to realities of international business in Kansas. Prerequisite: GE 312 or consent of instructor.

GE 324 German Civilization (3)

Study of geography, the visual arts, architecture, music, literature, the economy, customs, and politics from a historical perspective in order to understand present conditions in German-speaking countries. This course will examine these aspects of German civilization from its beginning to the middle of the twentieth century. Prerequisite: GE 312 or consent of instructor.

GE 326 Contemp German/Austrian Civil. (3)

Continuation of GE 324; deals with the politics, the economy, the social structures, the arts and the geography of these countries from the mid-twentieth century to the present. Prerequisite: GE 312 or consent of instructor.

GE 331 Intro to German Literature (3)

Reading of selected works from various genres, including poetry, theater, and narrative prose fiction, with an emphasis on literary analysis. Prerequisite: GE 312 or consent of instructor.

GE 350 Masterpieces of German Lit (3)

Readings of unabridged works from the Middle-Ages through the 19th century. Written and oral discussion of the works as well as their socio-historical background. Prerequisite: GE 312 or consent of instructor.

GE 353 German Lit of the 20th C. (3)

Readings of modern unabridged novels, plays, short stories and poetry. Written and oral discussion of the literary significance of the works as well as their sociohistorical background. Prerequisite: GE 312 or consent of instructor.

GE 374 Independent Study (1-3)

Directed study. May be repeated. Prerequisite: Consent of instructor.

GE 375 German Seminar (1-3)

Application of the techniques of literary analysis to particular authors or literary movements. May be repeated. Prerequisite: Consent of instructor.

GE 390 Study Abroad German Spkg Cntry (1-15)

Students who are planning to study in a German speaking country should enroll under this number after consultation with their major advisor. Prerequisite: 2nd year university-level German (GE 201 - GE 202) or equivalent.

GE 395 Fac Led Prog German Spkg Cntry (1-6)

Students who plan to study German in a German speaking country in a program led by a faculty member at Washburn should enroll in this class. Prerequisite: Consent of Faculty Group Leader.

GE 399 Special Topics/German (1-3)

Study of individual authors or topics. May be repeated. See chairperson and/or schedule for current offerings. Prerequisite: Consent of instructor.

GE 400 Senior Thesis (3-6)

A major research project culminating in a thesis which deals with a literary topic, or other topics as approved by the thesis director. May be presented to the departmental faculty for consideration for departmental honors. Prerequisite: Senior standing.

Spanish

SP 101 Beginning Spanish I (4)

Introduction to conversation, reading, grammar, and composition. Development of oral/aural skills. Particular emphasis on contemporary culture and social customs in the Spanish-speaking world. An audiovisual program to develop phonological skills is a component of this course. No prerequisite.

SP 102 Beginning Spanish II (4)

Continuation of Spanish 101. Prerequisite: SP 101 or two years of high school Spanish, or consent of instructor.

(General Ed Humanities. Global Citizenship Ethics Div.)

SP 105 Intensive Beginning Spanish I & II (8)

Same content as SP 101 and SP 102 but accomplished in one semester of intensive study. Not open to native speakers of Spanish or students who received credit for SP 101 or SP 102. Recommended for students who have already had some high school Spanish.

SP 201 Intermediate Spanish I (3)

This course is intended as reinforcement of the 5 skills learned in SP 102: speaking, listening, reading, writing and culture. Offered fall semester only. Prerequisite: SP 102 or 3 years of high school Spanish with B or better.

(General Ed Humanities. Global Citizenship Ethics Div.)

SP 202 Intermediate Spanish II (3)

This course is the continuation of SP 201. Offered spring semester only. Prerequisite: SP 201 or consent of the instructor.

(General Ed Humanities. Global Citizenship Ethics Div.)

SP 207 Basic Spanish Conversation (3)

Development of oral skills with emphasis on practical vocabulary. Use of magazines, newspapers, and other topical materials as basis for conversation. Offered fall semester only. Prerequisite: SP 202 or two years of high school Spanish, or consent of instructor.

SP 274 Independent Study (1-3)

Directed study. May be repeated. Prerequisite: Consent of instructor.

SP 290 Study Abroad Spanish Speaking Country (1-15)

Students who are planning to study in a Spanish speaking country should enroll under this number after consultation with their major advisor. Prerequisite: 1 year of university-level Spanish (SP 101/SP 102) or equivalent.

SP 295 Faculty Led Program Spanish Speaking Country (0-6)

Students who plan to study Spanish in a Spanish speaking country in a program led by a faculty member at Washburn should enroll in this class. Prerequisite: Consent of Faculty Group Leader.

SP 307 Contemporary Hispanic Culture (3)

This course explores the diversity and complexity of the Spanish-speaking world through its geography, history, politics, and cultural manifestations. Through the study of different media, the course examines how culture interprets and shapes the identity of Hispanic countries. THIS COURSE IS TAUGHT IN ENGLISH. Spanish majors may enroll in this course and use it as an elective if not counting SP 308. Prerequisite: Sophomore status.

(General Ed Humanities. Global Citizenship Ethics Div.)

SP 308 Hispanic Narrative in Translation (3)

This course introduces students to some of the most important Hispanic speaking thinkers (writers, poets, and film directors). An emphasis on the historical and cultural context will provide students with a better understanding of literary texts and culture. Each course is organized around one theme or question subject to change. Students will enhance their skill of analyzing narrative [literature, films] and gain an understanding of historical and cultural aspects in the modern Spanish-speaking world. Students will work on producing good academic prose, clear and concise essays on novels, plays, poems, films and/or theoretical works studied in class. Selected films in Spanish will be shown with English subtitles. Class will be conducted in English and it is only valid for the major in the language as a correlated course. Prerequisite: Sophomore Standing or Consent of Instructor.

(General Ed Humanities. Global Citizenship Ethics Div.)

SP 311 Spanish Grammar Review (3)

Comprehensive review of Spanish grammar with emphasis on the development of free composition. Grammatical accuracy, clarity, and the appropriate use of idioms and syntax are stressed. Offered fall semester only. Prerequisite: SP 202 or consent of instructor.

SP 312 Spanish Composition (3)

Development of grammatical accuracy and proficiency in composition. Use of readings to illustrate grammatical points and form the basis for composition and discussion. Offered spring semester only. Prerequisite: SP 311 or consent of instructor.

SP 315 Translation (3)

Spanish-English and English-Spanish translation of a variety of texts. Focus on techniques of translation and improving Spanish grammar, syntax and idioms. Prerequisite: SP 311 or consent of instructor.

SP 321 Spanish for Business (3)

Upper-level Spanish course applied to the world of business from a Hispanic cultural perspective, focusing on grammar review, vocabulary, cultural protocols and business concepts. Prerequisite: SP 312 or consent of instructor.

SP 324 Civilization of Spain (3)

Oral and written treatment of geography, history, art, economy, and customs in order to understand present conditions in this country. Use of multimedia resources. Prerequisite: SP 312 or consent of instructor.

SP 325 Civilization of Mexico (3)

Oral and written treatment of geography, history, art, economy, and customs in order to understand present conditions in this country. Use of multimedia resources. Prerequisite: SP 312 or consent of instructor.

SP 326 Civilization of Latin America (3)

Oral and written treatment of geography, history, art, economy, and customs in order to understand present conditions in this area of the world. Use of multimedia resources. Prerequisite: SP 312 or consent of instructor.

SP 331 Introduction to Hispanic Literature (3)

Intensive readings in modern Hispanic literature to give students critical methods for dealing with Hispanic literary genres. Prerequisite: SP 312 or consent of instructor.

SP 340 History/Literature Latin America (3)

This course focuses on the relationship between history and literature in modern Latin America. Through the study of novels, poetry, film, and other genres the course examines how authors use literature to interpret the meaning of history and society as well as moments in which literature became part of the historical process. THIS COURSE IS TAUGHT IN ENGLISH. Students majoring in Spanish can take the course for Spanish credit if they do the readings, write papers, and take tests in Spanish. Prerequisite: SP 312 or consent of instructor.

SP 350 Spanish Literature through the 19th Century (3)

Readings of unabridged works from the Middle Ages through the 19th century. Written and oral discussion of the literary significance of the works, as well as their sociohistorical background. Prerequisite: SP 312 or consent of instructor.

SP 353 Twentieth Century Spanish Peninsular Literature (3)

Readings and discussion of unabridged novels and plays as well as short stories and poetry of modern writers. Focus on the expression of contemporary problems and aspirations. Prerequisite: SP 312 or consent of instructor.

SP 370 Latin American Literature through the 19th Century (3)

Readings and discussion of unabridged novels, short stories, plays and poetry of Latin American writers from Pre-Hispanic to 19th century Latin America. Focus on how the past has shaped the contemporary traditions. The class will include discussion of modern adaptations of classic works (i.e., movies). Prerequisite: SP 312 or consent of instructor.

SP 372 Twentieth Century Latin American Literature (3)

Readings and discussion of unabridged novels, plays, short stories, and poetry of modern writers. Focus on the expression of contemporary problems and aspirations. Prerequisite: SP 312 or consent of instructor.

SP 374 Independent Study (1-3)

Directed study. May be repeated. Prerequisite: Consent of instructor.

SP 375 Spanish Seminar (3)

Application of the techniques of literary analysis to particular authors or literary movements. May be repeated. Prerequisite: Consent of instructor.

SP 380 Hispanic Culture thru Film (3)

This course is an introductory survey of the history of Hispanic film, and how film reflects and shapes Hispanic history, culture, and society. The course can focus on a particular Spanish-speaking country. Special attention will be paid to the study of significant movies, stars and directors, as well as the basics of critical language needed to talk and write about a film. Prerequisite: SP 312 or consent of instructor.

(General Ed Humanities. Global Citizenship Ethics Div.)

SP 390 Study Abroad Spanish Speaking Country (1-15)

Students who are planning to study in a Spanish speaking country should enroll under this number after consultation with their major advisor. Prerequisite: 2nd year of university-level Spanish (SP 201/SP 202) or equivalent.

SP 395 Faculty Led Program Spanish Speaking Country (0-6)

Students who plan to study Spanish in a Spanish speaking country in a program led by a faculty member at Washburn should enroll in this class. Prerequisite: Consent of Faculty Group Leader.

SP 399 Special Topics/Spanish (3)

Study of individual authors or literary topics. May be repeated. See chairperson and/or schedule for current offerings. Prerequisite: Consent of instructor.

SP 400 Senior Thesis (3-6)

A major research project culminating in a thesis which deals with a literary topic, or other topics as approved by the thesis director. May be presented to the departmental faculty for consideration for departmental honors. Prerequisite: Senior standing.

Foreign Languages (Non-major and FL Courses)**FL 100 Specified Topics (2-4)**

Custom designed curriculum for elementary-level training in foreign language.

FL 101 Beginning Foreign Language I (4)

Introduction to conversation, reading, grammar and composition in foreign languages not regularly offered. Development of aural/oral skills and emphasis on contemporary culture and social customs of the language area.

FL 102 Beginning Foreign Language II (4)

Continuation of FL 101. Prerequisite: FL 101 or consent of instructor.

(General Ed Humanities. Global Citizenship Ethics Div.)

FL 190 Study Abroad in a Non-Program Language (1-12)

Students who are planning to study abroad in a country whose language is not offered in a Washburn University program must use this course to transfer their credits.

FL 200 Specified Topics/Foreign Language (3)

Continuation in the specified topic of FL 100. Prerequisite: FL 100.

FL 201 Intermediate Foreign Language I (3)

This course is intended as reinforcement of the 5 skills learned in FL 102: speaking, listening, reading, writing, and culture. This course is the continuation of FL 102.

FL 202 Intermediate Foreign Language II (3)

This course is the continuation of FL 201.

FL 207 Conversation (3)

Vocabulary expansion, stressing everyday practical usage. Development of oral/aural skills on cross-cultural topics. Stress on tradition and current political/social developments. May be repeated for credit when the language studied is different. Prerequisite: Consent of Instructor.

FL 209 Reading & Conversation (3)

Development of oral/aural proficiency through the reading of short literary works as a basis for discussion. Comparison between materials read and life patterns in order to understand a different cultural heritage. May be repeated for credit when the language studied is different. Prerequisite: FL 207

FL 290 Study Abroad in a Non-Program Language (1-12)

Students who are planning to study abroad in a country whose language is not offered in a Washburn University program must use this course to transfer their credits back. Prerequisite: 1st year of college level coursework in the target language.

FL 399 Spec. Tpcs in Frgn Lit/Clt (3)

FL399 Special Topics in Foreign Literature or culture: Study of individual authors, literary and/or cultural topics. May be repeated. Prerequisite: Consent of instructor.

Japanese**JP 101 Beginning Japanese I (4)**

Introduction to conversation, reading, writing, grammar and composition. Development of oral/aural skills. Particular emphasis on contemporary culture and social customs in Japan. A CD Rom program to develop phonological skills is a component of this course. Offered fall semester only. No prerequisite.

JP 102 Beginning Japanese II (4)

Continuation of Japanese I. Offered spring semester only. Prerequisite: JP 101 or consent of instructor.

(General Ed Humanities. Global Citizenship Ethics Div.)

JP 201 Intermediate Japanese I (3)

This course is intended as reinforcement of the 5 skills learned in JP 102: speaking, listening, reading, writing and culture. This course is the continuation of JP 102.

(General Ed Humanities. Global Citizenship Ethics Div.)

JP 202 Intermediate Japanese II (3)

This course is a continuation of JP 201.

(General Ed Humanities. Global Citizenship Ethics Div.)

French, BA**Degree Requirements**

In order to major in French students must complete 30 hours of course work beyond courses numbered at the 100 level. The 30 hours of course work must include:

Code	Title	Hours
FR 311	French Grammar Review	3
FR 312	French Composition	3
FR 331	Introduction to French Literature	3

FR 400	Senior Thesis	3-6
Upper division course work		3

Required for majors planning to teach:

Code	Title	Hours
FR 324	French Civilization	3
FR 326	La France Contemporaine	3
ED 368	Methods of Teaching Foreign Language	3

Nine hours of correlated course work are required of all modern language majors. These courses are selected in consultation with an advisor.

All majors are required to present a portfolio upon graduation. The portfolio will contain three significant papers and a video recorded public presentation in front of professors.

Three significant papers: One of the essays must be the senior thesis, the other from the literature requirement (FR 331 Introduction to French Literature/SP 331 Introduction to Hispanic Literature) and the third one preferably from a cultural course, either on campus or taken abroad. If that's not possible, discuss with the advisor what essay should be included.

The student will give an oral presentation of the senior thesis, not to exceed 15 minutes, summarizing what's in the thesis. The student may use as much or as little technology as he/she wishes, keeping in mind that the presentation may **not** be read; it should be delivered in a comfortable, yet professional manner. The presentation will be recorded. After the presentation, there will be a question and answer session by faculty members present.

Transfer students and students desiring validation of foreign language competencies for teaching certification normally must take a minimum of 6 hours in the target language at the 300-level at Washburn.

Students whose native language is one of those taught by the department may not enroll in or challenge 100 and 200 level courses by examination.

Spanish, BA

Degree Requirements

In order to major in Spanish students must complete 30 hours of course work beyond courses numbered at the 100 level. The 30 hours of course work must include:

Code	Title	Hours
SP 311	Spanish Grammar Review	3
SP 312	Spanish Composition	3
SP 331	Introduction to Hispanic Literature	3
SP 400	Senior Thesis	3-6
Upper division course work		3

Required for majors planning to teach:

Code	Title	Hours
SP 324	Civilization of Spain	3
SP 325 or SP 326	Civilization of Mexico Civilization of Latin America	3

SP 331	Introduction to Hispanic Literature	3
ED 368	Methods of Teaching Foreign Language	3

Nine hours of correlated course work are required of all modern language majors. These courses are selected in consultation with an advisor.

All majors are required to present a portfolio upon graduation. The portfolio will contain three significant papers and a video recorded public presentation in front of professors.

Three significant papers: One of the essays must be the senior thesis, the other from the literature requirement (FR 331 Introduction to French Literature/SP 331 Introduction to Hispanic Literature) and the third one preferably from a cultural course, either on campus or taken abroad. If that's not possible, discuss with the advisor what essay should be included.

The student will give an oral presentation of the Senior Thesis, not to exceed 15 minutes, summarizing what's in the thesis. The student may use as much or as little technology as he/she wishes, keeping in mind that the presentation may **not** be read; it should be delivered in a comfortable, yet professional manner. The presentation will be recorded. After the presentation, there will be a question and answer session by faculty members present.

Transfer students and students desiring validation of foreign language competencies for teaching certification normally must take a minimum of 6 hours in the target language at the 300-level at Washburn.

Students whose native language is one of those taught by the department may not enroll in or challenge 100 and 200 level courses by examination.

Foreign Language Licensure K-12, BA Licensure to Teach

The department regularly prepares students to meet state licensure requirements for teaching grades P-12. In addition to the usual requirements of the department, all students planning to teach must take ED 368 Methods of Teaching Foreign Language and be formally admitted to the University's Professional Teacher Education Programs. For admission requirements, see **Education** in this catalog.

French or Spanish Minor Minor Requirements

A minor in French or Spanish requires 18 hours of course work beyond the 100 level, with at least 6 hours at the upper division level (taught in the minor language). Check with your advisor for further details.

International Business, Minor Minor Requirements

The Minor in International Business provides students with the opportunity to gain an understanding of the special considerations and implications of operating a business in a global environment. Students completing the minor will have an introduction to the basic economics, management, and marketing principles as applied by business today. Students will be exposed to the language and operation of business in

a multinational and national environment. For more information, see the "School of Business (p. 291)" section of this catalog.

International Studies, Minor

Minor Requirements

The curriculum for the Minor in International Studies consists of three components: a foreign language, study abroad and course work. The specific requirements are as follows:

Modern Language Requirement

A minimum of 9 credit hours of a modern language beyond the 100 level, or demonstrate proficiency in a language other than English at the advanced level (e.g., living and studying in another language through high school). International students educated in their countries through high school in a language other than English will meet this requirement with their courses in English at Washburn.

Study Abroad Requirement

Participation in at least a summer long study abroad program (four weeks minimum) in the country of the language studied. For international students, enrollment in at least 12 hours for a full semester will meet this requirement.

Course Work Requirement

A minimum of 12 hours of course work chosen from the following collaborative departments: English, History, Art, Political Science, Religion, Philosophy, Anthropology and Sociology, Mass Media and the School of Business. The courses identified should focus on international topics. They should be chosen in consultation with an advisor in the Department of Modern Languages.

Latin American, Caribbean, and Latino/a Studies, Minor

This minor is constructed around the premise that broader understanding of the issues facing Latin America, the Caribbean and the Latino/a population today is crucial in the global community. The minor is also constructed around the second premise that nations do not exist in isolation. Interaction and interdependence shaped nations in the Western hemisphere in the past, do so in the present, and will continue to do so in the future. For more information, contact the minor director, Dr. Kim Morse, in the History Department and check the "Interdisciplinary Academic Programs (p. 44)" in this catalog.

Museum and Curatorial Studies

Washburn University Museum and Curatorial Studies is an interdisciplinary program that examines the practices associated with the collection, analysis, and exhibition of art, artifacts, specimens, and interpretive displays for the purpose of preservation, interpretation, and public engagement. It also considers the practices associated with the governance, administration, and responsible fiscal management as well as the dynamic role museums, galleries, and collecting play in history and culture. For more information, contact the minor director, Connie Gibbons, in the Mulvane Art Museum and see the "Interdisciplinary Academic Programs (p. 44)" section in the catalog.

Music

Department of Music

Website: www.washburn.edu/music (<http://www.washburn.edu/music/>)

Faculty

Associate Professor Craig Treinen, PhD, Chair
 Professor Rebecca Meador, DMA
 Professor Tom Morgan, DMA
 Assistant Professor Sheri Cook-Cunningham, PhD
 Assistant Professor Silas Huff, PhD
 Assistant Professor Tom Seddon, DMA
 Lecturer Von Hansen, DMA
 Lecturer Bill McKemy, MA
 Lecturer Lara Brooks, DMA
 Lecturer Zsolt Eder, DMA
 Lecturer Kelly Huff, PhD
 Lecturer Erinn Renyer, MM

Mission

Consistent with the mission of the University and the College of Arts and Sciences, the Department of Music is dedicated to sharing a personal commitment to musical excellence as exemplified in creative activities, research, teaching, and public performances contributing to the expansion of knowledge in the field of music. This personal commitment to our students encourages them to think creatively, speak effectively, and write critically. Through musical performances and sponsorship of musical activities, the Music Department strives to enrich the cultural, aesthetic and creative life of the university, the community, the region and the nation.

Desirable Student Attributes

Music students at Washburn University, upon graduation, should have developed: a personal lifelong commitment to the art of music; an understanding of the importance of being involved in local, state, and national music and arts organizations; skills in pursuing a variety of music professions, and the capacity to provide cultural enrichment through music performance for university, community, state, national and international venues.

Student Learning Outcomes

Music students at Washburn University, upon graduation, are expected to have:

- Demonstrated music performance skills (think creatively; present effectively).
- Demonstrated the ability to read and write music.
- Demonstrated the ability to analyze and describe music.
- Demonstrated listening skills in music (write critically; research skills).
- In addition to the above, Music Education students are expected to have demonstrated skills in teaching music.

Department of Music

The Department of Music is a unit of the College of Arts and Sciences in the Division of Creative and Performing Arts. Our Mission Statement provides a window through which the Music Department views its efforts in teaching, scholarship, performance, research, and service. As a department dedicated to presenting its accomplishments to the public,

the Music Department plays a unique role in promoting and enhancing the image and prestige of the University.

The Music Department prepares individuals for careers and further study in the field of music while promoting a lifetime of continuous learning and appreciation for music. Music courses in the Fine Arts are a vital part of the General Education program, which is the foundation for all undergraduate degrees. In addition, non-majors have the opportunity to experience music making through their participation in performance ensembles and/or private instruction. Students and members of the larger community may enhance their appreciation and enjoyment of music by attending live performances sponsored by the Department.

The Music Department is fully accredited by the National Association of Schools of Music (NASM), the Kansas Department of Education (KSDE), and the Council for the Accreditation of Educator Preparation (CAEP). The Department of Music utilizes the review and self-assessment required by these accrediting associations to achieve continuous improvement and accountability for its various programs.

Admittance to Music Major Status

All students must audition to be accepted into "Music Major" or "Licensure only" status in the Department of Music. Failure to audition prior to the 7th day of regularly scheduled classes will result in automatic "non-major" status. Incoming students who are accepted into music major status are immediately placed under music faculty advisement. Students accepted for "Licensure" will be required to complete all requirements for the Music Education degree as per the results of a transcript analysis. In addition, all "Licensure" students must perform a conducting audition prior to being admitted to the program.

Private Lessons (1-3 hours) and Performance Class (0 Credit)

Only Music Performance majors may enroll for 3 hours. Non-majors must pay an additional fee to enroll in private lessons. The extra fee is equivalent to the current resident undergraduate hour tuition rate for each hour they enroll. All Music Majors must enroll in MU 070A Performance Class and all Music Minors must enroll in MU 070B Performance Class every semester that they are enrolled in private lessons in their concentration area. All students who enroll in private lessons must present a performance jury after each semester of study. Accompanists are required for each semester jury. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

Membership in Large Ensemble

All Bachelor of Arts and Bachelor of Music candidates are required to participate in two large ensembles (Washburn Choir; Washburn Singers; Women's Chorus; Washburn Orchestra; Washburn String Orchestra; Collaborative Piano; Washburn Wind Ensemble; University Band; Marching Band; Jazz Orchestra or Concert Jazz Ensemble) each semester of full-time enrollment. For large ensemble requirements particular to each instrument, please consult the online Music Department Handbook (www.washburn.edu/music-handbook (<http://www.washburn.edu/music-handbook/>)).

Non-Music Majors

Music courses in the Fine Arts are a vital part of the General Education program which is the foundation for all the University's undergraduate degrees (please note the music courses which have been approved for General Education Credit). In addition, non-majors may also enroll in

performance ensembles and private lessons with the consent of the instructor. Private lessons are not available for auditors.

Programs

- Music, BA (p. 186)
- Bachelor of Music (p. 187)
 - Music Education, BM (p. 188)
 - Music Performance, BM (p. 190)
- Bachelor of Musical Arts (p. 194)
- Music, Minor (p. 195)
- Jazz Studies (Vocal or Instrumental), Minor (p. 195)

Course Offerings

MU 100 Enjoyment of Music (3)

The materials and structure of music, as they relate to perceptive listening and increased listening enjoyment. Frequent use of recordings and lecture recitals places the course on a plane of practical appreciation. Planned primarily for non-music majors. No prerequisite. (General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

MU 103 Jazz History (3)

The materials and structure of jazz music with an emphasis on listening skills. Includes New Orleans, Chicago, Swing, Bop, Free-form and Fusion styles. Frequent use of recordings and live demonstration and performance. No prerequisite.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

MU 104 Movies & Music (3)

An exploration of the role of music in motion pictures and the relationship between music and other aspects of the film medium. No prerequisite.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

MU 106 Introduction to World Music and its History (3)

A survey of music from cultures around the world from musical and anthropological perspectives. *This course has been approved as a multi-cultural course by the Department of Education. No prerequisite.

(General Ed Creative Performing, General Ed Humanities. Global Citizenship Ethics Div.)

MU 108 History of American Rock & Roll (3)

In this course students will study the origins of American rock and roll music from its early roots to current genres. The focus will be on how the development of rock and roll continues to intersect with the social, economic, and cultural trends of popular culture.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

MU 109 Piano for Beginners I (2)

Development of basic piano techniques, sight reading, improvisation, transposition, and keyboard harmony. Planned for non-music majors. No prerequisite.

MU 110 Piano for Beginners II (2)

Development of basic piano techniques, sight reading, improvisation, transposition, & keyboard harmony. Planned for non-music majors. Prerequisite: Consent of instructor.

MU 111 Guitar for Beginners (2)

Designed to acquaint the beginner with basic chords and accompanying techniques. No prerequisite.

MU 113 Music and Religion (3)

Music and Religion is an interdisciplinary course that studies the genesis, history, and impact of the marriage between music and organized religion. The course will cover topics including; Ancient Greek Modes, Gregorian chant, Organum, the Canonical Vespers, the Motet, the Mass, the Council of Trent, the Reformation, the Oratorio, the Requiem, Anti-Semitism in 19th Century Europe, the Liturgical Calendar, trance music, modern-day contemporary Christian music, etc. Due to the overwhelming canon of western classical music, the course will primarily examine musical forms of worship throughout the history of the Christian church; however, music and other religions will also be covered. Prerequisite: None.

(General Ed Creative Performing, General Ed Humanities.)

MU 120 Fundamentals of Music Theory (2, 3)

Music fundamentals including basic notation, intervals, scales, rhythm, ear training, writing of simple harmonic material with selected music for harmonic & form analysis.

(General Ed Creative Performing, General Ed Humanities. Communication.)

MU 122 Rhythm Perception-Music Majors (1)

Study of rhythm and meter through the analysis of mathematical constructs, notation practices, counting systems and tapping/clapping exercises. Development of rhythmic perception through rhythmic dictation and singing. Prerequisite: Music Major.

MU 123 Integrating Technology in Music (1)

An introduction to understanding the use of computer music applications and MIDI (Musical Instrument Digital Interface) in music. Will include software applications addressing ear training and music theory, sequencing and music notation. Prerequisite: Music Major.

MU 133 Group Piano I (1)

Development of basic piano techniques, sight reading, keyboard harmony and harmonization skills. Prerequisite for MU 133: Music Major status. Prerequisite for MU 134 is MU 133 or consent of instructor.

MU 134 Group Piano II (1)

Development of basic piano techniques, sight reading, keyboard harmony and harmonization skills. Prerequisite for MU 133: Music Major status. Prerequisite for MU 134 is MU 133 or consent of instructor.

MU 145 Marching Band (0-1)

The Fighting Blues Marching Band is open to all majors and non-majors. The Fighting Blues take great pride in entertaining and thrilling our fans in Yager Stadium with our precision marching and exciting music selections. The band also performs for other events, including bowl games, pep-rallies, alumni, administrative and foundation functions. Audition is not required. No prerequisite.

MU 146 Pep Band (0-1)

The WU Blues Pep Band is a driving force of the game day experience at basketball games. Comprised of students from across campus, and performing a repertoire of over 70 pieces, the WU Blues Pep Band is a high-energy, powerful ensemble that enhances the experience of the students, fans, and athletes. Participation in the WU Blues provides students with both musical and nonmusical benefits, developing musical skills in addition to learning valuable life skills relating to their overall education, including communication, teamwork, responsibility, and a sense of accomplishment. Prerequisites: Students selected, by audition, for Pep Band; participation are required to have successfully completed all Marching Band (MU 145/MU 345) requirements in the Fall semester immediately preceding Pep Band. Audition required.

MU 150 Introduction to Music Education (1)

Supervised school-based field experience designed for potential music teacher education candidates to investigate school music teaching as a profession. A minimum of 20 hours in an assigned school setting is required. Orientation to the Washburn teacher education program is included during university classroom sessions. MU 150 must be taken prior to admission to the Professional Teacher Education Program. Prerequisite: Admission into the Bachelor of Music degree in Music Education or consent of instructor.

MU 200 Special Topics/Music (0-3)

A variable content course treating areas of interest to both music majors and non-music majors. May be repeated for credit. Prerequisite: Consent of Instructor.

MU 204 Vocal Techniques - Instrumental Majors (1)

Study of pedagogical techniques for appropriate vocal development and health for instrumentalists. Prerequisite: Admission to Bachelor of Music - Music Education degree, or admission to Bachelor of Music - Instrumental Performance, or consent of instructor.

MU 205 Woodwind Techniques (1)

A practical study of pedagogy, tone production, embouchure, technique, care, repair, and other aspects of playing and teaching for the flute, clarinet, saxophone, oboe, and bassoon in the public schools. No prerequisite.

MU 206 Improvisation (2)

Introduction to the basic materials utilized in the practice of improvisation. Includes practical application through performance and utilization of major scales and modes, ear training, transcription, and the learning of patterns. Prerequisite: MU 215 or Consent of instructor.

MU 208 Guitar Techniques (1)

A study of tone production, technique, care and maintenance of the guitar. Pedagogical approaches for teaching guitar in school settings include: basic chords, positioning, and musical elements. Prerequisite: None.

MU 210 Brass Techniques (1)

The study of tone production, technique, care and maintenance of brass instruments, with an emphasis focused on teaching methods for public education. Prerequisite: None.

MU 211 String Techniques (1)

The study of tone production, technique, care and maintenance of string instruments, with an emphasis focused on teaching methods for public education. Prerequisite: None.

MU 212 Percussion Techniques (1)

The study of technique, care and maintenance of percussion, with an emphasis focused on teaching methods for public education. Prerequisite: None.

MU 213 Group Piano III (1)

Continuation of Group Piano II. Development of functional skills including transposition, score reading and improvisation. Also includes study of the intermediate level piano literature from various style periods. For music majors. Prerequisite for MU 213: MU 134. Prerequisite for MU 214: MU 213.

MU 214 Group Piano IV (1)

Continuation of Group Piano II. Development of functional skills including transposition, score reading and improvisation. Also includes study of the intermediate level piano literature from various style periods. For music majors. Prerequisite for MU 213: MU 134. Prerequisite for MU 214: MU 213.

MU 215 Music Theory I (3)

Study of music notation, scales, intervals, rhythm, meter, triads, seventh chords, figured bass, and Roman numerals, with an introduction to part-writing, harmonic progressions, cadences, and basic non-harmonic tones. Corequisite: MU 217 and MU 123 or consent of instructor. Prerequisite: music major, music minor, or musical theatre concentration status.

MU 217 Aural Skills I (1)

Development of aural skills through sight singing and melodic, rhythmic, and harmonic dictation. Reinforces fundamental concepts covered in Music Theory I. Corequisite: MU 215 or consent of instructor. Prerequisite: music major, music minor, or musical theatre concentration status.

MU 220 Vocal Diction for Singers (2)

The study of lyric diction for singing in English, Italian, Latin, French and German using the International Phonetic Alphabet. Vocalists enroll in Section A; Instrumentalists enroll in Section B. Prerequisite: Music major or consent of instructor.

MU 221 Choral Diction (2)

The study of foreign language diction with an emphasis on appropriate music for public school students and ensembles. Prerequisite: Admission into the Bachelor of Music degree in Music Education or consent of instructor.

MU 226 Wind Ensemble (1)

The Washburn Wind Ensemble is comprised of the finest woodwind, brass, and percussion students at Washburn University. The Wind Ensemble exposes students to the highest quality of music written for wind instruments from the Renaissance to the present. This repertoire, along with visits by renowned artists and educators, give the students a unique opportunity to experience a wide range of compositional techniques, rehearsal processes, and musical possibilities. Membership in the Wind Ensemble is open to both music and non-music majors, through audition.

MU 237 Choral Lab (0)

The initial experience in secondary music education in the area of choral work. No prerequisite.

MU 238 Instrumental Lab (0)

The initial experience in secondary music education in the area of instrumental works. Prerequisite: None.

MU 239 University Band (1)

The University Band is an ensemble that performs works from the standard literature for wind band. The University Band promotes the musical and intellectual growth of its members through careful selection of appropriate repertoire. Membership in the University Band is open to both music and non-music majors, through audition.

MU 240 Beginning Conducting (1)

Basic beat patterns, baton technique, score reading, philosophy and basic concepts of conducting. No prerequisite.

MU 243 Composition (1-3)

Individual tutoring in music composition with emphasis on the development and expansion of music materials. May be taken as an elective. May be repeated as an elective with consent of instructor. Prerequisite: MU 215 or consent of instructor.

MU 244 Collaborative Piano (0-1)

A laboratory designed to develop proficiency in sight reading and accompanying at the keyboard. Required for keyboard concentrations and keyboard majors.

MU 245 Concert Jazz Ensemble II (0-1)

The Washburn Concert Jazz Ensemble studies and performs works from various styles of jazz literature. The Ensemble promotes musical development and intellectual growth of its members through careful selection of appropriate jazz repertoire. Membership is open to both music and non-music majors through audition.

MU 246 Women's Chorus (0-1)

Open, by audition, to both majors and non-majors. Membership is based upon appropriate vocal range and quality, and not gender. The Women's Chorus focuses on the fundamentals of proper choral singing and a wide range of literature. In addition, the ensemble performs on campus and off campus during the year.

MU 247 Choir, Singers (0-1)

Open, by audition, to both majors and non-majors. The Washburn Singers perform a variety of styles of music from the chamber choir repertoire. In addition to participating in on-campus concerts each year, the ensemble also performs throughout the region for various high school choral programs and civic functions.

MU 248 Choir, Washburn (0-1)

Open, by audition, to both majors and non-majors. The Washburn Choir excels in performing a wide variety of styles of choral music. The choir performs regularly in both on and off-campus concerts, including major works with the Topeka and Kansas City symphonies.

MU 249 Washburn Jazz Orchestra (0-1)

The Washburn University Jazz Orchestra meets for the purpose of exploring various styles of jazz literature from swing to contemporary works of notable arrangers and composers through the instrumentation of the jazz big band. Expectations for the ensemble are of a professional quality with the highest possible standards in performance. Selection and placement is by audition only.

MU 250 Washburn Opera Studio (0-1)

Works from the operatic and musical theatre repertoire are rehearsed and performed workshop style. Practice and performance in solo and ensemble singing and staging in material ranging from modern and contemporary Broadway and off-Broadway musicals and revues to classic opera and operettas. Prerequisite: Consent of instructor.

MU 251 Orchestra (0-1)

Enrollment in Washburn University Orchestra is open to music and non-music majors by audition only. Repertory performed ranges from Baroque through contemporary literature. The ensemble performs at least two concerts each semester including Christmas Vespers in the Fall semester. Class participants may audition to perform solos with the orchestra. Selection and placement is by audition.

MU 252 Orchestra, String (0-1)

Enrollment in Washburn University String Orchestra is open to music and non-music majors by audition only. Repertory performed ranges from Renaissance through contemporary literature. Selection and placement is by audition.

MU 254 Small Ensembles-Lower Division (0-1)

This class offers students a chamber music experience with only one person on a part. Pre-existing chamber groups may enroll, or students will be assigned to various chamber groups based upon current enrollment. Recital performance is required.

MU 255 Bassoon (1-3)

Private Lesson - Bassoon. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 256 Cello (1-3)

Private Lesson - Cello. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 257 Clarinet (1-3)

Private Lesson - Clarinet. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 258 Euphonium (1-3)

Private Lesson - Euphonium. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 259 Flute (1-3)

Private Lesson - Flute. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 260 Guitar (1-3)

Private Lesson - Guitar. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 262 Harpsichord (1-3)

Private Lesson - Harpsichord. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 263 Horn (1-3)

Private Lesson - Horn. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 264 Oboe (1-3)

Private Lesson - Oboe. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 265 Organ (1-3)

Private Lesson - Organ. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 266 Percussion (1-3)

Private Lesson - Percussion. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 267 Piano (1-3)

Private Lesson - Piano. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 268 Saxophone (1-3)

Private Lesson - Saxophone. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 269 String Bass (1-3)

Private Lesson - String Bass. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 270 Trombone (1-3)

Private Lesson - Trombone. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 271 Trumpet (1-3)

Private Lesson - Trumpet. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 272 Tuba (1-3)

Private Lesson - Tuba. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 273 Viola (1-3)

Private Lesson - Viola. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 274 Violin (1-3)

Private Lesson - Violin. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 275 Voice (1-3)

Private Lesson - Voice. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 276 Applied Jazz Lessons (1-3)

Private Lesson - Applied Jazz. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 300 Music, Politics, Soc Comment. (3)

Interdisciplinary study of music as a tool for social and political commentary, propaganda, and protest, focusing primarily on 20th and 21st century genres, cultural movements, and events. Special emphasis is placed on American trends. Prerequisite: None.

(General Ed Creative Performing, General Ed Humanities. Global Citizenship Ethics Div.)

MU 305 Business of Music (1)

An overview of the music industry, with specific attention given to career development and opportunities, promotion and marketing techniques, contracts and negotiation, and arts management. Prerequisite: Jr. standing or consent of instructor.

MU 307 Music and the Brain (3)

Study of the biological processes of active and passive music involvement; and the resulting effect on individuals' learning, physical health, and mental well-being. Includes an experimental component. Prerequisite: EN 101 and BI 100.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

MU 311 Aural Skills II (1)

Development of aural skills through sight singing and melodic, rhythmic, and harmonic dictation. Reinforces fundamental concepts covered in Music Theory I and II. Corequisite: MU 314 or consent of instructor. Prerequisites: MU 215 and MU 217 or consent of instructor.

MU 312 Aural Skills III (1)

Development of aural skills through sight singing and melodic, rhythmic, and harmonic dictation. Reinforces fundamental concepts covered in Music Theory II and III. Prerequisites: MU 311 and MU 314. Corequisite: MU 315 or consent of instructor.

MU 313 Foundations of Elementary Music Education (2)

This course will examine the history and general principles of aesthetic education, the position of elementary music education in the historical and contemporary frameworks of universal public education, administrative operation of schools and music education programs, elementary music curriculum design and implementation, the management of music material, human relations aspects of teaching music, and aspects of the music educator's professional development. Elementary Music Practicum requirement: All students in this course participate in field-based teaching experiences in the schools. Prerequisite: Accepted in Professional Education program.

MU 314 Music Theory II (3)

Continued study of part-writing, harmonic progressions, cadences, and non-harmonic tones, with an introduction to tonicization, modulation, phrase and period forms, and baroque and classical style analysis. Corequisite: MU 311 or consent of instructor. Prerequisites: MU 215 and MU 217 or consent of instructor.

MU 315 Music Theory III (3)

Study of chromatic harmony, modulation, smaller and larger forms, and other topics related to music before 1900. Corequisite: MU 312 or consent of instructor. Prerequisites: MU 311 and MU 314 or consent of instructor.

MU 316 Music Theory IV (3)

Analysis of modern music and various analytical methods, including set theory, introduction to composition using tools of post-tonal genres, and study of jazz/popular music theory, including improvisation. Prerequisites: MU 312 and MU 315.

MU 317 Orchestration (2)

Practical arranging of piano, choral and instrumental literature. Scoring for voices, strings, woodwinds, brass and percussion instruments including the study of tone, timbre, ranges, transpositions and the blending of these elements. Prerequisite: MU 314 or consent of instructor.

MU 318 Jazz Arranging (3)

Practical arranging in the jazz idiom ranging from small ensembles to big bands. Includes 2 to 4 part writing with drop 2, drop 2 & 4, & rhythm section consideration. Includes study of transpositions & ranges.

MU 320 Form and Analysis (2)

Musical works from the 17th through 20th centuries are analyzed using a variety of analytical techniques. Students explore standard musical forms, musical structures, and questions of aesthetics. Prerequisite: MU 315: Theory and Aural Comprehension III. Prerequisite: MU 315.

MU 325 Music History I (3)

Survey of musical styles, composers, and forms in Western art music from Greco-Roman antiquity through the Baroque era (approx. 1750). Prerequisite: MU 215 or consent of instructor.

MU 326 Music History II (3)

Survey of musical styles, composers, and forms in Western art music from the Classical era (c. 1750) to the end of the Romantic Era (c. 1900). Prerequisite: MU 315 or consent of instructor.

MU 327 Music History III (2)

Survey of musical styles, composers, and forms in Western art music from c. 1900 through the present. Prerequisite: MU 326 or consent of instructor.

MU 330 Vocal Pedagogy and Literature (2)

Examines the anatomy and physiology of the vocal mechanism and its application for the singer, voice teacher, and music educator. The second half of the semester is devoted to song literature and its application for the solo singer as well as the voice teacher. Prerequisite: Music Major status or consent of instructor.

MU 335 Organ Literature I (1-2)

Study of organ literature from the Renaissance to the present incorporation styles, registration, and instrument of each period. Prerequisite: Music Major status or consent of instructor.

MU 336 Organ Pedagogy (1)

Study of various organ method books and relevant literature for use in teaching, plus knowledge of styles, registration, and organs of each musical period. Prerequisite: Music Major status or consent of instructor.

MU 337 Piano Literature I (2)

Keyboard music from the Elizabethan virginal school to the present time, designed primarily for piano majors and prospective piano teachers. Prerequisite: Music Major status or consent of instructor.

MU 338 Piano Literature II (2)

Keyboard music from the Elizabethan virginal school to the present time, designed primarily for piano majors and prospective piano teachers. Prerequisite: Music Major status or consent of instructor.

MU 339 Piano Pedagogy (2)

Examines learning theories, methods and materials for private and group piano teaching at the elementary to intermediate levels, including business and professional aspects of teaching. Prerequisite: Music Major status or consent of instructor.

MU 345 Marching Band (0-1)

The Fighting Blues Marching Band is open to all majors and non-majors. The Fighting Blues take great pride in entertaining and thrilling our fans in Yager Stadium with our precision marching and exciting music selections. The band also performs for other events, including bowl games, pep-rallies, alumni, administrative and foundation functions. Audition is not required. No prerequisite.

MU 400 Special Topics in Music (1-3)

A variable content course treating areas of interest to music majors. May be repeated for credit. Prerequisite: Consent of instructor.

MU 402 Senior Research Seminar (2)

Development and application of research, information literacy, and writing skills in preparation for graduate study and professional activity in music. Designed for music performance majors, but open to all music majors.

MU 415 Tonal Counterpoint (2)

The study, analysis, and writing of inventions, canons and fugues in 18th-century style, using works of J.S. Bach as a model. Prerequisite: MU 316.

MU 417 Secondary Choral Methods (3)

This course will examine materials and specific instructional methods of teaching choral music for grades 7-12 through a concept and skill building approach. Additional emphasis will be placed on the organization and development of vocal performing groups for grades 7-12. Secondary choral practicum requirement: All students in this course participate in field-based teaching experiences in the schools. Prerequisite: MU 313 or consent of instructor

MU 418 Elementary/Secondary Music Education Instrumental Methods (3)

This course will examine materials and specific instructional methods of teaching elementary and secondary instrumental music, by a concept and skill building approach, and emphasize the organization and development of instrumental performing groups. Practicum requirement: All students in this course participate in field-based teaching experiences in the schools. Prerequisite: MU 313 or consent of instructor.

MU 420 Jazz Band Pedagogy (1)

This course will examine the various jazz styles, rehearsal techniques, and improvisation in jazz band. Prerequisite: Pass Fourth Semester Jury or consent of instructor.

MU 421 Marching Band Pedagogy (1)

This course will examine the various marching band styles, marching fundamentals, rehearsal techniques, show design principles and other facets of organization for teaching High School Marching Band. Prerequisite: MU 245/MU 445 Marching Band.

MU 426 Wind Ensemble (1)

The Washburn Wind Ensemble is comprised of the finest woodwind, brass, and percussion students at Washburn University. The Wind Ensemble exposes students to the highest quality of music written for wind instruments from the Renaissance to the present. This repertoire, along with visits by renowned artists and educators, give the students a unique opportunity to experience a wide range of compositional techniques, rehearsal processes, and musical possibilities. Membership in the Wind Ensemble is open to both music and non-music majors, through audition.

MU 439 University Band (1)

The University Band is an ensemble that performs works from the standard literature for wind band. The University Band promotes the musical and intellectual growth of its members through careful selection of appropriate repertoire. Membership in the University Band is open to both music and non-music majors, through audition.

MU 441 Advanced Choral Conducting (1)

A practical opportunity to direct, under supervision, voices under conditions approximating the rehearsal situation. Prerequisite: MU 237 and 240 or consent of instructor.

MU 442 Advanced Instrumental Conducting (1)

A practical opportunity to direct, under supervision, strings and woodwind instruments under conditions approximating the rehearsal situation. Prerequisite: MU 238 and 240 or consent of instructor.

MU 443 Composition (1-3)

Individual tutoring in music composition with emphasis on the development and expansion of music materials. May be taken as an elective. May be repeated as an elective with consent of instructor. Prerequisite: MU 316 or consent of instructor.

MU 444 Collaborative Piano (0-2)

A laboratory designed to develop proficiency in sight reading and accompanying at the keyboard. Required for keyboard concentrations and keyboard majors.

MU 445 Concert Jazz Ensemble (0-1)

The Washburn Concert Jazz Ensemble studies and performs works from various styles of jazz literature. The Ensemble promotes musical development and intellectual growth of its members through careful selection of appropriate jazz repertoire. Membership is open to both music and non-music majors through audition.

MU 446 Women's Chorus (0-1)

Open, by audition, to both majors and non-majors. Membership is based upon appropriate vocal range and quality, and not gender. The Women's Chorus focuses on the fundamentals of proper choral singing and a wide range of literature. In addition, the ensemble performs on campus and off campus during the year.

MU 447 Choir, Singers (0-1)

Open, by audition, to both majors and non-majors. The Washburn Singers perform a variety of styles of music from the chamber choir repertoire. In addition to participating in on-campus concerts each year, the ensemble also performs throughout the region for various high school choral programs and civic functions.

MU 448 Choir, Washburn (0-1)

Open, by audition, to both majors and non-majors. The Washburn Choir excels in performing a wide variety of styles of choral music. The choir performs regularly in both on and off-campus concerts, including major works with the Topeka and Kansas City symphonies.

MU 449 Washburn Jazz Orchestra (0-1)

The Washburn University Jazz Orchestra meets for the purpose of exploring various styles of jazz literature from swing to contemporary works of notable arrangers and composers through the instrumentation of the jazz big band. Expectations for the ensemble are of a professional quality with the highest possible standards in performance. Selection and placement is by audition only.

MU 450 Washburn Opera Studio (0-3)

Works from the operatic and musical theatre repertoire are rehearsed and performed workshop style. Practice and performance in solo and ensemble singing and staging in material ranging from modern and contemporary Broadway and off-Broadway musicals and revues to classic opera and operettas. Prerequisite: Consent of instructor.

MU 451 Orchestra (0-1)

Enrollment in Washburn University Orchestra is open to music and non-music majors by audition only. Repertory performed ranges from Baroque through contemporary literature. The ensemble performs at least two concerts each semester including Christmas Vespers in the Fall semester. Class participants may audition to perform solos with the orchestra. Selection and placement is by audition.

MU 452 Orchestra, String (0-1)

Enrollment in Washburn University String Orchestra is open to music and non-music majors by audition only. Repertory performed ranges from Renaissance through contemporary literature. Selection and placement is by audition.

MU 454 Small Ensembles-Upper Division (0-1)

This class offers students a chamber music experience with only one person on a part. Pre-existing chamber groups may enroll, or students will be assigned to various chamber groups based upon current enrollment. Recital performance is required.

MU 455 Bassoon (1-3)

Private Lesson - Bassoon. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 456 Cello (1-3)

Private Lesson - Cello. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 457 Clarinet (1-3)

Private Lesson - Clarinet. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 458 Euphonium (1-3)

Private Lesson - Euphonium. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 459 Flute (1-3)

Private Lesson - Flute. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 460 Guitar (1-3)

Private Lesson - Guitar. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 462 Harpsichord (1-3)

Private Lesson - Harpsichord. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 463 Horn (1-3)

Private Lesson - Horn. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 464 Oboe (1-3)

Private Lesson - Oboe. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 465 Organ (1-3)

Private Lesson - Organ. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 466 Percussion (1-3)

Private Lesson - Percussion. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 467 Piano (1-3)

Private Lesson - Piano. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 468 Saxophone (1-3)

Private Lesson - Saxophone. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 469 String Bass (1-3)

Private Lesson - String Bass. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 470 Trombone (1-3)

Private Lesson - Trombone. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 471 Trumpet (1-3)

Private Lesson - Trumpet. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 472 Tuba (1-3)

Private Lesson - Tuba. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 473 Viola (1-3)

Private Lesson - Viola. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 474 Violin (1-3)

Private Lesson - Violin. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 475 Voice (1-3)

Private Lesson - Voice. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 476 Applied Jazz Lessons (1-3)

Private Lesson - Applied Jazz. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

Music, BA

The program leading to the Bachelor of Arts Degree with a major in Music is designed for students seeking a Liberal Arts Education with a concentration in music. The degree does not carry departmental recommendation for teaching licensure.

Degree Requirements

Students pursuing this degree must complete the General Education requirements common to all Bachelor of Arts programs (with the addition of a correlate requirement in the Social Sciences of HI 105 Introduction to World Music and its History), and the following music requirements:

Code	Title	Hours
General Education Requirements		
See General Education requirements, this catalog ¹		58
Subtotal		58
Music Requirements		
MU 123	Integrating Technology in Music	1
MU 215	Music Theory I	3
MU 314	Music Theory II	3
MU 315	Music Theory III	3
MU 316	Music Theory IV	3
MU 217	Aural Skills I	1
MU 311	Aural Skills II	1
MU 312	Aural Skills III	1
MU 325	Music History I	3
MU 326	Music History II	3
MU 327	Music History III	2
MU 070A	Performance Class	0
Private lessons		8

MU 133	Group Piano I	1
MU 134	Group Piano II	1
Large Ensembles ²		3
Small Ensemble ²		1
Subtotal		38
General Electives		
Electives from any department of the university, except Music ³		24
Subtotal		24
Total Hours		120

¹ HI 105 Introduction to World Music and its History is required for all music majors

² Music participation in two ensembles each semester is required.

³ Ensemble credit and/or private lesson and/or Group Piano (beyond the required hours in the major), up to 15 hours, may be counted in these General Electives.

Private Lessons

BA majors may enroll in no more than 2 hours of lessons each semester, and must enroll in at least 1 credit hour of lessons in their instrument each semester that they are a music major. All Music Majors must enroll in MU 070A Performance Class and all Music Minors must enroll in MU 070B Performance Class every semester that they are enrolled in private lessons in their concentration area. All students enrolled in music lessons are required to present a performance jury before a faculty panel for each semester of study. Students are required to provide their own accompanist for the jury.

Recital Attendance

Students are required to attend approved recitals and concerts each semester for the first four semesters of enrollment, for a total of 48 recitals. All Music Majors are required to attend student recitals each semester.

Scale Proficiency Exam

Students aspiring to the Bachelor of Arts degree will be examined by each division at the end of their third semester. All students must establish a minimum level of competency in all Major Scales, Chromatic Scale and all forms of the Minor scale.

Rhythmic Proficiency Exam

All students must pass this exam to establish a minimum level of competency in rhythmic proficiency.

Requirement to Move to Upper Division Credit in Private Lessons and Ensembles

BA majors who have completed 4 semesters of study and who have completed the Recital Attendance requirement, the Rhythmic Proficiency Exam, MU 133 Group Piano I, MU 215 Music Theory I, and MU 217 Aural Skills I may receive upper division credit by passing a performance proficiency exam titled a "Double Jury." Students who pass these requirements will be allowed to register for upper division credit in both private lessons, ensembles, and music classes in subsequent semesters.

Upper Division Requirement, 45 hours

Students must complete a minimum of 45 upper division hours (300-400 numbered courses).

Bachelor of Music

The Bachelor of Music degree is pursued by students planning a professional career in music. There are two majors offered: Music Performance and Music Education.

The Bachelor of Music degree with a Major in **Music Performance** offers emphases in voice, brass, percussion, strings, guitar, woodwinds, piano, and organ.

The Bachelor of Music degree in **Music Education** offers a general (both instrumental and vocal) track for the aspiring educator. Students who complete the degree program are eligible to apply for Licensure to teach PK-12 Music.

Students who intend to pursue the Bachelor of Music degree should demonstrate acceptable performance skills before enrolling at Washburn. Admission to the degree is by audition. The following requirements must be met by all candidates for both majors within the Bachelor of Music degree:

Private Lessons

All Music Majors must enroll in MU 070A Performance Class and all Music Minors must enroll in MU 070B Performance Class every semester that they are enrolled in private lessons in their concentration area. All students enrolled in music lessons are required to present a performance jury before a faculty panel after each semester of study. Students are required to provide their own accompanist for the jury.

Recital Attendance

Students are required to attend approved recitals and concerts each semester for the first four semesters of enrollment, for a total of 48 recitals. All Music Majors are required each semester to attend student recitals.

Rhythmic Proficiency Exam

All students must pass this exam to establish a minimum level of competency in rhythmic proficiency.

Fourth Semester Achievement Performance Examination

Students aspiring to the Bachelor of Music degree will be examined by the combined faculty at the end of the fourth semester of study for achievement in the following categories:

- Recital attendance (48 required)
- Rhythmic Proficiency Exam
- Scale Proficiency Exam
- Music Theory I and Aural Skills I
- Group Piano Proficiency Exam
- Performance Proficiency Exam

Probation will be given to anyone who fails one or more of the five categories of achievement. Students receiving probation will have a maximum of one consecutive semester in which to resolve any deficiency

(two semesters to resolve a deficiency in MU 215 Music Theory I and MU 217 Aural Skills I).

Piano Proficiency Exam

Candidates for the Bachelor of Music degree, except those whose major instrument is piano or organ, must pass this exam to establish a minimum level of competency in technique, literature, improvisation, harmonization and transposition.

Scale Proficiency Exam

Students aspiring to the Bachelor of Music degree will be examined by each division at the end of their third semester. All students must establish a minimum level of competency in all Major Scales, Chromatic Scale and all forms of the Minor scale.

Junior and Senior Recital Jury Examination

A Senior Recital is required of all candidates for the Bachelor of Music degree. In addition, a Junior Recital is required for Music Performance majors. All components of the Fourth Semester Achievement Exam must be passed before the Senior Recital can be presented. For the recital to be credited toward the degree the student must be currently enrolled for credit in private lessons. At least three weeks prior to the scheduled public performance, the student will perform a recital hearing before a jury composed of his/her private teacher, and two other approved faculty members. After the student passes the jury he/she will be allowed to publicize and present his/her Senior Recital.

Membership in Large Ensemble

All Bachelor of Arts and Bachelor of Music candidates are required to participate in two large ensembles (Washburn Choir; Washburn Singers; Women's Chorus; Washburn Orchestra; Washburn String Orchestra; Collaborative Piano; Washburn Wind Ensemble; University Band; Marching Band; Jazz Orchestra or Concert Jazz Ensemble) each semester of full-time enrollment. For large ensemble requirements particular to each instrument, please consult the online Music Department Handbook (www.washburn.edu/music-handbook (<https://www.washburn.edu/academics/college-schools/arts-sciences/departments/music/current-students.html>)).

Programs

- Music Education, BM (p. 188)
- Music Performance, BM (p. 190)

Music Education, BM

Bachelor of Music Degree in Music Education (126 Hours)

The Bachelor of Music Degree with a major in Music Education qualifies the graduate to apply for teacher licensure (PK-12 Music). This degree program totals 126 hours for Instrumental Emphasis and 126 hours for Vocal Emphasis. It will necessitate work beyond eight semesters. The student is urged to seek advisement from a Music Education advisor regarding specific course requirements. A distribution of general education requirements for teacher licensure is outlined. Degree requirements include both music and professional education courses. Additional Bachelor of Music degree requirements are described

on the Bachelor of Music Overview (p. 187) page. Refer to the music department handbook (online at <https://www.washburn.edu/academics/college-schools/arts-sciences/departments/music/current-students.html>) for further details concerning this degree and corresponding curriculum.

All students seeking licensure to teach must be formally admitted to the University's Professional Teacher Education Program. Admission is conditional on recommendation by the Music faculty. For admission requirements, see **Education** in this catalog.

Students pursuing this degree must complete the General Education requirements as listed in this catalog (with the addition of a correlate requirement in the Social Sciences of HI 105 Introduction to World Music and its History; EN 300 Advanced College Writing, Teaching Emphasis) and the following Music and Professional Education requirements:

Bachelor of Music Requirements for the Major in Music Education (Instrumental)

General Education Requirements - 39 hours

See General Education requirements, this catalog. HI 105 Introduction to World Music and its History is required for all music majors. EN 300 Advanced College Writing is required for all Bachelor of Music degrees with a major in Music Education.]

Code	Title	Hours
Music Requirements (58 Hours)		
Theory		
MU 123	Integrating Technology in Music	1
MU 215	Music Theory I	3
MU 314	Music Theory II	3
MU 315	Music Theory III	3
MU 316	Music Theory IV	3
MU 217	Aural Skills I	1
MU 311	Aural Skills II	1
MU 312	Aural Skills III	1
MU 317	Orchestration	2
Subtotal		18
<i>Music History and Literature</i>		
MU 325	Music History I	3
MU 326	Music History II	3
MU 327	Music History III	2
Subtotal		8
<i>Conducting</i>		
MU 237	Choral Lab	0
MU 238	Instrumental Lab	0
MU 240	Beginning Conducting	1
MU 441	Advanced Choral Conducting	1
MU 442	Advanced Instrumental Conducting	1
Subtotal		3
<i>Techniques</i>		
MU 204	Vocal Techniques - Instrumental Majors	1
MU 205	Woodwind Techniques	1
MU 208	Guitar Techniques	1
MU 210	Brass Techniques	1

MU 211	String Techniques	1
MU 212	Percussion Techniques	1
MU 220	Vocal Diction for Singers (Enroll in Section B - Instrumentalist)	2
Subtotal		8
<i>Applied Music Lessons</i>		
Area of concentration:		12
MU 070A	Performance Class (required each semester)	
Subtotal		12
<i>Group Piano</i>		
MU 133	Group Piano I (or until the Piano Proficiency Exam is passed)	1
MU 134	Group Piano II (or until the Piano Proficiency Exam is passed)	1
Subtotal		2
<i>Large Ensembles</i>		
Ensemble (one hour must be in a choral ensemble) ¹		6
Subtotal		6
<i>Small Ensembles</i>		
MU 254	Small Ensembles-Lower Division	1
or MU 454	Small Ensembles-Upper Division	
Subtotal		1
Professional Education Requirements (29 Hours)		
MU 150	Introduction to Music Education	1
MU 313	Foundations of Elementary Music Education	2
MU 417	Secondary Choral Methods	3
MU 418	Elementary/Secondary Music Education Instrumental Methods	3
MU 420	Jazz Band Pedagogy	1
MU 421	Marching Band Pedagogy	1
ED 285	Educational Psychology	3
ED 302	Teaching Exceptional Learners	3
ED 440	Student Teaching Grades P-12	12
Subtotal		29
Total Hours		87

¹ All Bachelor of Arts and Bachelor of Music candidates are required to participate in two large ensembles (Washburn Choir; Washburn Singers; Women's Chorus; Washburn Orchestra; Washburn String Orchestra; Collaborative Piano; Washburn Wind Ensemble; University Band; Marching Band; Jazz Orchestra or Concert Jazz Ensemble) each semester of full-time enrollment. For large ensemble requirements particular to each instrument, please consult the online Music Department Handbook (www.washburn.edu/music-handbook) (<https://www.washburn.edu/academics/college-schools/arts-sciences/departments/music/current-students.html>)

Degree Requirements

- Piano Proficiency Exam (PPE)
- Scale Proficiency Exam
- Rhythmic Perception Exam (RPE)
- Complete 48 Recital Credits

- 4th Semester Performance Proficiency Exam
- Pass Senior Recital Jury and present Senior Recital

Bachelor of Music Requirements for the Major in Music Education (Vocal)

General Education Requirements - 39 hours

See General Education requirements, this catalog. [HI 105 Introduction to World Music and its History is required for all music majors.] [EN 300 Advanced College Writing is required for all Bachelor of Music degrees with a major in Music Education.]

Code	Title	Hours
Music Requirements (60 Hours)		
<i>Theory</i>		
MU 123	Integrating Technology in Music	1
MU 215	Music Theory I	3
MU 314	Music Theory II	3
MU 315	Music Theory III	3
MU 316	Music Theory IV	3
MU 217	Aural Skills I	1
MU 311	Aural Skills II	1
MU 312	Aural Skills III	1
MU 317	Orchestration	2
Subtotal		18
<i>Music History and Literature</i>		
MU 325	Music History I	3
MU 326	Music History II	3
MU 327	Music History III	2
Subtotal		8
<i>Conducting</i>		
MU 237	Choral Lab	0
MU 238	Instrumental Lab	0
MU 240	Beginning Conducting	1
MU 441	Advanced Choral Conducting	1
MU 442	Advanced Instrumental Conducting	1
Subtotal		3
<i>Techniques</i>		
MU 208	Guitar Techniques	1
Select 3 of the following:		3
MU 210	Brass Techniques	
MU 205	Woodwind Techniques	
MU 211	String Techniques	
MU 212	Percussion Techniques	
MU 220	Vocal Diction for Singers (Enroll in Section A – Vocalists)	2
MU 320	Form and Analysis	2
Subtotal		8
<i>Applied Music Lessons</i>		
Area of concentration:		12
MU 070A	Performance Class (required each semester)	
Subtotal		12
<i>Group Piano</i>		

MU 133	Group Piano I (or until the Piano Proficiency Exam is passed)	1
MU 134	Group Piano II (or until the Piano Proficiency Exam is passed)	1
Subtotal		2
<i>Large Ensembles</i>		
Ensemble ¹		6
Subtotal		6
<i>Small Ensembles</i>		
MU 250 or MU 450	Washburn Opera Studio	1
Subtotal		1
Professional Education Requirements (29 Hours)		
MU 150	Introduction to Music Education	1
MU 313	Foundations of Elementary Music Education	2
MU 417	Secondary Choral Methods	3
MU 418	Elementary/Secondary Music Education Instrumental Methods	3
MU 420	Jazz Band Pedagogy	1
MU 421	Marching Band Pedagogy	1
ED 285	Educational Psychology	3
ED 302	Teaching Exceptional Learners	3
ED 440	Student Teaching Grades P-12	12
Subtotal		29
Total Hours		87

¹ All Bachelor of Arts and Bachelor of Music candidates are required to participate in two large ensembles (Washburn Choir; Washburn Singers; Women's Chorus; Washburn Orchestra; Washburn String Orchestra; Collaborative Piano; Washburn Wind Ensemble; University Band; Marching Band; Jazz Orchestra or Concert Jazz Ensemble) each semester of full-time enrollment. For large ensemble requirements particular to each instrument, please consult the online Music Department Handbook (www.washburn.edu/music-handbook) (<https://www.washburn.edu/academics/college-schools/arts-sciences/departments/music/current-students.html>).

Degree Requirements

- Piano Proficiency Exam (PPE)
- Scale Proficiency Exam
- Rhythmic Perception Exam (RPE)
- Complete 48 Recital Credits
- 4th Semester Performance Proficiency Exam
- Pass Senior Recital Jury and present Senior Recital

Music Performance, BM Bachelor Music Degree in Music Performance (120 Hours)

The program leading to the Bachelor of Music degree with a major in Music Performance is designed for students planning a career in professional performance, college or university teaching, or private studio teaching. Entering students who plan to major in Music Performance should be prepared to demonstrate acceptable performance skills before

enrolling at Washburn. Additional Bachelor of Music degree requirements are described on the Bachelor of Music Overview (p. 187) page. Performance majors are required to present both a Junior and a Senior public recital.

Degree Requirements

Students pursuing this degree must complete the General Education requirements as listed in this catalog (with the addition of a correlate requirement in the Social Sciences of HI 105 Introduction to World Music and its History) and the following music requirements:

Bachelor of Music Requirements for the Major in Organ Performance

Code	Title	Hours
General Education Requirements		
See General Education requirements, this catalog. ¹		39
Subtotal		39
Music Requirements		
Theory		
MU 123	Integrating Technology in Music	1
MU 215	Music Theory I	3
MU 314	Music Theory II	3
MU 315	Music Theory III	3
MU 316	Music Theory IV	3
MU 217	Aural Skills I	1
MU 311	Aural Skills II	1
MU 312	Aural Skills III	1
MU 317	Orchestration	2
MU 320	Form and Analysis	2
MU 443	Composition	1
<i>Music History and Literature</i>		
MU 325	Music History I	3
MU 326	Music History II	3
MU 327	Music History III	2
<i>Organ Literature and Pedagogy</i>		
MU 335	Organ Literature I	2
MU 336	Organ Pedagogy	1
<i>Conducting</i>		
MU 237	Choral Lab	0
MU 238	Instrumental Lab	0
MU 240	Beginning Conducting	1
MU 441	Advanced Choral Conducting	1
MU 442	Advanced Instrumental Conducting	1
<i>Private Lessons</i> ²		
MU 265 or MU 465	Organ	24
MU 070A	Performance Class (required each semester)	0
<i>Ensembles</i>		
MU 244 or MU 444	Collaborative Piano (enrollment required each semester) Collaborative Piano	8
<i>Small Ensembles</i>		

MU 254	Small Ensembles-Lower Division	2
or MU 454	Small Ensembles-Upper Division	
<i>Specialization Courses</i>		
MU 305	Business of Music	1
MU 400	Special Topics in Music (Senior Seminar)	2
<i>Music Electives</i>		
Music electives to reach 78 hours		6
Subtotal		78
General Electives		
Courses from any department, including Music, will be taken to complete a total of 120 semester hours.		3
Subtotal		3
Total Hours		120

¹ HI 105 Introduction to World Music and its History is required for all music majors.

² Students normally enroll for 3 hours of private lessons each semester.

Degree Requirements

- Piano Proficiency Exam (PPE)
- Scale Proficiency Exam
- Rhythmic Perception Exam (RPE)
- Complete 48 Recital Credits
- 4th Semester Performance Proficiency Exam
- Pass Senior Recital Jury and present Senior Recital

Bachelor of Music Requirements for the Major in Piano Performance (120 hours)

Code	Title	Hours
General Education Requirements		
See General Education requirements, this catalog. ¹		39
Subtotal		39
Music Requirements		
<i>Theory</i>		
MU 123	Integrating Technology in Music	1
MU 215	Music Theory I	3
MU 314	Music Theory II	3
MU 315	Music Theory III	3
MU 316	Music Theory IV	3
MU 217	Aural Skills I	1
MU 311	Aural Skills II	1
MU 312	Aural Skills III	1
MU 317	Orchestration	2
MU 320	Form and Analysis	2
MU 443	Composition	1
<i>Music History and Literature</i>		
MU 325	Music History I	3
MU 326	Music History II	3
MU 327	Music History III	2
<i>Piano Literature and Pedagogy</i>		
<i>Conducting</i>		
MU 240	Beginning Conducting	1

MU 441	Advanced Choral Conducting	1
MU 442	Advanced Instrumental Conducting	1
<i>Applied Music Lessons</i> ²		
MU 267	Piano	24
or MU 467	Piano	
MU 070A	Performance Class (required each semester)	0
<i>Ensembles</i>		
MU 244	Collaborative Piano (enrollment required each semester)	8
or MU 444	Collaborative Piano	
<i>Small Ensembles</i>		
MU:xxx	Small Ensemble	2

Specialization Courses

MU 305	Business of Music	1
MU 400	Special Topics in Music (Senior Seminar)	2
<i>Music Electives</i>		
Students may select any courses in Music to complete 79 hours in Music.		4
Subtotal		73

General Electives

Courses from any department, including Music, will be taken to complete a total of 120 semester hours.		3
Subtotal		3

Total Hours **115**

¹ HI 105 Introduction to World Music and its History is required for all music majors.

² Students normally enroll for 3 hours of private lessons each semester.

Degree Requirements

- Piano Proficiency Exam (PPE)
- Scale Proficiency Exam
- Rhythmic Perception Exam (RPE)
- Complete 48 Recital Credits
- 4th Semester Performance Proficiency Exam
- Pass Senior Recital Jury and present Senior Recital

Bachelor of Music Requirements for the Major in Guitar Performance (120 hours)

Code	Title	Hours
General Education Requirements		
See General Education requirements, this catalog. ¹		39
Subtotal		39
Music Requirements		
<i>Theory</i>		
MU 123	Integrating Technology in Music	1
MU 215	Music Theory I	3
MU 314	Music Theory II	3
MU 315	Music Theory III	3
MU 316	Music Theory IV	3
MU 317	Orchestration	2

MU 320	Form and Analysis	2
MU 443	Composition	1
<i>Music History and Literature</i>		
MU 325	Music History I	3
MU 326	Music History II	3
MU 327	Music History III	2
<i>Piano Literature and Pedagogy</i>		
MU 337	Piano Literature I	2
MU 338	Piano Literature II	2
MU 339	Piano Pedagogy	2
<i>Conducting</i>		
MU 238	Instrumental Lab	0
MU 240	Beginning Conducting	1
MU 442	Advanced Instrumental Conducting	1
<i>Applied Music Lessons</i> ²		
MU 260	Guitar	24
or MU 460	Guitar	
MU 070A	Performance Class (required each semester)	0
For most, the following are required:		
MU 133	Group Piano I	1
MU 134	Group Piano II	1
Voice Lessons		1
Performance Minor Lessons		2
<i>Pedagogy</i>		
MU 208	Guitar Techniques	1
<i>Ensembles</i> ³		
Large Ensembles		8
Small Ensembles		4
<i>Specialization Courses</i>		
MU 305	Business of Music	1
MU 400	Special Topics in Music (Senior Seminar)	2
<i>Music Electives</i>		
Music electives to reach 79 hours		4
Subtotal		83
General Electives		
Courses from any department, including Music, will be taken to complete a total of 120 semester hours.		5
Subtotal		5
Total Hours		127

¹ HI 105 Introduction to World Music and its History is required for all music majors.

² Students normally enroll for 3 hours of private lessons each semester. Students must take at least 2 hours of group piano or piano lessons and pass the Piano Proficiency Exam prior to the 4th semester jury.

³ Students are required to enroll in two large ensembles each semester of full-time enrollment.

Degree Requirements

- Piano Proficiency Exam (PPE)
- Scale Proficiency Exam
- Rhythmic Perception Exam (RPE)

- Complete 48 Recital Credits
- 4th Semester Performance Proficiency Exam
- Pass Senior Recital Jury and present Senior Recital

Bachelor of Music Requirements for the Major in Voice Performance

Code	Title	Hours
General Education Requirements		
See General Education Requirements, this catalog. ¹		40
Subtotal		40
Music Requirements		
<i>Theory</i>		
MU 123	Integrating Technology in Music	1
MU 215	Music Theory I	3
MU 314	Music Theory II	3
MU 315	Music Theory III	3
MU 316	Music Theory IV	3
MU 217	Aural Skills I	1
MU 311	Aural Skills II	1
MU 312	Aural Skills III	1
MU 317	Orchestration	2
MU 320	Form and Analysis	2
<i>Music History and Literature</i>		
MU 325	Music History I	3
MU 326	Music History II	3
MU 327	Music History III	2
<i>Conducting</i>		
MU 237	Choral Lab	0
MU 240	Beginning Conducting	1
MU 441	Advanced Choral Conducting	1
<i>Voice Lessons</i> ²		
MU 275	Voice	24
or MU 475	Voice	
<i>Group Piano</i> ³		
MU 133	Group Piano I	1
MU 134	Group Piano II	1
MU 213	Group Piano III	1
MU 214	Group Piano IV	1
<i>Piano Lessons</i>		
MU 267	Piano	2
or MU 467	Piano	
<i>Orchestral Instrument</i>		
Orchestral instrument credit		1
<i>Large Ensembles</i> ⁴		
Ensembles		8
<i>Small Ensembles</i>		
MU 250	Washburn Opera Studio	4
or MU 450	Washburn Opera Studio	
<i>Specialization Courses</i>		
MU 220	Vocal Diction for Singers	2
MU 330	Vocal Pedagogy and Literature	2
MU 400	Special Topics in Music	2

MU 305	Business of Music	1
Subtotal		80
General Electives		
Courses from any department, including Music, will be taken to complete a total of 122 semester hours.		1
Subtotal		1
Total Hours		121

- HI 105 Introduction to World Music and its History is required for all music majors.
- Students normally enroll in 3 hours of Voice each semester.
- Students must enroll in Group Piano until the Piano Proficiency Exam is passed.
- All Bachelor of Arts and Bachelor of Music candidates are required to participate in two large ensembles (Washburn Choir; Washburn Singers; Women's Chorus; Washburn Orchestra; Washburn String Orchestra; Accompanying; Washburn Wind Ensemble; University Band; Marching Band; Jazz Orchestra or Concert Jazz Ensemble) each semester of full-time enrollment. For large ensemble requirements particular to each instrument, please consult the online Music Department Handbook (www.washburn.edu/music-handbook (<https://www.washburn.edu/academics/college-schools/arts-sciences/departments/music/current-students.html>)).

Degree Requirements

- Piano Proficiency Exam (PPE)
- Scale Proficiency Exam
- Rhythmic Perception Exam (RPE)
- Complete 48 Recital Credits
- 4th Semester Performance Proficiency Exam
- Pass Senior Recital Jury and present Senior Recital

Bachelor of Music Requirements for the Major in Brass/Percussion/Woodwind Performance

Code	Title	Hours
General Education Requirements		
See General Education requirements, this catalog ¹		39
Subtotal		39
Music Requirements		
<i>Theory</i>		
MU 123	Integrating Technology in Music	1
MU 215	Music Theory I	3
MU 314	Music Theory II	3
MU 315	Music Theory III	3
MU 316	Music Theory IV	3
MU 217	Aural Skills I	1
MU 311	Aural Skills II	1
MU 312	Aural Skills III	1
MU 317	Orchestration	2
MU 320	Form and Analysis	2
MU 443	Composition	1
<i>Music History and Literature</i>		
MU 325	Music History I	3

MU 326	Music History II	3
MU 327	Music History III	2
<i>Conducting</i>		
MU 238	Instrumental Lab	0
MU 240	Beginning Conducting	1
MU 442	Advanced Instrumental Conducting	1
<i>Performance Major Lessons</i> ^{2,3}		
Major lessons		24
<i>Group Piano</i> ⁴		
MU 133	Group Piano I	1
MU 134	Group Piano II	1
<i>Voice Lessons</i>		
MU 275	Voice	1
<i>Pedagogy</i>		
MU 2xx	Instrumental Techniques ⁵	1
<i>Performance Minor</i>		
Any one orchestral instrument		2
<i>Large Ensemble</i> ⁶		
Large Ensemble credit hours		8
<i>Small Ensembles</i>		
MU 254	Small Ensembles-Lower Division	4
or MU 454	Small Ensembles-Upper Division	
<i>Specialization Courses</i>		
MU 400	Special Topics in Music	2
MU 305	Business of Music	1
Subtotal		76
General Electives		
Courses from any department, including Music, will be taken to complete a total of 121 semester hours.		5
Subtotal		5
Total Hours		120

- HI 105 Introduction to World Music and its History is required for all music majors.
- Students must complete 24 hours in their area of specialty.
- Students normally enroll in 3 hours of lessons each semester.
- Students must enroll in Group Piano until the Piano Proficiency Exam is passed.
- Select the course for the primary instrument.
- All Bachelor of Arts and Bachelor of Music candidates are required to participate in two large ensembles (Washburn Choir; Washburn Singers; Women's Chorus; Washburn Orchestra; Washburn String Orchestra; Accompanying; Washburn Wind Ensemble; University Band; Marching Band; Jazz Orchestra or Concert Jazz Ensemble) each semester of full-time enrollment. For large ensemble requirements particular to each instrument, please consult the online Music Department Handbook (www.washburn.edu/music-handbook (<https://www.washburn.edu/academics/college-schools/arts-sciences/departments/music/current-students.html>)).

Degree Requirements

- Piano Proficiency Exam (PPE)
- Scale Proficiency Exam
- Rhythmic Perception Exam (RPE)

- Complete 48 Recital Credits
- 4th Semester Performance Proficiency Exam
- Pass Senior Recital Jury and present Senior Recital

Bachelor of Musical Arts

The program leading to the Bachelor of Musical Arts degree is designed for students planning to pursue a diverse array of professional careers in music. The BMA is a flexible and personalized degree that requires a complementary minor outside of music. With the help of the academic advisor, the student also selects a track of music electives that form an emphasis beyond the core music requirements.

Students pursuing this degree must complete the General Education requirements as listed in this catalog (including a correlate requirement in the Social Sciences of HI 105 Introduction to World Music and its History) and the following Music and Minor requirements.

General Education Requirements - 39 hours

Code	Title	Hours
Required Courses - 12 hours		
WU 101	The Washburn Experience	3
EN 101	First Year Writing	3
EN 300	Advanced College Writing	3
MA 112	Contemporary College Mathematics	3
Social Sciences - 9 hours¹		
HI 105	Introduction to World Music and its History	3
Elective		3
Elective		3
Natural Sciences and Mathematics - 9 hours¹		
Elective		3
Elective		3
Elective		3
Arts and Humanities - 9 hours¹		
Elective in Fine arts (Art or Theatre) ²		3
Elective		3
Elective		3
Total Hours		39

¹ courses must be taken in at least 2 disciplines

² cannot be Music general education course

Music Content, Skills, and Pedagogy - 45 hours

Code	Title	Hours
Music Theory and Composition - 16 hours		
MU 123	Integrating Technology in Music	1
MU 215	Music Theory I	3
MU 314	Music Theory II	3
MU 315	Music Theory III	3
MU 316	Music Theory IV	3
MU 217	Aural Skills I	1
MU 311	Aural Skills II	1

MU 312	Aural Skills III	1
Music History - 8 hours		
MU 325	Music History I	3
MU 326	Music History II	3
MU 327	Music History III	2
Applied Music Lessons - 14 hours		
Private lessons in Concentration area ¹		12
MU 070A	Performance Class ²	0
MU 133	Group Piano I ³	1
MU 134	Group Piano II ³	1
Large Ensembles - 6 hours⁴		6
Small Ensembles - 1 hour		
MU 250/450	Washburn Opera Studio	1
	or MU 254/454 Small Ensembles-Lower Division	
Total Hours		45

¹ students normally enroll for 2 hours of private lessons each semester

² required each semester

³ at least 2 credits of group or piano lessons (typically MU 133 and MU 134) and pass the Piano Proficiency Exam prior to 4th Semester Jury

⁴ BMA candidates are required to enroll in two large ensembles each semester of full-time enrollment. For large ensemble requirements particular to each instrument and degree, consult the Music Department Student Handbook (<https://www.washburn.edu/academics/college-schools/arts-sciences/departments/music/current-students.html>).

Electives - 35+ hours

(Minor Outside of Music - 18 hours; Emphasis Within Music - 18 hours)

Emphasis Within Music (18 hours)

At least 18 hours taken in music: the individual course of study should support the student's interest area with the discipline. The proposed curriculum must be approved by the student's BMA advisor.

Music Department Benchmarks

4th Semester Performance Exam. Complete the following prior to scheduling the 4th Semester Performance Proficiency Exam:

- Piano Proficiency Exam
- Scale Proficiency Exam
- Rhythmic Perception Exam (RPE) – students deficient in rhythmic perception must take MU 122 Rhythmic Perception (1 credit: credit does not count toward degree requirements)
- Pass MU 133 Group Piano I with a C or higher
- Pass MU 215 Music Theory I and MU 217 Aural Skills with a C or higher
- Complete 48 Recital Attendance Credits

Senior Recital: Pass Senior Recital Jury and present Senior Recital

Complete 45 Hours of upper division work (300-400 level). Must complete the requirements of the 4th Semester Performance Exam before enrolling in upper division music courses, ensembles, and applied lessons.

Music, Minor

The Department of Music offers two minors, available to non-music majors: the traditional Music Minor and the Minor in Jazz Studies (Vocal or Instrumental). Common to both minors are a required entrance audition; attendance at 14 recitals, and 6 hours of upper division coursework. A minimum of 15 credit hours of the minor must be completed at Washburn University. All Music Minors must enroll in MU 070B Performance Class every semester that they are enrolled in private lessons in their concentration area. All students enrolled in music lessons are required to present a performance jury before a faculty panel at the conclusion of each semester of study. Students are required to provide their own accompanist for the jury.

Minor Requirements

The **Music Minor** requires 24 credit hours, including:

Code	Title	Hours
MU 100	Enjoyment of Music	3
MU 215	Music Theory I	3
MU 217	Aural Skills I	1
Large Ensembles		2
Music electives ¹		9
Upper division courses ¹		6
Total Hours		24

¹ No more than 6 credit hours of ensemble credit may be used. Music electives may include applied lessons.

Jazz Studies, Minor

The Department of Music offers two minors, available to non-music majors: the traditional Music Minor and the Minor in Jazz Studies (Vocal or Instrumental). Common to both minors are a required entrance audition; attendance at 14 recitals, and 6 hours of upper division coursework. A minimum of 15 credit hours of the minor must be completed at Washburn University. All Music Minors must enroll in MU 070B Performance Class every semester that they are enrolled in private lessons in their concentration area. All students enrolled in music lessons are required to present a performance jury before a faculty panel after each semester of study. Students are required to provide their own accompanist for the jury.

Minor Requirements

Minor in Jazz Studies (Vocal)

Code	Title	Hours
MU 122	Rhythm Perception-Music Majors	1
MU 123	Integrating Technology in Music	1
MU 215	Music Theory I	3
MU 217	Aural Skills I	1
MU 420	Jazz Band Pedagogy	1
MU 133 & MU 134	Group Piano I and Group Piano II	2
MU 206	Improvisation	2
Keyboard		
MU 276 or MU 476	Applied Jazz Lessons	2

Vocal		
MU 276 or MU 476	Applied Jazz Lessons	2
Vocal Jazz Ensemble		
MU 254 or MU 454	Small Ensembles-Lower Division or Small Ensembles-Upper Division	1
Select one of the following:		
MU 245 or MU 445	Concert Jazz Ensemble II or Concert Jazz Ensemble	1
Jazz Ensemble		
MU 249 or MU 449	Washburn Jazz Orchestra or Washburn Jazz Orchestra	
Jazz Combo		
MU 254 or MU 454	Small Ensembles-Lower Division (jazz combo) or Small Ensembles-Upper Division	
Total Hours		17

Minor in Jazz (Instrumental)

Code	Title	Hours
MU 122	Rhythm Perception-Music Majors	1
MU 123	Integrating Technology in Music	1
MU 215	Music Theory I	3
MU 217	Aural Skills I	1
MU 420	Jazz Band Pedagogy	1
MU 133 & MU 134	Group Piano I and Group Piano II	2
MU 206	Improvisation	2
Select one of the following:		
Keyboard		
MU 276 or MU 476	Applied Jazz Lessons	
Major Instrument		
MU 276 or MU 476	Applied Jazz Lessons	
Jazz Combo		2
MU 254 or MU 454	Small Ensembles-Lower Division or Small Ensembles-Upper Division	
Large Ensemble		2
Select one of the following:		
MU 245 or MU 445	Concert Jazz Ensemble II or Concert Jazz Ensemble	
Jazz Ensemble		
MU 249 or MU 449	Washburn Jazz Orchestra or Washburn Jazz Orchestra	
Total Hours		19

Natural Sciences and Mathematics

The Associate of Arts degree in Natural Sciences and Mathematics is intended to give students a broad background in a particular area of liberal studies. Students are required to take coursework in at least three disciplines within Natural Sciences and Mathematics and to take a concentration in one subject area. The credits earned in this associate

degree are all applicable toward a bachelor's degree. For information and advising on this degree, please contact the College of Arts and Sciences in Morgan Hall 209.

The Major

For the Associate of Arts Degree in Natural Sciences and Mathematics, a student must complete 60 semester hours with a minimum grade point average of 2.0. Twenty-four credit hours must be completed at Washburn University; of these, 12 of the last 24 must be Washburn University credits. Forty-two hours must be graded. A student may not take the A/pass/fail option in the area of concentration without obtaining written permission from the chairperson of the department offering the course and filing it with the University Registrar's Office. The application for degree should be on file before enrolling for the last 15 hours.

Student Learning Outcomes

Washburn University students completing this degree, upon graduation, are expected to have:

- Acquired an introductory knowledge of the basic principles of science and mathematics.
- Developed the ability to understand and utilize the scientific method.
- Acquired a foundation for continuing academic study.

Programs

- Natural Sciences and Mathematics, AA (p. 196)

Natural Sciences and Mathematics, AA

Degree Requirements

Code	Title	Hours
General Education		
EN 101	First Year Writing (or its equivalent)	3
MA 116	College Algebra (with a grade of C or better)	3
Humanities and Creative and Performing Arts ¹		6
Natural Sciences ¹		6
Social Sciences ¹		6
Subtotal		24
Area of Concentration ²		
Natural Sciences and Mathematics (from one subject area) ^{3, 4}		24
Subtotal		24
Electives		
Courses chosen from outside the area of concentration		12
Subtotal		12
Total Hours		60

¹ Six semester hours from at least two subject areas

² A minimum of a C grade is required in all courses within the area of concentration, including the six hours of general education in the Natural Sciences and Mathematics.

³ Coursework does not include six hours of Natural Sciences and Mathematics general education. Coursework will include at least six hours each from a minimum of three subject areas within the Natural Sciences and Mathematics.

⁴ These courses will be selected from a list developed by the faculty in that subject area and may include six hours of upper-division credit. The department from which the student takes the 12-hour concentration will be the effective administrative home of the student.

Peace, Justice, and Conflict Resolution Studies

Peace Studies is an interdisciplinary program of study, building on existing course offerings in a range of departments, that incorporates both international peace and justice issues and, through internship opportunities with community-based agencies, local dimensions of conflict resolution. Students will combine core courses in Peace Studies with elective courses from departments across campus that share a common theme of peace, justice, and conflict resolution. This minor is coordinated by the Dean of the College of Arts and Sciences. For more information, contact the minor director, Dr. Rachel Goossen, in the History department, and see the "Interdisciplinary Academic Programs (p. 45)" section in the catalog.

Philosophy

Department of Philosophy and Religious Studies

Website: www.washburn.edu/philosophy (<http://www.washburn.edu/philosophy/>)

Faculty

Associate Professor Ian Smith, PhD, Chair
Assistant Professor Rik Hine, PhD
Lecturer Justin Moss, PhD

Mission

Consistent with the missions of the University and the College of Arts and Sciences, the Department of Philosophy and Religious Studies is dedicated to providing high quality undergraduate courses in philosophy and religious studies, to providing the educational foundations for life-long critical thinking, to engaging in research and scholarly activities in these and related areas and to serving the University and its various communities. The Department emphasizes excellence in teaching undergraduate students.

Description of Discipline

Philosophy focuses on fundamental questions concerning the nature of reality, knowledge, and values: metaphysics seeks to understand the true nature of reality in general and of humankind in particular; logic and epistemology endeavor to determine valid methods of reasoning and the limits and criteria of knowledge; and ethics attempts to formulate the basic moral norms by which our choices and actions should be governed. Through the study of philosophy, students can improve their understanding of themselves and the world in which they live; they can increase their command of intellectually responsible methods of establishing and evaluating beliefs and theories; and they can develop more effective ways of determining their moral duties.

In general, the study of philosophy helps to develop the ability to think clearly. If one understands how to think clearly, one can apply the techniques of critical and constructive thinking to the study of any

discipline or to the concerns of any occupation. The department's philosophy curriculum provides an opportunity for all students, whether majoring in philosophy or not, to be educated in the methods of critical and constructive thought through reflection on the fundamental presuppositions of knowledge in general and of individual disciplines—such as science, mathematics, law, religion, and art—in particular.

Student Learning Outcomes

Philosophy students at Washburn University, upon graduation, are expected to be able to:

- Demonstrate the ability to think critically, using both natural and artificial languages.
- Demonstrate an understanding of the major figures and movements in Ancient, Modern, and Contemporary Philosophy.
- Explain important theories and the views of major figures in Metaphysics and Epistemology.
- Explain important theories and the views of major figures in Value Theory.
- Formulate and evaluate philosophical positions critically and systematically.
- Construct well-reasoned, well-integrated essays based on philosophical research.
- Defend philosophical positions in an oral format.

Departmental Honors

Philosophy majors desiring to earn departmental honors must successfully complete the college requirements for departmental honors.

Pre-Law

An individualized course of study for pre-law students may be designed in cooperation with the Department's pre-law advisor.

Programs

- Philosophy, BA (p. 199)
- Philosophy, Minor (p. 199)

Course Offerings

PH 100 Introduction to Philosophy (3)

Philosophy is introduced to students by a survey of major areas of Philosophy (e.g., metaphysics, epistemology, ethics, history of philosophy,) with an emphasis on traditional techniques of philosophical analysis and logical argument. Prerequisite: None.

(General Ed Humanities. Global Citizenship Ethics Div.)

PH 102 Ethics: Introduction to Moral Problems (3)

Rational decision-making procedures in moral theory and their application to specific moral problems and problem areas; e.g. racism and sexism; the moral status of animals; moral issues in sexual orientation.

(General Ed Humanities. Global Citizenship Ethics Div.)

PH 103 Introduction to Political Philosophy (3)

Philosophical examination of the central problems and ideas of Politics and the State; e.g., the legitimate nature and extent of the State; justification of political authority; rights of citizens.

PH 104 Introduction to Logic and Critical Thinking (3)

Students are exposed to general principles of thought and reason and to workable guidelines for improving their powers of rational thought. Prerequisite: None.

(General Ed Humanities. Critical and Creative Thinking.)

PH 105 Introductory Topics in Philosophy (1-3)

Topics will vary from semester to semester and will be announced in advance. May be repeated for credit when topics vary.

PH 115 Philosophy of Love & Sex (3)

An introduction to philosophical thinking about human love and sexual relationships. The course will examine fundamental questions such as "What is Love?" and "What is Perversion?" It will also raise moral questions dealing with the proper role and circumstances of sex, and deal with socio-sexual issues such as pornography and the sexist implications of sex.

(General Ed Humanities. Global Citizenship Ethics Div.)

PH 117 Creation, Evolution, Morality (2-3)

Evolutionary theory appears to hold that human beings are natural products of evolutionary forces, without special moral or religious status. What does this mean for morality? Can notions of right and wrong, good and evil, have a place in an evolutionary world? What are the religious implications of evolution? This course will consider these and other philosophical and moral issues raised by Darwinism.

(General Ed Humanities. Global Citizenship Ethics Div.)

PH 200 General Topics in Philosophy (1-3)

Topics will vary from semester to semester and will be announced in advance. May be repeated for credit when topics vary.

PH 201 Corrupting the Youth: Ancient Greek Philosophy (3)

It is probably no exaggeration to say that the entire Western intellectual cannon can trace its roots to the first Philosophers in fifth-century BCE Greece. By far the most famous, was Socrates. So, should we be disturbed that he was sentenced to death for 'corrupting the youth'? We will look at the claims he made that resulted in his execution, before focusing on the ways in which his student, Plato, built upon and systematized these ideas. We will close by looking at Plato's student, Aristotle, widely regarded as one of the most influential thinkers in human history, and of whom it has been said, "it is doubtful whether any human being has ever known as much as he did." Prerequisite: EN 101 or EN 102 with a grade of C or better.

(General Ed Humanities. Critical and Creative Thinking.)

PH 202 I think therefore I Am? Modern Philosophy 1600-1800 (3)

Contemporary scientific consensus seems to be that the Universe is an infinitely large machine, and that, ultimately, everything in it - including us - can be explained mathematically. But where did these notions come from, and why should we believe them? Is this really how the world is, and how can we find out? We will trace the origin of these claims to the sixteenth century. Rene Descartes, the 'father of modern philosophy', proclaimed, "I think, therefore I am." As one of the 'Rationalists' he argued that the world could be explained, mathematically, and through reason, alone. We will follow by investigating the 'Empiricists', who argued instead that the world could be known, if at all, only through experience.

We will finish in the eighteenth century with Immanuel Kant, who claimed that the world as we know it is in some sense a product of our own minds. Prerequisite: EN 101 or EN 102 with a grade of C or better.

(General Ed Humanities. Critical and Creative Thinking.)

PH 203 Introduction to Buddhist Philosophy (3)

An introduction to the basic problems, issues and theories of the Buddhist philosophical tradition, including: the four noble truths, the claim that there is no self as we normally understand it, and the claim that everything is impermanent and illusory. Prerequisite: EN 101 or 102 with grade of C or better.

(General Ed Humanities. Critical and Creative Thinking.)

PH 205 Existentialism (3)

Introduction to both theistic and atheistic existentialism through the study of some of the more prominent existentialists (e.g. Kierkegaard, Nietzsche, Sartre, Camus, Buber, Tillich), major existentialist themes (e.g., concrete individuality, freedom of choice, dread, alienation and death), and the influences of existentialist thought on contemporary literature, ethics, social and political theory, psychology and religion. Prerequisite: EN 101 or EN 102 with a grade of C or better.

PH 207 Existence of God (3)

An elementary course in Philosophy and Religion focusing upon the specific rational arguments which have been advanced for and against the existence of a supreme being. Prerequisite: EN 101 or EN 102 with a grade of C or better, or consent of the Instructor.

(General Ed Humanities. Critical and Creative Thinking.)

PH 211 Introduction to Ethical Theory (3)

Introductory survey of problems and positions in ethical theory: moral absolutism and moral relativism; moral decision-making theories, including Utilitarianism and Kant; evidence in moral argument. Prerequisite: EN 101 or EN 102 with a grade of C or better.

PH 214 Medical Ethics (3)

Philosophical examination of moral problems that arise in health care; e.g., professional-patient relationship; role and rights of the patient; truth-telling and confidentiality; abortion and euthanasia. Prerequisite: EN 101 or EN 102 with a grade of C or better.

(General Ed Humanities. Global Citizenship Ethics Div.)

PH 220 Symbolic Logic (3)

Analysis of argument forms, using symbolic logic as a primary tool. Prerequisite: None.

(General Ed Humanities. Quan and Sci Reason Lit.)

PH 300 General Topics in Philosophy (1-3)

Topics will vary from semester to semester and will be announced in advance. May be repeated for credit when topics vary.

PH 301 I think therefore I am? Modern Philosophy 1600-1800 (3)

Contemporary scientific consensus seems to be that the Universe is an infinitely large machine, and that, ultimately, everything in it – including us – can be explained mathematically. But where did these notions come from, and why should we believe them? Is this really how the world is, and how can we find out? We will trace the origin of these claims to the sixteenth century. René Descartes, the ‘father of modern philosophy’, proclaimed, “I think, therefore I am.” As one of the ‘Rationalists’ he argued that the world could be explained, mathematically, and through reason, alone. We will follow by investigating the ‘Empiricists’, who argued instead that the world could be known, if at all, only through experience. We will finish in the eighteenth century with Immanuel Kant, who claimed that the world as we know it is in some sense a product of our own minds. Prerequisites: EN 101 or EN 102 with a grade of C or better AND either PH 100, 201, 203, or 207 with a grade of C or better.

PH 302 Philosophy of Religion (3)

Analyzes basic religious concepts such as God, faith, the problem of evil, etc. and looks closely at the meaning of religious language. Prerequisite: PH 201 or PH 301 with a grade of C or better, or consent of the instructor.

PH 303 Topics-History of Philosophy (3)

Advanced study of a major period, movement, or individual in the History of Philosophy. May be repeated for credit when topics vary. Prerequisite: PH 201 or PH 301 with a grade of C or better, or consent of the instructor.

PH 311 Issues in Ethical Theory (3)

Specific issues in the philosophical study of morality; e.g., the objectivity of moral judgments, the place of reason in moral thinking, proof of basic moral principles, the status of moral language. Prerequisite: At least one of the following: PH 100, PH 102, PH 201, PH 202, PH 211 or PH 301 with a grade of C or better.

PH 312 Social-Political Philosophy (3)

Current problems in social and political philosophy including but not limited to distributive justice, reparations, liberalism, alienation, radicalism, freedom and natural rights, social decision procedures, the concept of public interest, and the relationship between justice and equality. Prerequisite: At least one of the following: PH 100, PH 102, PH 103, PH 201, PH 211 or PH 301 with a grade of C or better.

PH 313 Professional Ethics (3)

The study of complex ethical issues that arise in professions such as medicine, finance, law, journalism, engineering, and others. Issues examined include, but are not limited to those that are found across many different professions: whistleblowing and loyalty, truth-telling and lying, privacy and confidentiality, and issues of social responsibility for professionals. 3 credit hours of Philosophy, or instructor's consent. Prerequisite: At least one of the following: PH 100, PH 102, PH 103, PH 201, PH 202, or PH 211 with a grade of C or better (General Ed Humanities. Global Citizenship Ethics Div.)

PH 315 Philosophy of Law (3)

A philosophical examination of such topics as the fundamental concept of law; relations between legal theory and moral theory; the nature of legal reasoning; justification of punishment. Prerequisite: 3 credit hours of Philosophy with a grade of C or better. (General Ed Humanities. Global Citizenship Ethics Div.)

PH 320 Advanced Logic (3)

Advanced study of logical theory and language calculi. Prerequisite: PH 220 with a grade of C or better.

PH 325 Philosophy of Mathematics (3)

Philosophical aspects of mathematics, including the foundation of mathematics, the nature of mathematical truth, and the ontological status of mathematical objects. Prerequisite: PH 220 or MA 207 with a grade of C or better.

PH 327 Philosophy of Science (3)

Philosophical aspects of the physical and social sciences, including the nature and problems of theory construction and concept formation, empirical testability, explanation and prediction, and problems of induction and confirmation. When the topics studied differ significantly, this course may be repeated for credit. Prerequisite: PH 104 or PH 200 with a grade of C or better.

PH 330 Philosophy of Mind (3)

Classical and contemporary treatments of the traditional problems of mind-body, other minds, mental acts, self, persons, perception etc. Prerequisite: PH 100, PH 201 or PH 301 with a grade of C or better, or consent of the instructor.

PH 335 Metaphysics (3)

Alternative theories of the nature of ultimate reality, including concepts such as cause, substance, time, etc. Prerequisite: PH 201 or PH 301 with a grade of C or better, or consent of the instructor.

PH 340 Aesthetics (3)

A philosophical approach to such questions as the nature of art, aesthetic value, and art criticism. Prerequisite: PH 201 or PH 301 with a grade of C or better, or consent of the instructor.

PH 386 Special Studies (1-3)

Individual study in the thought of a particular philosopher or on a particular philosophical problem. Regular conferences to be scheduled with the professor directing the study. May be repeated for credit. Prerequisites: 9 hours of Philosophy, and permission in advance by the professor with whom the student desires to work.

PH 398 Senior Thesis Preparation (3)

Independent research in preparation for a senior thesis. Students will complete preliminary research in the area of their senior thesis and prepare a thesis proposal. In addition, students will complete the portfolio project which asks them to submit a folder containing philosophy papers from previous courses along with their reflection upon their development over time in writing such papers. The proposal completed in PH 398 may not be or have been submitted for credit in any other course. Prerequisite: Senior Philosophy Major

PH 399 Senior Thesis (3)

Independent research, writing and defense of a substantial paper, under faculty supervision. Work completed in PH 398 and PH 399 may not be or have been submitted for course credit in any other course. Prerequisite: PH 398 with a grade of C or better.

Philosophy, BA

Degree Requirements

The Philosophy major consists of 33 hours of Philosophy distributed as follows:

Code	Title	Hours
Required Courses		
PH 201	Corrupting the Youth: Ancient Greek Philosophy	3
PH 220	Symbolic Logic	3
PH 301	I think therefore I am? Modern Philosophy 1600-1800	3
PH 303	Topics-History of Philosophy	3
PH 398	Senior Thesis Preparation	3
PH 399	Senior Thesis	3
Value Theory		
Select at least two of the following:		6
PH 200	General Topics in Philosophy ¹	
PH 211	Introduction to Ethical Theory	
PH 214	Medical Ethics	
PH 300	General Topics in Philosophy ¹	
PH 311	Issues in Ethical Theory	
PH 312	Social-Political Philosophy	
PH 313	Professional Ethics	
PH 315	Philosophy of Law	
PH 340	Aesthetics	
PH 386	Special Studies ¹	
Metaphysics and Epistemology		
Select at least two of the following:		6
PH 200	General Topics in Philosophy ¹	

PH 203	Introduction to Buddhist Philosophy	
PH 205	Existentialism	
PH 207	Existence of God	
PH 300	General Topics in Philosophy ¹	
PH 302	Philosophy of Religion	
PH 320	Advanced Logic	
PH 325	Philosophy of Mathematics	
PH 327	Philosophy of Science	
PH 330	Philosophy of Mind	
PH 335	Metaphysics	
PH 386	Special Studies ¹	
Subtotal		30
Electives		
Philosophy Elective credit ²		3
Subtotal		3
Total Hours		33

¹ If course material is appropriate (Chair's discretion).

² A 100-level course may count toward this elective credit, but only with the permission of the Chair.

At least 15 hours of the 33 (in addition to PH 398 Senior Thesis Preparation/PH 399 Senior Thesis) must be at the 300 level.

Philosophy, Minor

Minor Requirements

Minor programs in Philosophy are individually designed by the student in consultation with a departmental advisor and subject to departmental approval. A minor will consist of at least 15 hours in Philosophy, including six upper division hours. Courses may be broadly selected or may be concentrated in an area of particular interest.

Physics

Department of Physics and Astronomy

Website: www.washburn.edu/physics (<http://www.washburn.edu/physics/>)

Faculty

Associate Professor Karen Camarda, PhD, Chair
 Professor Brian Thomas, PhD
 Assistant Professor Vincent Rossi, PhD
 Lecturer Tandra Eifert, PhD
 Senior Lecturer Keith Mazachek, PhD
 Lecturer Mark Smith, PhD

Mission

The mission of the Physics and Astronomy Department is to engage our community in an impassioned and continued search for intellectual growth in the fields of physics, astronomy, engineering, and geology. The department will accomplish this mission by: offering general education courses to all students; providing a comprehensive and personalized foundation for majors, which will prepare them for a career in their chosen field; performing research and scholarship which broadens the horizons of knowledge and informs our teaching, and; providing public access to the planetarium and observatory and conducting educational

programs in physics, astronomy, engineering, and geology for the intellectual enrichment of the citizens of the state of Kansas.

Student Learning Outcomes

Physics students at Washburn University, upon graduation, are expected to have:

- Acquired an understanding of the vocabulary and methodology of physics.
- Demonstrated the ability to move from observations to logical conclusions, and apply analytical thinking.
- Acquired knowledge of the subject matter in terms of content, problem solving, experimental design, data reduction and analysis.

Departmental Honors

Students are eligible to receive departmental honors upon graduation if they fulfill the following minimum requirements:

- A grade point average of 3.5 in the major, including a 3.5 in upper-division work in the major.
- Successful completion of PS 360 Physics Research or PS 368 Computational Physics Research.
- Service to the Department, or to the community relevant to the major.
- The recommendation of the Department.

Programs

- Physics, BS (p. 201)
- Physics, BA (p. 202)
- Computational Physics, BS (p. 202)
- Engineering Physics, AS (p. 202)
- Physics, Minor (p. 202)

Course Offerings

PS 101 Introduction to Physics (3)

For non-majors. Recommended for partial fulfillment of the graduation requirement in natural science. Selected topics from the field of classical and modern physics are studied and discussed in terms of their impact on modern society without mathematical emphasis.

(General Ed Natural Science. Quan and Sci Reason Lit.)

PS 108 Physical Science (3)

Introduces basic physics and chemistry with an emphasis on the understanding and significance of accepted fundamental principles. It provides an opportunity to develop critical thinking suited to pursuing any science, as well as giving a larger perspective than can be obtained by study of a single science. Explores contemporary issues as well as the methods, limitations, and societal implications of scientific advancement. Students will be encouraged to explore the relationship between science and everyday life. For non-majors. Recommended for partial fulfillment of the graduation requirement in natural science. Prerequisite: MA 112 Essential Mathematics or MA 116 College Algebra or higher, or concurrent enrollment.

(General Ed Natural Science. Quan and Sci Reason Lit.)

PS 120 Meteorology (3)

The Earth's atmosphere and basic circulation patterns including types and classification of clouds and air masses, the formation of fronts, winds aloft computations, principles of forecasting, energy considerations and other associated physical processes. Prerequisite: MA 104 or one and one-half years of High School algebra.

(General Ed Natural Science. Quan and Sci Reason Lit.)

PS 126 Physical Science for Elementary Educators (5)

This course provides an introduction to the fundamentals of physics and chemistry, for the pre-service elementary school teacher. Course activities are inquiry-based, serving to improve confidence in both scientific process and content learning, with methods applicable to elementary curricula.

(General Ed Natural Science. Quan and Sci Reason Lit.)

PS 131 Biological Physics for the Health and Life Sciences (3)

A one-semester course covering classical and modern physics, designed primarily for students in the health professions. Typical subjects include the laws of motion, gravity, heat, sound, light, electricity, and magnetism. Subjects are treated conceptually along with the use of basic data. Recommended for partial fulfillment of the graduation requirement in natural science. Not applicable toward credit for physics major requirements. Students will not receive credit for both PS 101 and PS 131. Prerequisite: MA 112 Essential Mathematics or MA 116 College Algebra or higher, or concurrent enrollment.

(General Ed Natural Science. Quan and Sci Reason Lit.)

PS 132 Biological Physics for the Health and Life Sciences Laboratory (1)

A laboratory exploring classical and modern physics, designed primarily for students in the health professions. Experiments in motion, gravity, heat, sound, light, electricity, and magnetism are designed to teach physics concepts and basic laboratory techniques. The course is designed to introduce students to laboratory techniques used in physics emphasizing instrumentation, data acquisition, and analysis. One three-hour laboratory period per week. Recommended for partial fulfillment of the graduation requirement in natural science. Not applicable toward credit for physics major requirements. Prerequisite: PS 131 Biological Physics for the Health and Life Sciences or concurrent enrollment. Concurrently enrolled students may not drop PS 131 and remain enrolled in PS 132.

PS 261 College Physics I (5)

Recommended for medical arts and general science students. Mechanics, heat, and sound are studied. Lecture-recitation and laboratory. Prerequisite: MA 117 or MA 123 or MA 151 (or concurrent).

(General Ed Natural Science. Quan and Sci Reason Lit.)

PS 262 College Physics II (5)

A continuation of College Physics I. Electricity, optics and modern physics. Lecture-recitation and laboratory. Prerequisite: PS 261 with a grade of C or better.

PS 281 General Physics I (5)

Required for students who wish to major in physics and astronomy and for pre-engineering students. Mechanics, heat, and sound are studied. Lecture-recitation and laboratory. Prerequisite: MA 151.

(General Ed Natural Science. Quan and Sci Reason Lit.)

PS 282 General Physics II (5)

A continuation of General Physics I. Electricity and magnetism, optics, and modern physics. Lecture-recitation and laboratory. Prerequisite: PS 281 with a grade of C or better.

PS 291 Elementary Computational Physics (2)

An introduction to computer modeling of physics problems using spreadsheet programs, computer algebra systems, and other mathematical software. Prerequisite: MA 151 or concurrent.

PS 310 Relativity (2)

Concepts of space and time, frames of reference, Einstein's Theory of Special Relativity and Elements of General Relativity. Prerequisite: PS 262 or PS 282; MA 253.

PS 318 Earth and Space Science for STEM Educators I (3)

Designed to introduce the history, structure, composition, and dynamic processes that shape our planet, as well as the impact humans have on Earth's resources, to STEM educators. Connects astronomy and geology through the study of planetary science and exploration. This course does not satisfy any physics requirement outside of the STEM education program. Prerequisites: CH 317 with a letter grade of C or higher; concurrent enrollment in ED 318.

PS 320 Electromagnetic Theory I (3)

The basic theory of electro-magnetic fields and waves using the calculus and vector methods. Prerequisites: PS 262 or PS 282; MA 253.

PS 321 Electromagnetic Theory II (3)

A continuation of Physics 320. Prerequisite: PS 320.

PS 322 Circuits and Electronics (0-3)

Design and applications of DC and AC circuits along with electrical measurement and analysis. Topics include filters, complex impedance, Fourier analysis, and semiconductor devices. Two lecture hours and three laboratory hours per week. Prerequisite: PS 262 or PS 282.

PS 330 Optics (3)

Physical and geometrical optics. Lecture-recitation. Prerequisite: PS 262 or PS 282.

PS 332 Optics Lab (1)

Experiments with lens systems, mirrors, aberrations, the spectrometer, interference and diffraction, and polarization. Prerequisite: PS 330 or concurrent enrollment.

PS 334 Thermodynamics (3)

Consideration of heat phenomena, first and second laws of thermodynamics, their principal consequences and application to simple systems, and the kinetic theory of gases. Prerequisite: PS 262 or PS 282; MA 253.

PS 335 Theoretical Mechanics I (3)

A mathematical study of classical mechanics. Rigid body statics and dynamics, kinematics and dynamics of particles and systems of particles, and conservative and non-conservative force fields. Prerequisites: PS 262 or PS 282; MA 253.

PS 336 Theoretical Mechanics II (3)

A continuation of Theoretical Mechanics I. Prerequisite: PS 335.

PS 340 Computer Interfacing and Instrumentation (3)

Design and implementation of scientific instruments via computer interfacing, emphasizing both software and hardware considerations. LabVIEW and Arduino platforms are used specifically. Two lecture hours and one three-hour laboratory per week. Prerequisites: PS 262 or PS 282

PS 350 Modern Physics I (3)

Phenomena specific to the extra-nuclear structure of the atom; phenomena peculiar to the atomic nucleus; introduction to quantum and wave mechanics, and relativity. Prerequisites: PS 262 or PS 282; MA 253.

PS 351 Modern Physics II (3)

A continuation of Physics 350. Prerequisite: PS 350.

PS 352 Modern Physics Laboratory (1)

Measurements of constants fundamental to atomic physics: Planck's constant, electron charge and mass, speed of light, etc. Techniques of nuclear alpha, beta and gamma ray spectroscopy. Prerequisite: PS 350.

PS 360 Physics Research (1, 2)

Experimental design and techniques. Extensive use of technical literature will be necessary. Independent work is encouraged. This Capstone requires summative reflection, serving as a culminating experience for Bachelor's degree students. Prerequisite: Consent of instructor.

PS 365 Introduction to Theoretical Physics (3)

Application of ordinary and partial differential equations, Fourier series and Transforms, partial differential equations with solution methods, and tensor analysis as applied to problems in the fields of physics and engineering. Prerequisites: PS 262 or PS 282 or concurrent enrollment; MA 253.

PS 366 Introduction to Computational Physics (3)

Techniques and models in computational physics. Prerequisites: PS 262 or PS 282; MA 253.

PS 368 Computational Physics Research (3)

Computational physics research in any of the areas of physics. A written and an oral presentation of the work is required. This Capstone requires summative reflection, serving as a culminating experience for Bachelor's degree students. Prerequisite: Departmental permission.

PS 370 Special Subjects in Physics (1-3)

Offered on demand as teaching schedules permit. Material is to be chosen according to student interest from any one of a number of fields of physics. Prerequisite: consent of instructor.

Physics, BS

Degree Requirements

To major in **Physics with a Bachelor of Science Degree**, one must satisfactorily complete:

Code	Title	Hours
Select one of the following physics sequences:		10
PS 261 & PS 262	College Physics I and College Physics II	
PS 281 & PS 282	General Physics I and General Physics II	
PS 320	Electromagnetic Theory I	3
PS 330	Optics	3
PS 334	Thermodynamics	3
PS 335	Theoretical Mechanics I	3
PS 350	Modern Physics I	3
PS 360	Physics Research	1,2
PS 365	Introduction to Theoretical Physics	3
PS 366	Introduction to Computational Physics	3
Select two of the following upper division laboratory courses		2-5
PS 322	Circuits and Electronics	
PS 332	Optics Lab	
PS 340	Computer Interfacing and Instrumentation	
PS 352	Modern Physics Laboratory	

Written (Major Field Test) examination

Total Hours

34-38

Credits in PS 101 Introduction to Physics, PS 120 Meteorology, PS 126 Physical Science for Elementary Educators, PS 131 Biological Physics for the Health and Life Sciences and PS 132 Biological Physics for the Health and Life Sciences Laboratory and AS 101 Introduction to Astronomy/ Cosmology, AS 102 Introduction to Astronomy - Solar System and AS 103 Observational Astronomy will not be allowed toward a major in physics. Credit in all other courses in astronomy may be applied toward a major or minor in physics.

Physics, BA

Degree Requirements

To major in **Physics with a Bachelor of Arts Degree**, one must satisfactorily complete 25 hours in Physics including 12 upper division hours. At least 6 hours of major courses in the Department must be taken in residence at Washburn University.

Computational Physics, BS

Degree Requirements

To major in **Computational Physics with a Bachelor of Science Degree**, one must satisfactorily complete:

Code	Title	Hours
Required Courses		
Select one of the following physics sequences:		10
PS 261 & PS 262	College Physics I and College Physics II	
PS 281 & PS 282	General Physics I and General Physics II	
PS 291	Elementary Computational Physics	2
PS 320	Electromagnetic Theory I	3
PS 330	Optics	3
PS 334	Thermodynamics	3
PS 335	Theoretical Mechanics I	3
PS 340	Computer Interfacing and Instrumentation	3
PS 350	Modern Physics I	3
PS 365	Introduction to Theoretical Physics	3
PS 366	Introduction to Computational Physics	3
PS 368	Computational Physics Research	3
Written (Major Field Test) examination		
Subtotal		39
Correlated Courses		
<i>Computer Information Sciences</i>		
CM 111	Introduction to Structured Programming	4
CM 113	Visual Programming	3
CM 245	Contemporary Programming Methods	3
CM 307	Data Structures & Algorithmic Analysis	3
CM 390	Special Topics/Computer Information Science	1-4
<i>Mathematics and Statistics</i>		
MA 151	Calculus & Analytic Geometry I	5
MA 152	Calculus & Analytic Geometry II	5
MA 253	Calculus/Analytic Geometry III	3
MA 206	Discrete Mathematics for Computing	3

MA 301	Linear Algebra	3
MA 331	Differential Equations	3
MA 343	Applied Statistics	3
Subtotal		39-42
Total Hours		78-81

Engineering Physics, AS

Degree Requirements

To major in Engineering Physics with an Associate of Science Degree, one must satisfactorily complete:

Code	Title	Hours
Required		
EG 250	Engineering Mechanics: Statics	3
EG 351	Engineering Mechanics: Dynamics	3
PS 281 & PS 282	General Physics I and General Physics II	10
Subtotal		16
Correlated Courses		
MA 151 & MA 152 & MA 253	Calculus & Analytic Geometry I and Calculus & Analytic Geometry II and Calculus/Analytic Geometry III	13
CH 151 or BI 102	Fundamentals of Chemistry I General Cellular Biology	5
Subtotal		18
Electives		
Elective courses (p. 202)		12
Subtotal		12
Total Hours		46

Electives

Code	Title	Hours
BI 102	General Cellular Biology	5
CH 151	Fundamentals of Chemistry I	5
CH 152	Fundamentals of Chemistry II	5
EG 116	Engineering Graphics	3
EG 360	Mechanics of Materials	3
MA 301	Linear Algebra	3
MA 331	Differential Equations	3
Any upper-division Physics courses		3

Physics, Minor

Minor Requirements

To minor in Physics, the student must complete 20 hours in physics which will consist of:

Code	Title	Hours
Required Courses ¹		
Select one of the following physics sequences:		10
PS 261 & PS 262	College Physics I and College Physics II	

PS 281 & PS 282	General Physics I and General Physics II	
Physics courses ²		10
Total Hours		20

¹ To count toward a minor work must be graded C or better and 25 percent of total minor hours must be taken in residence at Washburn University.

² Requiring PS 261 College Physics I, PS 262 College Physics II or PS 281 General Physics I, PS 282 General Physics II as prerequisites

Political Science and Public Administration

Department of Political Science

Website: www.washburn.edu/polisci (<http://www.washburn.edu/polisci/>)

Faculty

Professor Bob Beatty, PhD, Chair
Associate Professor Linsey Modellmog, PhD
Assistant Professor, Amber Dickinson, PhD
Lecturer Grant Armstrong, PhD

Mission

Consistent with the missions of the University and the College of Arts and Sciences, the Department of Political Science offers students the opportunity to deepen and broaden their knowledge of the theories and functions of politics, policy and governance which regulate the civic interactions of both peoples and sovereignties in the United States of America and internationally. Students enrolled in the offerings of the department will learn to critically examine the laws, organizations, political practices and public behaviors/involvements in the workings of governments both foreign and domestic. Through engaged teaching, guided practical involvement, and mentored scholarly research, faculty contribute to the intellectual development of students who acquire skills for the examination and understanding of the discipline. In addition to the academic/classroom experience, opportunities are provided for observation, participation in, and assessment of the political environment through internships, field study, and the opportunity to experience and interact with public officials, analysts and policy experts through course offerings and events.

Description of the Discipline

Political Science is the study of governments, public policies and political behavior using both humanistic and scientific perspectives and skills to examine the countries and regions of the world. See www.apsanet.org (<http://www.apsanet.org>).

The Political Science Department administers the two degrees of political science (BA) and public administration (BPA), and a Certificate of Non-Profit Management (see also the Department of Human Services).

The Bachelor's degree in Political Science (BA) seeks to prepare well-rounded students who understand politics and policies domestically, internationally, theoretically, and administratively. The BA in Political Science is for those who plan to go on to graduate or law school, careers in public affairs or public employment, or who seek a well-rounded liberal arts education in preparation for any number of life callings.

The Department offers a Bachelor of Public Administration degree (BPA) that emphasizes public and non-profit management. We also offer jointly with the Department of Human Services in the School of Applied Studies the Certificate of Non-Profit Management.

Student Learning Outcomes

Political Science students at Washburn University, upon graduation, are expected to have acquired knowledge in four of the following five subfields:

- The political institutions and processes of the governments of the United States.
- International political issues, significant international organizations, and the world political economy.
- The field of comparative political institutions and political processes.
- The field of public administration, its processes, and the general principles and problems of complex public organizations.
- Interpret the meaning and significance of political data.

Departmental Honors

3.5 overall GPA and a 3.5 Political Science/Public Administration GPA (All Political Science/Public Administration courses taken. Cognates for the BPA are not counted in the major GPA calculation, but must be C or better to count towards the degree).

Programs

- Political Science, BA (p. 205)
- Bachelor's Degree (BPA) in Public Administration (p. 206)
- Government and Political Science Secondary Education, BEd (p. 206)
- Political Science, Minor (p. 207)
- Public Administration, Minor (p. 207)
- Certificate of Non-Profit Management (p. 208)

Course Offerings

PO 106 The Government of the United States (3)

Theory, organization and functioning of our democratic government in modern society with special emphasis on the national government and its relations with the states. The role of government in a democratic society as a supplier of services, the embodiment of values and the arbiter of conflict is stressed.

(General Ed Social Science. Global Citizenship Ethics Div.)

PO 107 Kansas and the U.S., State and Local Government (3)

Examines American state and local politics, government, and public policies from the grassroots to the institutional level with a particular emphasis on the similarities and differences that exist in Kansas in comparison to the characteristics found in the rest of the states. Contrasting the fundamental differences between states and localities and the national government is also an emphasis of the course.

(General Ed Social Science. Global Citizenship Ethics Div.)

PO 225 Introduction to International Politics (3)

Theory and practice of international politics with special attention to foreign policy and decision-making process, major issues facing the international system, the role and functions of international and transnational organizations with respect to conflict and cooperation in the international community.

(General Ed Social Science. Critical and Creative Thinking.)

PO 235 Governments of the World: Comparative Politics (3)

Examines selected governments of the world. Basic concepts, theories and methods in comparative analysis of political institutions, processes, and policies of nations. Case studies of selected political systems developed and developing, Western and non-western, democratic and non-democratic illustrate the analytical approaches.

(General Ed Social Science. Global Citizenship Ethics Div.)

PO 245 Introduction to Public Administration (3)

Designed to acquaint the student with the organization and functioning of the administration of government. Includes introduction to theories of administration, policy and administration values, study of the governmental bureaucracy and administrative behavior.

PO 255 Introduction to the American Legal System (3)

Designed to acquaint the student with the basic institutions and procedures of the American legal system. Also a very basic introduction to substantive areas of American law such as: torts, contracts, civil procedure, regulation of business.

(General Ed Social Science. Critical and Creative Thinking.)

PO 300 Special Topics/Political Science (1-3)

Topics will vary from semester to semester and will be announced in advance.

PO 305 Public Policy (3)

Examines the role of government as a supplier of services to its citizens. It will cover the following topics: the nature of politics and policy, social problem identification and articulation, interest groups and the formation of public policy, the analysis of policy content, policy implementation, and policy evaluation.

PO 306 Urban-Metropolitan Government (3)

Analysis of historical, political, economic, and social development of urban America. Emphasis will be placed on discussion of contemporary urban problems through investigation of the legal status of municipal and county governments, machine, reform, and ethnic politics, socioeconomic class status and urban society, community power, forms of participation in urban politics, the problems and politics of urban policymaking, and suggestions for improving urban-metro governments.

PO 307 Internship - State or Local Government (3-6)

Experience in an operating office of state or local government in order to gain insight into government at these levels. Problem paper required. Prerequisites: Political Science 107 and/or consent of instructor. Junior or Senior standing.

PO 308 American Elections and Federalism (3)

Examines American national elections in the context of the American federal system. A study of the nature, patterns, and impact of American federalism, including historical, fiscal, economics, policy and political significance.

PO 309 Kansas Legislative Experience (3)

Analysis of the Kansas legislature and governor, along with other state-wide offices and the media – how all function within the governmental system of Kansas. Along with an in-depth study of the legislative session, the student will be required to attend legislative committee meetings, floor debates, and gubernatorial press conferences. Students will also conduct participant observation within a legislative or executive branch office. No prerequisites.

PO 325 Advanced International Relations (3)

The course will examine traditional realist approaches to international power; alternative perspectives to power politics; American foreign policy; and understandings of the roots and resolution of international conflict.

PO 332 Politics through Film & Literature (3)

Exposes students to the nature and varied dynamics of politics through film and literature. Emphasis will be placed on classical, modern, and post-modern understandings of politics as expressed in film and literature with the expectation of sharing an informed and inviting view of politics in the Western world. No prerequisites.

PO 335 Advanced Comparative Politics (3)

A study of the governments politics, policies and political cultures of the countries in particular regions of the world e.g. Latin America, Central and Western Europe, or China, Japan and Eastern Asia. Analysis of the political processes, government institutions, national and multi-national alliances, public policies, political economies, cultures, interest groups and leaders that shape the political landscapes of the particular region covered in a given semester constitutes the scope of each semester's class. A specific emphasis on the forces of political and economic change will be central to the course.

PO 337 Religions and Politics (3)

Describes the many current trends of religions and politics in the U.S. focusing on the major religions and their political teachings, considerable political power and activism in contemporary American politics, society and life. Prerequisite: 3 hours of political science, or consent of the instructor.

PO 343 Administrative Law (3)

The scope of the law as it applies to administrative agencies of the government. Focuses on the powers of agencies, administrative rule-making, regulatory activities, due process, and judicial review of administrative actions.

PO 346 Problems in Public Administration (3)

Problems and cases involved in administering public policy.

PO 371 Topics: American Politics and Government (3)

At the discretion of the instructor this course may investigate any aspect of the theories, institutions, contexts, or contemporary problems of American politics and government. Chief subject elements they include are the various branches of American government, federalism, constitutionalism, the roles of the press, public opinion, interest groups and non-governmental policy and service institutions, and the various policy fields of the government, e.g. economic, welfare, education, public health, and military defense.

PO 372 Topics: Comparative Politics (3)

At the discretion of the instructor this course may investigate any aspect of the theories, institutions, contexts, or contemporary problems of comparative politics. Chief subject elements may include regional international alliances, democratization, non-democratic governmental systems, international political economy, human rights issues, global trade, the international political implications of immigration, food production, environmental degradation and restoration, species migration, and climate change.

PO 373 Topics-International Relations (3)

At the discretion of the instructor this course may investigate any aspect of the theories, institutions, contexts, or contemporary problems of international relations. Chief subject elements may include theories of nation-state interaction, negotiation, and war, American foreign policy, and examining aspects of changing global hegemonic power.

PO 374 Topics-Public Administration (3)

At the discretion of the instructor this course may investigate any aspect of the theories, institutions, contexts, or contemporary problems of the field of Public Administration including but not limited to: the theories of bureaucratic administration; public law; personnel management and labor relations; organizational theory, management and behavior; public policy making, implementation, and evaluation; intergovernmental relations; leadership; public finance, budgeting and auditing.

PO 386 Directed Readings (1-3)

Readings in the selected fields of Political Science. May be taken until three credit hours are earned. This course is repeatable for another 1-3 hours if the topic areas differ. Prerequisite: Senior Political Science major or approval of the department head.

PO 390 Applied Political Research (3)

Introduction to utilization of basic research techniques in public administration and political science.

PO 391 Public Personnel Administration (3)

The principles and techniques involved in managing public employees. Particular attention is given to staffing, separation, and administrative functions related to public employment.

PO 393 Public Budgeting (3)

The politics of planning, financing, and managing governmental budgets at the national, state, and local levels.

PO 394 Public Management Techniques (3)

A study of the differences in the setting of the management of the various kinds of public organizations, and a survey of the basic techniques of strategic planning, fund-raising, decision-making, community inter-organization development, leadership, negotiations, mission definition, policy analysis and evaluation for maximum effectiveness in the public sector.

PO 395 Non-Profit Management (3)

A survey of the various forms and particular differences of the management and operation of Non-Profit organizations as distinguished from traditional government administration.

PO 396 Topics in Applied Research (3)

This is an expansion of the methodological foundation laid in PO 390, the required methodology course for PO majors. In this course the basic techniques and tools introduced in PO 390 are reviewed and expanded to include contemporary techniques in multi-variate analysis. Students will also be expected to develop and complete research inquiries into relevant quantitative and/or qualitative data, and prepare and present their analysis before a departmental audience. Prerequisite: PO 390 or by permission of the course instructor.

PO 397 Advanced Applied Research (3)

This is an advanced course in social science research methodology involving instruction and student participation in various aspects of the research enterprise as used by political campaign staffs, consultants, public agencies and other public policy investigative organizations. Possible areas of investigation include but are not limited to survey research design, questionnaire development and testing, focus group research, quasi-experimental research design and execution, qualitative research tools, multi-variate statistical analysis, OLS regression analysis, data description, and presentation formatting. Prerequisite: PO 390 or by permission of the course instructor.

PO 401 Program Evaluation Methods (3)

The most vital methods of evaluating the effects of programs and agency goals of government and non-profit agencies.

PO 450 Political Science Seminar (1)

Required course for all political science majors and should be taken spring of the student's junior year. Course is a review of major areas of political science and also helps students develop skills and gain insight into preparing for post-graduate study and careers. Student proficiency in the discipline will be measured by a national performance exit exam over areas of political science.

Political Science, BA

Degree Requirements

Brief General Description: At least 34 credit hours in Political Science are required, to be distributed as follows:

Code	Title	Hours
Required Courses		
PO 106	The Government of the United States	3
PO 107	Kansas and the U.S., State and Local Government	3
PO 225	Introduction to International Politics	3
PO 235	Governments of the World: Comparative Politics	3
PO 308	American Elections and Federalism	3
PO 372	Topics: Comparative Politics	3
PO 373	Topics-International Relations	3
PO 390	Applied Political Research	3
PO 450	Political Science Seminar	1
Subtotal		25
Upper Division Courses		
Select nine credit hours from the following:		9
PO 371	Topics: American Politics and Government	
PO 372	Topics: Comparative Politics	
PO 373	Topics-International Relations	
PO 374	Topics-Public Administration	
PO 396	Topics in Applied Research	
PO 397	Advanced Applied Research	
Subtotal		9
Total Hours		34

Optional coursework option:

Code	Title	Hours
Major Requirements		
Complete major requirements		34
Optional		
Select 0-6 hours of optional coursework ¹		0-6
Total Hours		34-40

¹ can be any Political Science designated class

PO 325 Advanced International Relations, PO 335 Advanced Comparative Politics, PO 372 Topics: Comparative Politics, PO 373 Topics-International Relations, and PO 374 Topics-Public Administration are repeatable provided the topic area covered is different. Elective courses for internships (PO 307 Internship - State or Local Government and PO 309 Kansas Legislative Experience) are offered. Students are cautioned not to exceed 40 course credit hours in the major. Students are urged to discuss

the pros and cons of concentrating coursework in a particular subfield with their academic advisors.

Bachelor's Degree (BPA) in Public Administration

Mission

The Bachelor of Public Administration and Nonprofit Management Degree is offered through the Department of Political Science. The aim of these programs is to prepare students to serve as ethical leaders and managers in public and nonprofit settings. Students are able to identify practices in organizations that will enhance the pillars of public service: effectiveness, economy, efficiency, and equity. Pre-service and mid-career students will develop skills and knowledge to support public and third sector agencies including, but not limited to: management; funding; human resources; organizational theory; budgeting; assessment; policy; research; leadership; federal, state, and local government; and program evaluation.

The Political Science Department and the Family and Human Services Department also jointly offer a Certificate of Nonprofit Management.

Student Learning Outcomes

Public Administration Students at Washburn University, upon graduation, are expected to have acquired basic knowledge in the following subfields:

- Apply organizational, managerial, economic, leadership, and political theory to public and nonprofit issues.
- Utilize ethical decision-making practices to enhance or improve service provision to the public.
- Analyze how equity, efficiency, effectiveness, and economy can create conflicting goals and outcomes for agencies.
- Demonstrate skills related to budgeting, funding, managing, and administering public and nonprofit organizations in global and U.S. settings.
- Effectively communicate in public and in writing with citizens, stakeholders, clients, and other public entities.

Degrees and Certificates

The Bachelor in Public Administration (BPA) emphasizes Public and Non-Profit Management. The Bachelor of Public Administration (BPA) degree leads to employment in state or local governments, non-profit agencies, the national government, or certain aspects of business relating to human resources management, government relations or government regulations. The BPA degree requires 24 credit hours of cognate courses 15 of which fulfill general education requirements, and not more than 40 political science and public administration credit hours as described below. The Department is active in seeking internships in public and nonprofit agencies for Juniors and Seniors, leading in some cases to full-time employment.

Degree Requirements

Required Courses for the BPA Major (27 to 30 credit hours):

Code	Title	Hours
Required Courses		
PO 107	Kansas and the U.S., State and Local Government	3

PO 245	Introduction to Public Administration ¹	3
PO 305	Public Policy	3
PO 307	Internship - State or Local Government	3-6
or PO 309	Kansas Legislative Experience	
PO 390	Applied Political Research	3
PO 391	Public Personnel Administration	3
PO 393	Public Budgeting	3
PO 394	Public Management Techniques	3
PO 401	Program Evaluation Methods	3
or HS 495	Research and Evaluation	
Subtotal		27-30
PO Electives		
Select 9 to 12 credit hours from the following:		9-12
PO 306	Urban-Metropolitan Government	
PO 308	American Elections and Federalism	
PO 343	Administrative Law	
PO 346	Problems in Public Administration	
PO 395	Non-Profit Management	
Subtotal		9-12
Non-PO Cognate Courses		
EC 200	Principles of Microeconomics ²	3
EC 201	Principles of Macroeconomics ²	3
PY 100	Basic Concepts in Psychology ²	3
CN 101	Introduction to Communication Studies ²	3
SO 101	Social Problems ²	3
CM 101	Computer Concepts and Applications	3
AC 224	Financial Accounting	3
CN 308	Organizational Communication	3
or CN 350	Persuasion	
Subtotal		24
Total Hours		60-66

¹ Taken sometime within the first 12 credit hours of the major.

² These courses also count towards fulfilling the General Education and elective requirements of the University

Government and Political Science Secondary Education, BEd

The B.Ed. in Government and Political Science provides students with a program to complete degree requirements within 120 credit hours while continuing to earn the same core curriculum as all other Education majors, acquire content knowledge emphasizing government and political science, and satisfy Kansas State Department of Education (KSDE) 6-12 licensure standards.

University Requirements

Code	Title	Hours
WU 101	The Washburn Experience	3
EN 101	First Year Writing	3
MA 112	Contemporary College Mathematics (or higher)	3
EN 300	Advanced College Writing	3

Subtotal	12
Total Hours	12

(Note: The B.Ed. does not include a Foreign Language requirement.)

General Education Requirements

Code	Title	Hours
Humanities (GEHU):¹		
		9
Social Sciences (GESS):²		
EC 200	Principles of Microeconomics	
AN 112	Cultural Anthropology	
GG 102	World Regional Geography	
Natural Sciences (GENS):		9
Total Hours		27

¹ 3 hours must be in AR, MU, or TH

² Cannot be in major discipline (PO)

Content Area Courses

Code	Title	Hours
PO 106	The Government of the United States	3
PO 107	Kansas and the U.S., State and Local Government	3
PO 225	Introduction to International Politics	3
PO 325	Advanced International Relations	3
PO 371	Topics: American Politics and Government	3
PO 390	Applied Political Research	3
Upper Division Political Science course		3
HI 100	Survey of Early World History	3
HI 101	Changing World History: Traditions and Transitions	3
or HI 102	Modern World History	
HI 111	History of the United States through the Civil War	3
HI 112	History of the United States since the Civil War	3
HI 322	Kansas History	3
Upper Division History ¹		6
Total Hours		42

¹ One course must be non-Western History

Education Core Courses

Code	Title	Hours
ED 155	Teaching, Learning, Leadership	3
ED 285	Educational Psychology	3
ED 165	Ed. 1, Examining Teaching as a Profession: Diversity 1, Literacy 1, Technology 1	3
ED 275	Ed. 2 Exploring Teaching as a Profession (Classroom Management 1, Diversity 2, Technology 2) Ed. 2	3
ED 295	Ed. 3 Experiencing Teaching as a Profession (Classroom Management 2, Diversity 3, Literacy 2)	3

ED 395	Ed. 4 Extending Teaching as a Profession (Classroom Management 3, Literacy 3, Technology 3)	3
ED 354	Curriculum and Assessment	3
ED 302	Teaching Exceptional Learners	3
ED 366	Methods of Teaching Social Studies in Secondary School	3
ED 410	Secondary Student Teaching	12
Total Hours		39

Political Science, Minor

Minor Requirements

A minor consists of no less than 15 hours. Students must take:

Code	Title	Hours
Required Courses¹		
PO 106	The Government of the United States	3
PO 107	Kansas and the U.S., State and Local Government	3
Additional Political Science courses ²		9
Total Hours		15

¹ Students must have a grade of C or better in each course applied to the minor.

² at least 6 hours must be at the 300 level or higher

A student cannot major in either political science or public administration and receive a minor in the other area.

Public Administration, Minor

Minor Requirements

The minor in Public Administration consists of 18 credits distributed as follows:

Code	Title	Hours
Lower Division Courses		
PO 106	The Government of the United States	3
PO 107	Kansas and the U.S., State and Local Government	3
PO 245	Introduction to Public Administration	3
<i>Subtotal</i>		9
Upper Division Courses		
Select nine credits from the following:		9
PO 306	Urban-Metropolitan Government	
PO 343	Administrative Law	
PO 391	Public Personnel Administration	
PO 393	Public Budgeting	
PO 394	Public Management Techniques	
PO 395	Non-Profit Management	
PO 390	Applied Political Research	
<i>Subtotal</i>		9
Total Hours		18

Non-Profit Management, Certificate

The **Certificate of Non-Profit Management** is offered jointly with the Department of Family and Human Services. The Certificate of Non-Profit Management is valuable for individuals who seek manager positions or advancement into the field of non-profit agencies (United Way, YMCA, etc). The Certificate is offered in three ways:

- online,
- to any on-campus student with any Major, or
- with fewer required hours as a Major in Public Administration who Minors in Human Services, or a Human Services Major who Minors in Public Administration.

Option A

Available online to working adults in any outlying location by the Internet, or through campus courses (see list of courses in the Option B paragraph immediately below).

or

Option B

Add to any Major or graduate program, with the following courses:

Code	Title	Hours
Requirements		
HS 100	Family and Human Services	3
HS 446	Legal, Ethical, & Professional Issues	3
HS 300	Prevention and Social Change	3
PO 245	Introduction to Public Administration	3
PO 393	Public Budgeting	3
or PO 346	Problems in Public Administration	
PO 395	Non-Profit Management	3
PO 401	Program Evaluation Methods	3
or HS 495	Research and Evaluation	
PO 307/ HS 481/480/381	Internship - State or Local Government	3-6
PO/HS upper division (300- or 400-level) elective		3
Total Hours		27-30

Option C

6 courses (18 hours.) For any Majors in Public Administration who Minor in Human Services, or any Majors in Human Services who Minor in Public Administration, as follows:

Any Human Services Major with this Minor in Public Administration:

Code	Title	Hours
Requirements		
PO 245	Introduction to Public Administration	3
PO 346	Problems in Public Administration	3
PO 391	Public Personnel Administration	3
PO 393	Public Budgeting	3
PO 394	Public Management Techniques	3
PO 395	Non-Profit Management	3
Total Hours		18

Any Public Administration Major with this Minor in Human Services:

Code	Title	Hours
Requirements		
HS 100	Family and Human Services	3
HS 300	Prevention and Social Change	3
HS 323	Service Coordination	3
HS 446	Legal, Ethical, & Professional Issues	3
Two additional three credit hour upper division HS electives		6
Total Hours		18

Psychology

Department of Psychology

Website: www.washburn.edu/psychology (<http://www.washburn.edu/psychology/>)

Faculty

Professor Michael Russell, PhD
 Professor Cynthia Turk, PhD, Chair
 Associate Professor Linzi Gibson, PhD
 Associate Professor Jericho Hockett, PhD
 Associate Professor Michael McGuire, PhD
 Associate Professor Dave Provorse, PhD
 Associate Professor and Dean of College of Arts and Sciences Laura Stephenson, PhD

Mission

We promote the value of psychological science through a personalized, quality education that helps students to create a more fulfilling life, prepares them for future careers, and builds stronger communities.

Student Learning Outcomes

Psychology students at Washburn University, upon graduation, are expected to be able to:

- Identify and distinguish between the major subfields of psychology, comparing and contrasting the different content and emphasis of each.
- Use critical and creative thinking, skeptical inquiry and, when possible, the scientific approach to solve problems related to behavior and mental processes.
- Apply the peer-reviewed psychology literature to a specific issue or situation.
- Apply basic research methods in psychology, including research design, data analysis and interpretation.
- Recognize the necessity for ethical behavior in all aspects of the science and practice of psychology.

Departmental Honors

Psychology majors with a GPA of 3.5 or higher in all Psychology classes are eligible for departmental honors by demonstrating superior research skills or scholarship. To graduate with departmental honors in psychology, students must complete one of the three options outlined in the Departmental Honors Worksheet.

- Option one requires the student to complete PY 390 Directed Research, produce an Honors Thesis based upon their study, and defend it before a faculty committee.
- Option two requires the student to complete two Washburn Transformational Experiences in Psychology.
- Option three requires the student to complete PY 336 Internship, publicly present their internship experience and related scholarly research, and provide significant service to the Psychology Department.

Students are encouraged to begin these projects no later than the first semester of their senior year. More information about honors is available from a departmental advisor.

Psi Chi: The national honorary psychology society, Psi Chi, is represented at Washburn University by a chapter chartered in 1968. Membership is conferred each year upon advanced psychology students whose grades in psychology meet the prescribed national and local requirements.

Departmental Distinction

Students may graduate with Departmental Distinction by either scoring in the 75th percentile or higher on the overall ACAT, or scoring at least 600 or above on any three sections of the exam. More information about distinction is available from a departmental advisor.

Independent Work in Psychology

The department encourages all interested and qualified students to pursue a program of independent work in psychology by participating in one or more of the following three courses:

Code	Title	Hours
PY 336	Internship ¹	1-3
PY 389	Independent Study ¹	1-3
PY 390	Directed Research ¹	1-3

¹ It is generally recommended that a student should have completed at least 15 hours in Psychology, including PY 251 Research Methods in Psychology, prior to enrolling in any of the above courses.

Interested sophomores, juniors, and seniors are required to arrange independent work with their departmental advisor during the semester prior to enrolling in these courses.

Sport Psychology

Students interested in Sport Psychology should meet with either the Psychology Department Sport Psychology advisor (Dr. Provorse) or an advisor in the Kinesiology Department to obtain a list of courses which prepare students to meet application eligibility requirements for graduate programs which offer training leading to careers in Sport Psychology.

Programs

- Psychology, BA (p. 211)
- Psychology, Minor (p. 211)

Course Offerings

PY 100 Basic Concepts in Psychology (3)

An introduction to fundamental areas of Psychology including an overview of the concepts and methods of such areas as perception, learning, motivation, memory, development, personality, abnormal and social.

(General Ed Social Science. Critical and Creative Thinking.)

PY 151 Psychological Statistics (3)

The course will introduce students to descriptive and inferential statistical techniques used in contemporary psychology. The course will not only help students understand the mathematical and statistical concepts presented but also to assist in the application of the procedures. Prerequisite: PY 100 with a grade of C or better, or concurrent enrollment, and MA 104.

PY 209 Psychological Development through the Life-Span (3)

Psychological research and theories which describe and explain life-cycle stability and change in perception, cognition, language, psychomotor behavior, personality, interpersonal relationships, etc. Prerequisite: PY 100.

PY 210 Psychology of Infancy and Childhood (3)

Overview of theory and research on the psychological development of infants and children. Included are the development of sex roles, aggression, friendship, attachment to parents, perception, cognition, language, and moral reasoning and behavior. Prerequisite: PY 100.

(General Ed Social Science. Global Citizenship Ethics Div.)

PY 211 Adolescent Psychology (3)

Theory and research on adolescent personality, social and cognitive development, including problems of adjustment during the teenage years. Prerequisite: PY 100.

(General Ed Social Science. Global Citizenship Ethics Div.)

PY 212 Psychology of Adulthood and Aging (3)

Psychological theory and research on the changes and continuities of the adult years: personality, intelligence, memory, sex roles, interpersonal relationships, death and dying, and the psychological consequences of physical and health changes. Prerequisite: PY 100.

(General Ed Social Science. Information Literacy and Tech.)

PY 215 Consumer Psychology (3)

Survey of the psychological principles, theories, and methodology in learning, perception, motivation, attitude formation, personality, etc. as they affect consumer behavior. Prerequisite: PY 100.

PY 231 Abnormal Psychology (3)

A survey of the origins, processes, and diagnostic characteristics of representative syndromes of maladaptive behavior. Prerequisite: PY 100.

(General Ed Social Science. Global Citizenship Ethics Div.)

PY 234 Applied Behavior Analysis (3)

Elementary principles of learning & their application for managing the behavior of normal & abnormal populations in a variety of settings including schools, mental institutions, hospitals & businesses.

Prerequisite: PY 100.

PY 251 Research Methods in Psychology (3)

This course is an introduction to research methods in psychology. The goals of the course are for the student to learn how research is planned, carried out, communicated, and critiqued. Although only a few of students may pursue a career as a research psychologist, everyone is a consumer of research from psychology and other scientific disciplines. As such, a major goal of this course is to develop the capacity for critically evaluating "scientific evidence" that is communicated in journals, magazines, newspapers, and news programs. Prerequisite: PY 100.

PY 295 Special Topics (1-3)

Selected topics in psychology, announced in advance. Prerequisite: Specified for each topic.

PY 299 Psychological Forum (1)

Survey of applied issues in the profession of Psychology including an overview of employment and graduate school opportunities as well as vocational techniques for achieving those goals. Pass/Fail Only. Prerequisites: PY 100 and Sophomore Psychology Major.

PY 301 Principles of Learning (3)

Examines factors involved in acquiring and changing behaviors. Theories, historical and current models, and empirical findings in the field of learning and memory are explored. Prerequisite: PY 100.

PY 305 Sensation & Perception (3)

Focus on the anatomy and functions of sensory systems (vision, audition, olfaction, gustation, haptics). Emphasis on differences in theoretical backgrounds. Prerequisite: PY 100.

PY 306 Cognition (3)

A study of the intellectual structures and processes involved in the acquisition, storage, transformation, and use of knowledge. Prerequisite: PY 100.

(General Ed Social Science. Critical and Creative Thinking.)

PY 307 Physiological Psychology (3)

Examines the physiological basis of psychological phenomena (e.g., behavior). Concentrates on the function of biological systems on both general and specific behaviors. Prerequisite: PY 100.

PY 309 Theories of Personality (3)

Psychological theories of personality, including psychoanalytic, learning, and humanistic approaches. Prerequisite: PY 100.

PY 310 Social Psychology (3)

Theory and research on cognitive and behavioral responses to social stimuli. Prerequisite: PY 100.

PY 312 Psychology of Creativity (3)

Exploration of the many facets of creativity, including the nature, measurement, prediction, and cultivation of creativity, and its relationship to other cognitive abilities. Prerequisite: PY 100.

PY 314 Personality and Social Behavior (3)

Description of the characteristics that distinguish individuals and a review of the processes by which these characteristics are thought to be established and changed. Prerequisite: PY 100.

PY 317 Music and the Brain (3)

Study of the biological processes of active and passive music involvement and the resulting effect on individuals' learning, physical health, and mental well-being. Includes an experimental component. Prerequisite: EN 101 and BI 100 or higher; or PY 100; or consent of instructor.

(General Ed Social Science. Critical and Creative Thinking.)

PY 320 Psychological Testing and Measurement (3)

Theory and methods in psychological measurement, and their application to the construction, selection, and interpretation of psychological tests. Includes a survey of representative personality and ability tests. Prerequisite: PY 100.

PY 325 Community Psychology (3)

The study of community and organizational approaches to intervention and prevention strategies for mental health care, general health care, and various social problems. Prerequisite: PY 100.

PY 326 Health Psychology (3)

Introduction to the contributions of psychology to the prevention and treatment of illness, promotion and maintenance of health, and the improvement of the healthcare system. Topics include the role of stress and physiological factors in illness, chronic pain disorders and pain management, lifestyle and psychosocial influences on health, complementary and alternative methods for health promotion, and interpersonal factors involved in illness and health. Prerequisites: PY 100.

PY 327 Correctional Psychology (3)

An introduction to the field of Correctional Psychology. Applies psychological theories, principles and research to correctional issues. Topics include inmate behavior, women in prison, and psychological disorders found among offenders and prevention of fatigue, stress, and burnout in staff members. Prerequisite: PY 100 or consent.

PY 333 Counseling Psychology (3)

Major theories and techniques of psychological counseling. Prerequisite: PY 100.

PY 336 Internship (1-3)

Supervised experience in the application of psychological concepts and methods or volunteer work. Work in non-classroom situations required. Arrangements for enrollment must be completed prior to registration. (May be used to meet Senior Capstone Experience requirement). Pass/Fail Only. Prerequisites: One related advanced course and consent of instructor.

PY 338 Childhood Psychopathology (3)

An overview of psychological and behavioral disorders of children and adolescents, including their characteristics, origins, and treatment. Prerequisite: PY 231.

PY 339 Psychology of Sex and Gender (3)

This course will examine and analyze ways biology, culture, and society shape females' and males' identities, life experiences and other aspects of psychology. To study the psychology of sex and gender, we will examine historical views, physiology, socialization, friendships, sexuality, romantic relationships, childbearing and rearing, work, and mental and physical health. Prerequisite: PY 100.

PY 350 Introduction to Clinical Psychology (3)

Clinical Psychology as a science and a profession. The history, scope, ethics, theories, and methods of clinical psychology. Prerequisite: PY 100.

PY 353 Psychology of Everyday Life (3)

Applications of psychological theory and research in common life arenas, including family, work, and interpersonal relationships. Prerequisite: PY 100.

PY 356 Psychology of Marital and Family Processes (3)

An overview of psychological theories and research pertaining to family processes and the influence of the family on the psychological development of the individual. Topics to be covered include various psychological theories pertaining to family functioning, family dysfunction and divorce, and relationships between family functioning and psychopathology. Prerequisite: PY 100.

PY 385 From Classroom to Career (3)

Students work with the instructor and career services to hone professional development skills to transfer from the classroom into their careers and review academic literature relating to some aspect of professional development. This course helps to address APA's Professional Development guidelines for undergraduate psychology majors. Pre-requisite: PY 100.

PY 386 Advanced Research Design/Scientific Writing (3)

This course is primarily designed for students considering directed research and graduate school. This course will provide students with hands-on experience with regard to experimental research methods. Students will gain the skills necessary to conduct a literature review that will then be used to design, conduct, and analyze a novel empirical investigation. This course will enhance student's writing skills, with an emphasis on scientific writing using APA format. Prerequisites: PY 151 and PY 251 with grades of "C" or better; 3.0 cumulative GPA.

PY 387 History and Systems of Psychology (3)

An examination of philosophical and empirical roots that led to the development of the discipline of psychology and the historical progression of ideas central to modern psychology. (May be used to meet Senior Capstone Experience requirement). Prerequisite: Psychology Senior or consent.

PY 388 Directed Collaborative Research (3)

Supervised small group research project(s) designed to provide the opportunity to work collaboratively with peers. (May be used to meet Senior Capstone Experience requirement). Prerequisites: PY 386 and consent of instructor.

PY 389 Independent Study (1-3)

Individual problems planned and executed by the student under supervision. (May be used to meet Senior Capstone Experience requirement.) May be repeated up to a total of 6 hours. Prerequisite: Consent of instructor.

PY 390 Directed Research (1-3)

Supervised independent research involving gathering, analysis, and reporting of empirical data. This course serves as a culminating experience for Bachelor's degree students and may be used to meet the Senior Capstone Experience requirement. May be repeated up to a total of 6 hours. Prerequisites: PY 386 and consent of instructor.

PY 395 Special Topics (1-3)

Selected topics in psychology, announced in advance. Can be repeated for credit under different topic areas. Prerequisite: Specified for each topic.

Psychology, BA

Degree Requirements

Students must complete a minimum of 34 graded credit hours in psychology, earning a grade of C or better in each course. These hours must include:

Code	Title	Hours
PY 100	Basic Concepts in Psychology	3
PY 151	Psychological Statistics	3
PY 231	Abnormal Psychology	3
PY 251	Research Methods in Psychology	3
PY 299	Psychological Forum	1
Select at least one course from the following:		3

PY 209	Psychological Development through the Life-Span	
PY 210	Psychology of Infancy and Childhood	
PY 211	Adolescent Psychology	
PY 212	Psychology of Adulthood and Aging	
PY 301	Principles of Learning	3
or PY 306	Cognition	
PY 307	Physiological Psychology	3
or PY 305	Sensation & Perception	
PY 309	Theories of Personality	3
or PY 310	Social Psychology	
Upper-division psychology courses ¹		6
Select 3 hours from the following: ²		3
PY 336	Internship	
PY 387	History and Systems of Psychology	
PY 389	Independent Study	
PY 390	Directed Research	

Total Hours **34**

¹ Capstone courses may **not** be used to fulfill this requirement

² To serve as the basis of a Senior Capstone Experience

Students should work closely with an advisor to plan the required Capstone Experience. The Capstone Experience should be taken during the junior or senior year.

Some courses which meet psychology major requirements are not offered each semester, so students should always consult a Psychology faculty advisor when planning their course schedule.

At least 9 hours (including 6 upper division hours) must be taken at Washburn.

Psychology, Minor

Minor Requirements

A minor in psychology consists of no less than 15 hours, including at least 9 hours of upper division courses. At least 4 hours must be taken at Washburn. Students should consult an advisor in the Psychology Department in order to select the most appropriate psychology courses to complement their major. Students must have a grade of C or better in each course applied to the minor.

Religious Studies

Department of Philosophy and Religious Studies

Website: www.washburn.edu/philosophy (<http://www.washburn.edu/philosophy/>)

Faculty

Assistant Professor Chris Jones, PhD

Mission

Consistent with the missions of the University and the College of Arts and Sciences, the Department of Philosophy and Religious Studies is

dedicated to providing high quality undergraduate courses in philosophy and religious studies, to providing the educational foundations for life-long critical thinking, to engaging in research and scholarly activities in these and related areas and to serving the University and its various communities. The Department emphasizes excellence in teaching undergraduate students.

Description of Discipline

Religious Studies is not just the study of religion. It begins with serious reflection on what we mean by "religion" and whether we all mean the same thing when we say it. Is religion a ubiquitous human phenomenon, the very thing that makes us human (as some have claimed)? Is religion about humanity's search for cosmic meaning, or is it a technique for social cohesion (and control), or is it a projection of our desires and fears, or is it something else entirely? These perspectives (and others) will be entertained and evaluated in religious studies courses at Washburn University.

Student Learning Outcomes

Religious Studies students at Washburn University, upon graduation, are expected to be able to:

- Demonstrate an understanding of the subject matter of, and various methods used in, the academic study of religion.
- Describe the nature and diversity of world religions.
- Demonstrate competence in a concentrated area of religious studies.
- Access various theories, concepts, and materials (e.g., written texts, oral reports, archaeological data) central to the academic study of religion.
- Conduct and present research in written form.
- Orally explain and defend positions taken in written research.

Programs

- Religious Studies, BA (p. 213)
- Religious Studies, Minor (p. 213)

Course Offerings

RG 101 Introduction to Religion (3)

This course serves as an introduction to the academic discipline of religious studies. We will explore the human side of religion through the careful study of contextualized religious communities. Along the way, we'll develop a vocabulary for describing and comparing religious communities, and we'll learn some scholarly approaches to explaining why people are religious. Prerequisite: None.

(General Ed Humanities. Global Citizenship Ethics Div.)

RG 102 World Religions (3)

Study of the teachings and practices associated with some so-called "world religions" (including Islam, Christianity, Buddhism, Hinduism, and Yoruba) through ethnographies, films, TV clips, novels, and site visits, with special emphasis on local contexts and on interrogating the very concept of "world" religions. Prerequisite: None.

(General Ed Humanities. Global Citizenship Ethics Div.)

RG 103 Introduction to the Bible (3)

An introduction to the academic study of the Bible, including 1) biblical and non-biblical ancient texts in their historical contexts and 2) the historical processes that led to the creation of different canons of the Bible among Jews and Christians. Prerequisite: None.

(General Ed Humanities. Critical and Creative Thinking.)

RG 105 Introduction to Jewish Scriptures (3)

We will study a selection of ancient Jewish scriptures, including some that were eventually included in the Hebrew Bible (the Christian Old Testament) and some that were not, focusing on the specific political reasons that people had for writing these books and spreading them within their communities. Prerequisite: None.

(General Ed Humanities. Global Citizenship Ethics Div.)

RG 106 Introduction to Christian Scriptures (3)

Study of a selection of ancient scriptures read and/or written by ancient Christian communities, focusing on how it was determined which books would be included in the canonical New Testament. Prerequisite: None.

(General Ed Humanities. Global Citizenship Ethics Div.)

RG 110 Special Topics/Religion (1-3)

Topics will vary from semester to semester and will be announced in advance. May be repeated for credit when topics vary.

RG 207 Existence of God (3)

An elementary course in Philosophy and Religion focusing upon the specific rational arguments which have been advanced for and against the existence of a supreme being. Prerequisite: EN 101 or EN 102.

(General Ed Humanities. Critical and Creative Thinking.)

RG 300 Special Topics/Religion (2-3)

Topics will vary from semester to semester and will be announced in advance. May be repeated for credit when topics vary. Prerequisite: three hours of Religion or PH 302.

RG 301 Prophets and Prophetic Books in Ancient Judaism (3)

In this course, ancient Jewish prophetic literature is examined, including biblical books like Isaiah and extra-canonical traditions like Enoch. Prophecy is studied against the backdrop of ancient Near Eastern divination, and focus is on the role of prophetic books (a uniquely Jewish phenomenon) in the shaping of early Judaism. Prerequisite: three hours of Religion.

RG 303 The Historical Jesus? (3)

Two thousand years ago, a Galilean peasant upended the world. Who was he? How would we know, when he himself wrote nothing and his followers told his story decades later from their own perspectives? In this course, we re-examine primary literary sources and archaeological data in an attempt to reconstruct the life of Jesus of Nazareth. In the process, we interrogate the ways that our quests for the historical Jesus are also quests to understand our own distinct historical moment(s). Prerequisite: three hours of Religion.

RG 305 The Apostle Paul as Jew and as Christian (3)

Arguably, no figure had more of an impact on the shape of Christianity than the Apostle Paul—not even Jesus of Nazareth himself. Yet Paul lived and died thinking of himself as a Jew. In this course, the historical Paul is reconstructed through his authentic writings, and then the ways that Christians have built on Pauline traditions in antiquity, during the Reformation, and into the 21st Century are examined. Prerequisite: three hours of Religion.

RG 331 Understanding Religion (3)

What do we mean when we call something "religion"? Who decides what is and is not "religion"? This course examines various approaches to the academic study of religion, focusing on current disciplinary debates over description versus explanation, insider/outsider dynamics, and the heuristic value of "religion" when applied to non-Western traditions. Prerequisite: Religious Studies Major, or consent of the instructor.

RG 386 Special Study (1-3)

Individual study of specialized subjects pertaining to religion. May be repeated for credit. Prerequisites: nine hours of Religion and permission in advance by the professor with whom the student desires to work.

RG 398 Senior Thesis Preparation (3)

Independent research in preparation for a senior thesis. Students will complete preliminary research in the area of their senior thesis and prepare a thesis proposal. In addition, students will complete the portfolio project which asks them to submit a folder containing religious studies papers from previous courses along with their reflection upon their development over time in writing such papers. The proposal completed in RG 398 may not be or have been submitted for credit in any other course. Prerequisite: Senior Religious Studies Major

RG 399 Senior Thesis (3)

Independent research, writing and defense of a substantial paper, under faculty supervision. Work completed in RG 398 and RG 399 may not be or have been submitted for course credit in any other course. Prerequisite: RG 398.

Religious Studies, BA

The major in Religious Studies is designed to take full advantage of Washburn University's unique resources as a public municipal institution in a state capital city. Courses will focus on religious traditions and communities from around the world as they are found in the modern United States of America. Introductory courses (RG 101 Introduction to Religion, RG 102 World Religions) include ethnographic components and local site visits. Core courses (culminating in RG 331 Understanding Religion) invite students to reflect on religious studies as an academic discipline and to position themselves within it. The major culminates in a senior thesis in which students use the theories and methods they've learned to analyze a particular religious community that they've studied in their elective coursework. Ultimately, religion majors develop a toolkit for understanding human beings in light of their ultimate concerns and the particular contexts in which they live.

Religious studies majors go on to find success in a number of pursuits after graduation. Some go on to graduate studies in religion, which can lead to a Ph.D. and a career in academia. Some go to seminary and seek ordination within their own religious communities. Most, however, go on to graduate study in other areas or find work in business, government, or the non-profit/NGO world. Because religion is pervasive in human experience, studying it provides a foundation for engaging people within any sphere of life.

Degree Requirements

Code	Title	Hours
Required Courses		
RG 101	Introduction to Religion	3
RG 102	World Religions	3
RG 331	Understanding Religion	3
RG 398	Senior Thesis Preparation	3
RG 399	Senior Thesis	3
Subtotal		15
Additional Courses		
Select additional courses ¹		12
Subtotal		12
Correlated Courses		

Choose one of the following:		3
PH 100	Introduction to Philosophy	
PH 201	Corrupting the Youth: Ancient Greek Philosophy	
PH 203	Introduction to Buddhist Philosophy	
PH 207	Existence of God	
PH 202	I think therefore I Am? Modern Philosophy 1600-1800	3
Subtotal		6
Total Hours		33

¹ At least nine must be RG and at least nine must be upper division courses. *External courses require advisor's prior approval.*

Religious Studies, Minor

Minor Requirements

Minor programs in Religious Studies are individually designed by the student in consultation with a departmental advisor and subject to departmental approval. A minor will consist of at least 15 hours, 12 of which must be in Religious Studies courses and six of which must be upper division.

Sociology

Department of Sociology and Anthropology

Website: www.washburn.edu/anso (<http://www.washburn.edu/anso/>)

Faculty

Professor Mary Sundal, PhD, Chair
 Associate Professor Alexandra Klales, PhD
 Associate Professor Sangyoub Park, PhD
 Assistant Professor Lindsey Ibañez, PhD
 Assistant Professor Jason Miller, PhD
 Assistant Professor Laura Murphy, PhD
 Lecturer Ashley Maxwell, PhD
 Lecturer Alexander Myers, MA

Mission

Consistent with the mission of the University and the College of Arts and Sciences, the Department of Sociology and Anthropology offers students the opportunity to deepen and broaden their knowledge of humankind and themselves. We provide a broad understanding of cultural, social, and physical diversity in the world - past, present, and future. Students enrolled in sociology and anthropology classes will learn to critically examine social life, its organization, and its meaning. Through engaged pedagogy, we contribute to the intellectual development of our students who acquire the skills needed to examine cultures and societies through empirical, analytical, comparative, and historical methods. We believe that a firm grounding in sociological and anthropological knowledge will enrich the lives of our students and prepare them to be active citizens of their local communities and our global society.

Description of Sociology

Sociology is the "study of social life, and the social causes and consequences of human behavior" (www.asanet.org ([http://](http://www.asanet.org)

www.asanet.org)). Sociologists study topics from welfare to health care reform, from organized religion to cults, from poverty to concentrations of wealth, from war to natural disasters, from aging to population change, from social media to music and film, from deviance to social order, from law to crime, from divisions of race/class/gender to shared cultural meanings. Students may go on to careers in areas such as social services (juvenile justice system, battered women shelters, disaster planning/relief), administrative support (information technology, human resources, employee training), social science researcher and/or analyst, law, education (graduate school, professor), marketing (copy writing, technology or software), and law enforcement.

Student Learning Outcomes

Sociology majors at Washburn University, upon graduation, should be able to:

- Critically analyze the role of culture and social structure in shaping the lives of members of society.
- Identify, describe, and apply core sociological theories/perspectives to social phenomena at the micro and/or macro levels.
- Explain the effects of race, class, gender, and other forms of diversity on life chances at the individual, institutional, and/or societal levels.
- Frame sociological questions of significance, outline processes by which they might be empirically answered, and evaluate the major ethical issues involved.
- Demonstrate analytical reasoning skills by interpreting numerical, textual, and ethnographic information.

Programs

- Sociology, BA (p. 215)
- Sociology, Minor (p. 216)

Course Offerings

SO 100 Introduction to Sociology (3)

This course introduces students to theories, concepts, and methods used by sociologists in the study of society. Through this course, students should come to realize how many aspects of their lives are influenced by the social world in which they live and, as a result, should obtain a better understanding of themselves as social individuals and their place in society. Students will also develop an awareness and appreciation of how other individuals, groups, and/or societies have arrived at quite different perspectives. Prerequisite: None.

(General Ed Social Science. Global Citizenship Ethics Div.)

SO 101 Social Problems (3)

This course introduces students to the complexity of major social problems that are currently facing the U.S. and the world. Special emphasis is given to problems emerging from various divisions and inequalities in society related to social power, social class, race/ethnicity, sex, etc. Students will learn tools needed to critically evaluate these issues using sociological perspectives. Prerequisite: None.

(General Ed Social Science. Critical and Creative Thinking.)

SO 200 Special Topics in Sociology (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: SO 100 or SO 101.

SO 207 Race and Ethnic Relations (3)

This course examines the historical social construction of race in the U.S. We will focus on how race and ethnicity shape social life. This course will explore the experiences of various ethnic and racial groups. Prerequisite: SO 100 or AN 112.

SO 300 Special Topics in Sociology (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: SO 100 or SO 101.

SO 301 Population and Society (3)

This course provides students with an overview of the field of population studies. In the course, students will explore topics including fertility, mortality, immigration, marriage, and the consequences of these demographic changes on both social and individual levels. Prerequisite: SO 100.

SO 302 Culture, Gender and Sexuality (3)

This course introduces students to anthropological perspectives on sex, gender, and sexuality. Special attention is given to the social, political, economic, and cultural processes that shape us to act and think as particular kinds of sexed, gendered, and sexualized persons, including the complexities and dilemmas posed by intersecting identities (e.g. race, ethnicity, class, religion). Prerequisite: AN 112, or AN 113, or consent of instructor.

SO 304 The Family (3)

This course provides an examination of contemporary U.S. and global family life, including courtship, marriage, divorce, child-rearing, and caring for aging parents. Prerequisite: SO 100.

SO 305 Criminology (3)

This course examines theories of causation of crime as well as conformity (non-criminal behavior), and their relationships to social structure and culture. In this course, we examine how laws are created, applied, and enforced in society. Prerequisite: Six hours of Sociology including SO 100 or SO 101.

SO 306 Law and Society (3)

In this course, the legal system is studied not in terms of the rules that make up the system, but in terms of the activities involved in creating, interpreting and enforcing these rules. The primary concern is with the ways in which the legal system affects society and in which society is an integral part of the larger social system and not an isolated set of rules, procedures, and activities. Prerequisite: SO 100 or SO 101.

SO 307 Penology (3)

This course provides a historical examination of the treatment of convicted adults and juveniles, as well as discussions of modern alternatives to prison, such as probation, parole, restorative justice, and suspended sentencing. The course includes field trips to local institutions. Prerequisite: SO 100 or SO 101.

SO 308 Sociology of Mental Health (3)

Survey and sociological analyses of major theoretical approaches toward mental health and illness exploring the social factors associated with mental illness; examination of the dynamics of societal reactions to mental illness. Prerequisite: SO 100.

SO 309 Sociology of Deviance (3)

This course includes presentation, evaluation, and integration of sociological perspectives of deviance. The course focuses on the social processes producing and maintaining deviance. Consideration is given to a variety of deviant expressions. Prerequisite: SO 100 or SO 101.

SO 310 Social Class in the U.S. (3)

This course explores the definition of social class and the impact of social class on everyday lives including opportunity, education, marriage, and parenting. Prerequisite: SO 100.

SO 311 Juvenile Delinquency (3)

This course examines the characteristics and extent of youthful deviancy. The focus is on possible causes, concepts of treatment, and societal reaction. Prerequisite: SO 100.

SO 313 Sociology of Disasters (3)

This course analyzes the phenomena we call "disaster" using a sociological perspective. Some of the topics covered will include: What is a disaster? Do disasters randomly affect populations, or are some groups more vulnerable than others? How can disasters act as an agent for or against social change? Prerequisite: SO 100.

SO 314 Organizations (3)

This course examines organizations from the sociological perspective with emphasis on formal organizations. Through this course, students will learn to apply concepts of organizational structure; organizational culture; processes of power, leadership, and decision-making; and understand outcomes of organizations on individuals, communities, and society, as well as the larger environments. Prerequisite: SO 100.

SO 315 Sociology of Sport (3)

In this course we examine sport as a microcosm of society, in that we critically examine the social, cultural, political, and economic realities of society. Further, the sociology of sport exists to promote, stimulate, and encourage the sociological study of play, games, and contemporary physical culture and examine what these activities tell us about society. Prerequisite: SO 100.

SO 316 Japan and East Asia (3)

The main objective of this course is to examine social, cultural, demographic, economic, and political trends in East Asia through the lens of sociologists and other social scientists. Emphasis will be on China, Japan, and Korea. Prerequisites: SO 100.

SO 318 Sociology of Religion (3)

This course provides a comparative study of the phenomenon of religion with special emphasis on the impact and future of religion in the modern world. Classical and contemporary theories serve as a basis for the approach to religious values, norms, institutional structures, and changing religious practices. Prerequisite: SO 100.

SO 319 Food and Culture (3)

Food is a part of everyday life, and we often taken the act of cooking and eating for granted. In this course, we will explore larger social phenomena through our consumption of food. Much of the focus of this course will involve reading scholarly analyses of different issues surrounding food. Prerequisites SO100 or consent of instructor.

SO 323 The City and Urban Life (3)

This course provides a comparative study of the origin and development of cities. The focus is on processes of urban development, rural-urban migration, inter-relationships between people, urban cultures, social institutions, use of space and competing theoretical perspectives. Prerequisite: SO 100 or SO 101.

SO 326 Aging and Society (3)

This course explores the aging process from the vantage point of sociological theories and related empirical studies. Emphasis is on the social, political, economic, medical, and demographic contexts of aging. Special attention is given to "new ageism." The course also focuses on the effect on U.S. society of an aging population. Prerequisite: SO 100.

SO 338 Strategies for Social Change (3)

This course explores the major economic, political, and social forces that influence structural and cultural change in the U.S. and the world using a sociological perspective. The course also introduces students to different types of social movements and provides a framework for activism, as individuals and as members of groups. Prerequisite: SO 100 or SO 101.

SO 360 Sociological Theory (3)

This course provides a historical examination of the field of sociology and the development of sociological theory from its classical roots to contemporary debates. "Schools of thought" and the work of particular theorists are used to explore central concepts. Prerequisite: Declared major, junior / senior standing.

SO 362 Methods of Social Research (3)

Specific research techniques employed by sociologists, anthropologists, and other social scientists are considered, including polls and surveys, the interview and participant observation. Each student will complete an outside project. One of two capstone courses required of Sociology majors. Prerequisites: Declared major and 15 hours of Sociology, or consent.

SO 363 Internship (1-3)

Field training to provide students with experience in an operational or research setting through assignment to local social agencies or museums approved and supervised by a faculty member. May be elected twice for a maximum of three hours. Prerequisites: Declared major, senior standing and consent.

SO 366 Directed Readings (1-3)

Under supervision of a faculty member, students will undertake an extensive readings course to further their understanding of a specific topic within Sociology. May be repeated for a maximum of six hours. Students are limited to six hours total from SO 366 and SO 367 combined. Prerequisite: Declared major, junior/senior standing, and consent.

SO 367 Directed Research (1-3)

Upon supervision of a faculty member, students may undertake an independent research project in a specific aspect of Sociology. May be repeated for a maximum of six hours. Students are limited to six hours total from SO 366 and SO 367 combined. Prerequisite: Declared major, junior/senior standing, and consent.

SO 377 Sociology of Education (3)

This course examines theories and methods focusing on the role of education in stabilizing and changing industrial society particularly the United States. We describe and analyze how schools and universities figure into recurring crises and struggles-especially those related to the job market and to people's concerns as to what constitutes a rewarding life. Prerequisite: SO 100, SO 101 or consent of instructor.

SO 400 Special Topics/Sociology (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: SO 100 or SO 101.

Sociology, BA

Degree Requirements

Code	Title	Hours
SO 100	Introduction to Sociology	3
SO 101	Social Problems	3
SO 360	Sociological Theory	3
SO 362	Methods of Social Research	3

AN 112	Cultural Anthropology	3
SO 207	Race and Ethnic Relations	3
or SO 310	Social Class in the U.S.	
SO 305	Criminology	3
or SO 309	Sociology of Deviance	
Select one of the following:		3
SO 304	The Family	
SO 306	Law and Society	
SO 314	Organizations	
SO 315	Sociology of Sport	
SO 318	Sociology of Religion	
SO 377	Sociology of Education	
Sociology or Anthropology Elective		3
Upper-division Sociology Elective		6
Total Hours		33

Department honors are awarded to majors who attain:

- a 3.5 GPA in all coursework in the major;
- a 3.5 GPA in all upper-division Sociology coursework, including the two capstone courses (SO 360, 362);
- a research project within one of the capstone courses, with a grade of "A;" and
- a 3.2 GPA in all university coursework.

Majors are strongly encouraged to take courses in statistics and computer science, and to complete a minor. Students must earn a grade of "C" or better in all courses applied to the major.

Sociology, Minor

Minor Requirements

To minor in Sociology, students must complete a minimum of 15 sociology credit hours:

Code	Title	Hours
SO 100	Introduction to Sociology	3
Upper-division Sociology hours (completed at Washburn University)		6
Sociology electives		6
Total Hours		15

Students must earn a grade of C or better in each course in the minor. Anthropology majors can minor in Sociology.

Theatre

Department of Theatre

Website: www.washburn.edu/theatre (<http://www.washburn.edu/theatre/>)

Faculty

Professor Sharon L. Sullivan, PhD, Chair
Assistant Professor Julie Noonan, PhD
Lecturer Theodore Shonka, MFA

Mission

Consistent with the mission of the University and the College of Arts and Sciences, the Department of Theatre is dedicated to providing students with a strong foundation in Theatre based on mastering basic concepts of dramatic literature, performance, history, design and criticism as well as the technical skills to produce theatre. Studying Theatre at Washburn is theoretical, practical and experiential. Public performances are offered by the department in the Andrew J. and Georgia Neese-Gray Theatre throughout the year, affording students experience in Theatre practice. As one of the University's "public faces," the University Theatre is a cultural resource provided to the citizens of Washburn and the Topeka community.

Programs

- Musical Theatre, BA (p. 219)
- Theatre Studies, Minor (p. 219)
- Theatre, BA (p. 218)

Course Offerings

TH 100 Theatre Practicum (0-1)

This course is designed for both theatre majors and other students interested in performing onstage or working backstage to provide practical experience as a member of a theatre production crew. Students will have the opportunity to perform onstage, or serve as crew members, designers or directors, who may work in several technical or production areas, including stage management, costumes, set design and construction, lighting, sound, properties, house management, and publicity.

TH 101 Drama Classics on Video (3)

Introduction to the theatre through play reading and viewing of selected video tapes of staged plays that cover the work of theatre artists, production styles range from the Greeks to the American Musical theatre. Students who enroll in or have completed TH 301 are ineligible to enroll in TH 101.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

TH 102 Introduction to Theatre (3)

Current views of theatre in society; theatre as art and ritual and its relationship to other fine arts, the nature of the theatrical metaphor and the aesthetic evaluation by the audience. Career opportunities associated with the art: professional, educational, community, and amateur.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

TH 103 Voice, Diction & Interpretation (3)

Training the speaking voice; study of vocal mechanism, breathing, projection, articulation, enunciation; practical application of speaking principles in oral interpretation reading; projects.

(General Ed Creative Performing, General Ed Humanities. Communication.)

TH 104 Theatre Movement Dance I (3)

Theatre Movement and Dance I is designed to introduce students to the fundamentals of dance. Dance I is a beginner class. Repeatable for credit. Prerequisite: None.

TH 199 Special Topics in Theatre (1-3)

Newly developed course material offered for variety and expansion of the course curriculum.

TH 202 Acting I (3)

Movement, voice and improvisation exercises and activities. Introduction to basic acting principles and practice, developing focus and imagination. (General Ed Creative Performing, General Ed Humanities. Communication.)

TH 204 Theatre Movement Dance II (3)

Theatre Movement and Dance I is designed to further the development and understanding of the performers' body and mind connection. Dance II is an intermediate class. Prerequisites: TH 104 or permission of the instructor

TH 206 Early Theatre History (Origins to 18th century) (3)

Play-reading in historical context. Study of elements of production, performance practice, and style which emerge representative of period. Periods: Greek, Roman, Medieval, Renaissance and Elizabethan. (General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

TH 207 Late Theatre History (18th century to contemporary) (3)

Play-reading in historical context. Study of elements of production, performance practice, and style which emerge representative of period. Periods: Restoration, French and Spanish Classicism, Neoclassicism, Romanticism, Realism. Students who enroll in or have completed EN 236 are ineligible to enroll in TH 207. (General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

TH 208 Principles of Playwriting (3)

Practical writing lab. Analysis of established texts leads students to creation and development of dramatic monologues, short and one-act plays. Class will culminate in public readings and/or staging of original work.

TH 209 Musical Theatre Performance I (3)

Performance class; students practice fundamental performance techniques for musical theatre repertoire; fundamental analysis of song forms and acting objectives for solo and scene work from selected styles. Singing, movement and public performance required. Prerequisite: None.

TH 211 Stagecraft (3)

Lecture and laboratory exploration of the concepts of stage drafting, construction and painting. Crew assignment will be required.

TH 212 Acting II-Text/Scene Analysis (3)

This acting course focuses on the process of creating a character for the stage. The course includes text analysis, scene study and scene and monologue work.

TH 218 Acting & Directing Workshop I (3)

Practical experiences in acting and directing through analysis, preparation and performance of scenes and monologues, and other performance exercises. Focus: Realism and Serious Contemporary Drama. Prerequisite: None.

TH 300 Theatre Practicum (0-1)

This course is designed for both theatre majors and other students interested in performing onstage or working backstage to provide practical experience as a member of a theatre production crew. Students will have the opportunity to perform onstage, or serve as crew members, designers or directors, who may work in several technical or production areas, including stage management, costumes, set design and construction, lighting, sound, properties, house management, and publicity.

TH 301 Drama Classics on Video (3)

An introductory Theatre course which involves viewing performances and play reading. Production styles range from the Greeks to the American Musical theatre. This course carries a mutual exclusion with the following course; you may not enroll in TH 301 if you have completed TH 101 with a passing grade.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

TH 303 Acting III (3)

Practical application of a method for text analysis and performance of Shakespeare and other presentational and verse forms through monologue and scene work. Prerequisite: TH 202 or consent.

TH 304 Theatre Movement Dance III (3)

Course is designed to continue to develop dance skills and techniques. Dance III includes jazz, modern, ballet and tap. Prerequisites: TH 204 or permission of the instructor.

TH 306 Contemporary Theatre (3)

Study of developments in playwriting, directing, and acting since WWII to the present with special emphasis on influences that have affected contemporary theatre and drama. Students who enroll in or have completed EN 336 are ineligible to enroll in TH 306/TH 606.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

TH 307 Non-Western Drama (3)

Detailed examination of the drama and theatre of selected Non-Western theatrical forms. Special emphasis is placed upon the relationship of cultural elements to the theatrical event.

TH 308 Principles of Playwriting (3)

Practical writing lab. Analysis of established texts leads students to creation and development of dramatic monologues, short and one-act plays. Class will culminate in public readings and/or staging of original work.

TH 309 Musical Theatre II (3)

Performance Class; students practice intermediate performance techniques for musical theatre repertoire; analysis of form, style, acting and movement for solo, scene and ensemble work from multiple styles. Singing, movement and public performance required. Prerequisites TH 210 or permission.

TH 311 Stagecraft (3)

Lecture and laboratory exploration of the concepts of stage drafting, construction and painting. Crew assignment will be required.

TH 313 Introduction to Children's Theatre (3)

Study of theatre production for children and youth. Investigation into the Children's Theatre repertory with special emphasis on playwriting. Development of a philosophy of theatre for children and youth.

TH 314 Children's Theatre Tour (3)

Touring area schools as a performer or stage manager throughout a given semester. Preparation, rehearsal and performance of play chosen for a specific age group. Prerequisite: TH 202, TH 313 or consent.

TH 315 Set and Prop Construction (3)

This course will focus on scenic and prop construction. Prerequisite: None.

TH 316 Costume Construction (3)

Costume Construction will teach students how to make costumes and costume accessories. Prerequisite: None.

TH 317 Lighting and Sound (3)

Light and Sound Production will teach students how to read a light plot, hang/focus lights, write cues and run a light board. Additionally, students will learn how to record and edit sound for theatre productions. Prerequisite: None.

TH 318 Acting & Directing Workshop II (3)

Practical experiences in acting and directing through analysis, preparation and performance of scenes and monologues, and other performance exercises. Focus: Realism, Experimental and Contemporary Comedy. Prerequisite: TH 218 - Acting and Directing Workshop I or consent of instructor

TH 319 Stage Makeup (3)

A practical guide to the theory and practice of theatrical makeup. Students will become familiar with the traditional and color theory approaches to makeup. Various conceptual and technical problems will be studied and solved.

TH 320 Acting II (3)

Advanced acting course continuing development of skills acquired from Acting I. Emphasis on styles and methods of analysis, interpretation, and portrayal of characters from selected plays, (contemporary to historical period): Prerequisite: TH 202 or instructor permission

TH 333 Digital Painting and Drawing (3)

AR327 is designed to provide the student with knowledge and skills necessary to create digital paintings and drawings using a range of visual art media related to digital processes, including AR/VR and 3D virtual painting. Emphasis of the course is focused on the student.

TH 359 Methods of Teaching Speech and Drama (3)

The study and application of teaching strategies for secondary education certification in speech. Prerequisites: Advisor approval and formal admission to teacher education.

TH 399 Special Topics/Theatre (0-3)

Newly developed course material offered for variety and expansion of the course curriculum.

TH 401 Analysis and Directing (3)

Students practice analytical skills and apply directing concepts and skills to stage a scene or short play. Prerequisites: TH 202 and TH 211 (Acting I and Stagecraft) or Instructor permission.

TH 406 History - American Musical (3)

Examines major cultural, artistic, historical, economic and social influences surrounding the creation, performance and reception of the American Musical. Prerequisites: TH 101 or TH 102 or TH 301, or permission of the instructor.

(General Ed Humanities. Critical and Creative Thinking.)**TH 407 Drama Theory & Criticism (3)**

Study of general principles of Western literary theory and the methods, aims, functions and characteristics of Drama as an art form, derived from and/or illustrated by examples in criticism and reviewing.

TH 408 Advanced Playwriting (3)

Practical writing lab for the development of full-length texts. Advanced critique and rewriting techniques will be employed to assist in script development. Prerequisite: TH 208 or TH 308 or consent.

TH 409 Musical Theatre Performance II (3)

Performance Class: Students practice advanced performance techniques for musical theatre repertoire; analysis of form, style, acting, movement for solo, scene and ensemble work from varied styles. Singing, movement and public performance required. Prerequisite: TH 310 or permission of the instructor.

TH 415 Experimental Theatre (3)

Practical introduction and practice in performance theory, collective creation and conceptualization. Creation of theatre piece from existent or original sources.

TH 416 Special Theatre Projects (1-3)

Majors must complete a faculty mentored project. Specifically developed projects or internships (1-3) in acting, directing, playwriting, design, public relations, and theatre management.

Theatre, BA

The Theatre Department is part of Washburn University's College of Arts and Sciences and offers a baccalaureate program in Theatre administered by a faculty committed to serving students, the University and the community in their scholarly and creative work. The BA in Theatre is comprehensive and practical. The concentration in Musical Theatre focuses on performance preparation including dance, singing and acting.

A graduate with a theatre liberal arts degree may apply skills in professional, semi-professional, community and recreational theatre and in many fields including public relations, advertising, media professions and entertainment.

Student Learning Outcomes - Theatre, BA

Students graduating with a B.A. in Theatre are expected to have acquired skills in Performance, Theatre Technology, and Theatre history, literature and criticism. Students will be able to:

- Demonstrate acquired skills in vocal expression, interpretation and performance.
- Demonstrate acquired conceptual skills in theatre aesthetics, design/technology, construction and execution.
- Demonstrate content knowledge and the ability to analyze and evaluate dramatic texts.
- Demonstrate the ability to respond critically to dramatic literature and theatre performances.

Theatre Major Requirements

The Bachelor of Arts Degree in Theatre consists of forty credit hours in Theatre, in addition to the general educational requirements of the College of Arts and Sciences, including 18-22 hours of electives outside the major. Seventeen hours are taken at the upper division level in the major. The following courses are required for a B.A. in Theatre:

Code	Title	Hours
Required Courses		
TH 100 & TH 300	Theatre Practicum and Theatre Practicum	4
TH 103	Voice, Diction & Interpretation	3
TH 202	Acting I	3
TH 206	Early Theatre History (Origins to 18th century)	3
TH 207	Late Theatre History (18th century to contemporary)	3
TH 311	Stagecraft	3
Subtotal		19
Additional Courses		
Select one additional tech class from the following:		3
TH 315	Set and Prop Construction	

TH 316	Costume Construction	
TH 317	Lighting and Sound	
TH 319	Stage Makeup	
TH 401	Analysis and Directing	3
Theatre electives ¹		15
Subtotal		21
Total Hours		40

¹ Chosen in consultation with your advisor

Musical Theatre Concentration Requirements

The Bachelor of Arts Theatre Degree with a Concentration in Musical Theatre consists of forty-three (43) credit hours in Theatre and fourteen (14) correlate credits in Music, in addition to the general education requirements of the College of Arts and Sciences. See the department chair for details.

Musical Theatre, BA

Description

The B.A. in Musical Theatre prepares students for life as working artists in the theatre and further study in performance. Students develop skills in music, dance and acting. Practical training and creative experiences are coupled with an interdisciplinary liberal arts curriculum and a foundation in theatre history and theory.

Students must audition for admittance to the Musical Theatre program. The audition will evaluate music, dance, and acting skills. Students are expected to participate in the Theatre Showcase each semester. Students are expected to audition and perform as cast in musical productions. Students must pass a jury each year to remain in the program.

Student Learning Outcomes - Theatre, BA with a Musical Theatre Concentration

Students graduating with a B.A. in Theatre with a Musical Theatre should be able to:

- Demonstrate performance skills that include:
 - Voice production and technique to create roles in full productions (speaking and singing)
 - Vocal interpretation and role preparation skills that enable understanding and performance of roles from a wide variety of styles
 - Musicianship, sight-singing competence and analytic skills
 - Stage movement and dance skills in at least 3 styles of musical theatre dance genres
 - Integration of voice, movement and acting skills
- Demonstrate proficiency in implementation of skills and knowledge of:
 - Basic production elements such as costume, sets and props, lighting, makeup and sound.
 - Script analysis, dramatic literature and history, and musical theatre repertory.
 - Audition and business techniques for musical theatre performers.

The B.A. in Musical Theatre consists of 43 hours in Theatre coursework and 14 hours in required correlate courses in Music, in addition to the general educational requirements of the College of Arts and Sciences.

Code	Title	Hours
Required Theatre courses		
One of the following:		3
TH 100	Theatre Practicum	
TH 300	Theatre Practicum	
TH 202	Acting I	3
TH 206	Early Theatre History (Origins to 18th century)	3
TH 207	Late Theatre History (18th century to contemporary)	3
TH 311	Stagecraft	3
One of the following:		3
TH 315	Set and Prop Construction	
TH 316	Costume Construction	
TH 317	Lighting and Sound	
TH 319	Stage Makeup	
TH 104	Theatre Movement Dance I	3
TH 204	Theatre Movement Dance II	3
TH 304	Theatre Movement Dance III	3
TH 209	Musical Theatre Performance I	3
TH 309	Musical Theatre II	3
TH 409	Musical Theatre Performance II	3
TH 406	History - American Musical	3
TH 401	Analysis and Directing	3
Correlate Music Courses		
MU 109	Piano for Beginners I	2
MU 215	Music Theory I ¹	3
MU 217	Aural Skills I	1
MU 275	Voice ²	1-3
Music Ensemble ³		4
Total Hours		53-55

¹ MU 215 and 217 usually taken concurrently

² Four semesters of Applied lessons

³ Four semesters of ensemble: Chosen in consultation/audition with Music Faculty: Washburn Choir, Washburn Singers, etc

Theatre Studies, Minor

Minor Requirements

A minor in Theatre Studies consists of a minimum of eighteen hours in Theatre approved in advance by a Theatre Faculty Advisor, with a minimum of six hours of upper division. Courses must represent all three areas: Performance, Design/Technology, and History/Literature.

Women's and Gender Studies

Dr. Sharon Sullivan, Director
sharon.sullivan@washburn.edu

The Washburn University Women's and Gender Studies Minor is an interdisciplinary program devoted to encouraging research on women

and gender, sponsoring events focused on issues relevant to women and gender, and promoting outreach across the campus and to the larger community. Women's and Gender Studies explores the connections between race and ethnicity, class, sexual identity and gender as they impact women's and men's lives in a variety of cultural contexts. Courses critically examine the social, historical, psychological, literary, artistic, philosophic, and biological roles of women and gender while seeking to provide a fuller understanding of the multidimensional nature of personhood. Emphasizing the connections between theory and practice, Women's and Gender Studies encourages applied learning through internships, community involvement projects, research, and service learning courses. This minor is coordinated by the Dean of the College of Arts and Sciences. For more information, contact the minor director, Dr. Sharon Sullivan, in the Theatre Department and see the "Interdisciplinary Academic Programs (p. 46)" section in the catalog.

School of Applied Studies

Website: www.washburn.edu/sas (<https://www.washburn.edu/sas/>)

Faculty

Zach Frank, DPT, Interim Dean and Associate Professor
 Nicole Vavra, SAS Academic Advisor
 Amber Ybarra, Transfer & Academic Coordinator
 Beth Kuhn, Administrative Specialist
 Alicia Moulden, Senior Administrative Assistant

Brief History

In the fall of 1981, a new academic division was established within the Office of Continuing and Special Instructional Programs to offer degrees in those areas not directly related to existing University departments. In the spring of 1983, the General Faculty of the University, the Board of Regents, and the Kansas Legislature recognized the importance of these growing applied programs to the mission of an urban university like Washburn and established the School of Applied and Continuing Education.

In the spring of 1992, this academic unit was renamed the School of Applied Studies. Continuing Education became a separate unit. That same year the departments of Criminal Justice and Social Work were transferred to the School, joining the existing departments of Allied Health, Human Services, and Office, Legal and Technology. Today, the School of Applied Studies consists of Allied Health, Criminal Justice & Legal Studies, Human Services and Social Work. SAS offers over 20 professional programs and seven associate degree programs with Washburn Institute of Technology.

Vision

The School of Applied Studies will be an outstanding educational setting and resource center for the creation of a learning community that embraces exemplary leadership, scholarship and integrity.

Values Guiding Our Vision

Commitment to Academic Excellence: To have highly qualified and talented faculty and staff as well as discerning and productive graduates.

Commitment to Scholarship: To engage in scientific research, innovative studies, and scholarly endeavors that have beneficial and practical consequences.

Commitment to Technological Empowerment: To foster literacy in relevant technology in order to best utilize its importance and potential.

Commitment to Public Service: To strengthen our creative partnerships and outreach.

Commitment to Diversity: To strive for a vibrant and inclusive learning environment that respects and embraces the many different dimensions of diversity and international perspectives.

Commitment to Compassionate Professionalism: To prepare dedicated and caring professionals, who adhere to the highest ethical standards and performance competencies.

Mission

The School of Applied Studies has the primary function of offering quality professional programs in areas which respond to community and state needs.

The mission for the School of Applied Studies will be accomplished when all graduates are:

- Lifelong learners who are committed to continuing education and scholarship.
- Competent individuals who possess the necessary skills in their professional field of employment.
- Complex thinkers who have the ability to problem solve, analyze, synthesize, and evaluate.
- Informed individuals who are sensitive to cultural diversity.
- Effective communicators who have the necessary verbal and written skills to work in our global society.
- Responsible individuals who demonstrate commitment to professional values and ethics.
- Technologically literate Individuals with application skills relevant to their profession.

General Degree Requirements

The School of Applied Studies offers the following degrees:

- Associate of Arts (AA),
- Associate of Science (AS),
- Bachelor of Applied Science (BAS),
- Bachelor of Health Science (BHS),
- Bachelor of Criminal Justice (BCJ),
- Bachelor of Legal Studies (BLS),
- Bachelor of Social Work (BSW),
- Master of Arts in Human Services (MA),
- Master of Criminal Justice (MCJ),
- Master of Health Science (MHS), and
- Master of Social Work (MSW).

The School also offers Certificates of Completion in selected programs.

In addition to University degree requirements common to all associate degree programs (see Degrees, Common Requirements), the student must complete all major and correlate courses specific to each program (see specific program requirements).

For baccalaureate degrees, students must meet the university degree requirements common to all baccalaureate programs (see Degrees, Common Requirements) and complete all major and correlate courses specific to each program (see specific program requirements).

Minor Requirements

A grade of C or better must be earned in each course used to satisfy the requirements of the minor and a minimum of six credit hours used to meet minor requirements must be earned in the SAS Department that is providing the minor.

Certificate Programs

A student seeking an academic certificate in the School of Applied Studies must apply and be admitted to the program within the department in which they are seeking the certificate. Applications to receive an academic certificate should be made during the semester in which the student expects to finish certificate requirements. At least half the required hours for a certificate must be earned at Washburn. Students with more than half the required hours earned at other institutions may take more advanced classes at Washburn in specific content areas to

1. advance their knowledge and skills and
2. avoid duplicating coursework.

Students seeking a Certificate will take all courses on a letter grade basis.

Accreditation and Approval

Programs within the School of Applied Studies are approved or accredited by the following agencies:

- Academy of Criminal Justice Sciences: Master of Criminal Justice (ACJS)
- Accreditation Council for Occupational Therapy Education (ACOTE): Occupational Therapy Assistant
- Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association: Physical Therapist Assistant (CAPTE)
- Commission on Accreditation for Respiratory Care (CoARC): Respiratory Therapy
- Commission on Accreditation for Health Informatics and Information Management Education: Health Information Technology (CAHIIM): Health Information Technology
- Commission on Accreditation of Allied Health Educational Programs, Joint Review Committee on Education in Diagnostic Medical Sonography (CAAHEP): Diagnostic Medical Sonography (JRC-DMS)
- Council on Social Work Education: Bachelor of Social Work, Master of Social Work (CSWE)
- Joint Review Committee on Education in Radiologic Technology (JRCERT): Radiologic Technology, Radiation Therapy (JRCERT)
- National Accrediting Agency for Clinical Laboratory Sciences: Clinical Laboratory Science in Conjunction with the University of Nebraska Medical Center (NAACLS)

Academic Advisement

Students who have selected a major in the School of Applied Studies should be advised by a faculty member teaching in that area, the department chair, or the Dean's designate. The students should meet with their advisor at least once each semester to ensure all program requirements are met.

Academic Standards

Students with a declared major in the School must maintain a cumulative Grade Point Average (GPA) of 2.0 in order to graduate or receive a

certificate. To count toward a major, minor, or correlate, students must earn a letter grade of "C" or better.

Students who fail to maintain the university minimum academic standards may be placed on probation or suspended according to the university procedures. All students are expected to follow the established standards of academic honesty and integrity. Failure to meet these standards may result in dismissal.

Certain programs uphold additional academic standards for continuance in the program. Students are advised to contact their faculty advisors, department chair, or the dean's office for details.

Scholarship/Financial Aid

Many alumni, friends and organizations have given generously to provide financial assistance through scholarships to outstanding students in The School of Applied Studies. Information is available by contacting The School of Applied Studies, Dean's Office, 785-670-1282, and on our website www.washburn.edu/sas (<http://www.washburn.edu/sas/>) or Financial Aid, 785-670-1151. To be considered for scholarships in the School of Applied Studies, students must make direct application to the School each year. The deadline for applications is February 15th.

Phi Theta Kappa

Phi Theta Kappa (PTK) is a nationally-organized and recognized scholastic honor society. The PTK Alpha Mu Omicron chapter is sponsored by the School of Applied Studies. The objective of the Alpha Mu Omicron chapter is to recognize and honor those students in two-year degree programs who have attained scholastic excellence in their respective fields of study.

To be eligible, students must be enrolled at Washburn University; must have completed at least twelve credit hours at Washburn with grade point average of 3.5 or above. Only courses taken at Washburn are considered in determining eligibility. Letters of invitation are mailed to eligible individuals. For more information contact the Allied Health department.

Lambda Nu Honor Society

Lambda Nu is a nationally organized and recognized scholastic honor society. The Kansas Theta chapter is sponsored by the Allied Health Department in the School of Applied Studies. The objectives are to foster academic scholarship at the highest academic record, promote research and investigation in the radiologic and imaging sciences and recognize exemplary scholarship.

To be eligible, students must be enrolled at Washburn University and have a 3.5 grade point average after one full semester of a professional radiologic or imaging program. Exemplary honors may be achieved upon evidence of additional professional recognition (i.e., academic paper or poster presentation, publication, etc.). For more information contact the Allied Health department.

Tau Upsilon Alpha

The department is a chartered campus member of Tau Upsilon Alpha (TUA). Tau Upsilon Alpha is the local chapter of the National Organization for Human Services (NOHS) Honor Society. Each chapter evaluates qualified students and issues invitations to membership.

SAS Departmental Honors

In the School of Applied Studies, students are eligible to receive Departmental honors upon graduation if they fulfill the following minimum requirements:

Baccalaureate Degree Honors

- A grade point average of 3.5 in all major coursework.
- Successful completion of a scholarly, creative, community, or service project or an equivalent deemed suitable by the department.
- The recommendation of the department is required.
- Individual departments may specify additional requirements.

Associate Degree Honors

- A minimum grade point average of 3.5 in all major and correlate courses, with a minimum of 30 hours of degree courses completed at Washburn University.
- Grade point averages are calculated on all required major and required correlated courses applied to the Associate degree.
- The recommendation of the department is required.
- Individual departments may specify additional requirements.

Certificate Honors

- A minimum grade point average of 3.75 in the certificate coursework.
- At least half the required certificate credit hours must be earned at Washburn University in the department awarding the certificate.
- Student must take all courses for a letter grade.
- The recommendation of the department is required.
- Individual departments may specify additional requirements.

School of Applied Studies Honors

WUTech students graduating with an associate degree from the School of Applied Studies departments are eligible to receive honors if they meet the following minimum requirements:

- A minimum grade point average of 3.5 in all coursework, with a minimum of 15 hours of degree coursework completed at Washburn University.

Dean's Honor Roll

Students who have achieved a semester grade point average of 3.4 or better are honored by having their names placed on the Dean's Honor Roll. They are notified by the dean of the School of Applied Studies. Must be enrolled at Washburn University in a minimum of 12 semester hours taken for a letter grade at Washburn University is required.

Part-Time Student Dean's Honor Roll

Students whose grade point average for the semester is between 3.40 – 3.99 are honored by having their names placed upon the Dean's Honor Roll and they are so notified by the dean of the School of Applied Studies. Part-time students must complete a minimum of 12 hours in the combined fall and spring semesters of an academic year.

School of Applied Studies Courses

Select courses are offered under the School of Applied Studies that are not part of a specific academic department. Typically these courses are interdisciplinary in nature and can be taken by a student in any of the school's academic departments.

AU 300 Principles of Leadership (3)

This course provides a thorough review of established leadership and management theory, principles, and traits. The course also will focus on leadership skills relevant to future leaders in a wide variety of professional fields.

AU 495 Proseminar (1)

This course is designed as a forum for graduate and faculty exchange of ideas related to teaching scholarship and creative activities. Faculty or faculty and their students can present on their scholarship or research. This is a forum for the exchange of ideas and provides a venue for graduate and select undergraduate students to learn about research and creative endeavors. This forum can also provide an opportunity for collaboration, inquiry, critical analysis and collegial exchange of ideas. For graduate and select undergraduate students this can be an opportunity to present scholarly achievements to a professional audience. A/Pass/Fail only. Course can be repeated.

AU 595 Proseminar (1)

This course is designed as a forum for graduate and faculty exchange of ideas related to teaching scholarship and creative activities. Faculty or faculty and their students can present on their scholarship or research. This is a forum for the exchange of ideas and provides a venue for graduate and select undergraduate students to learn about research and creative endeavors. This forum can also provide an opportunity for collaboration, inquiry, critical analysis and collegial exchange of ideas. For graduate and select undergraduate students this can be an opportunity to present scholarly achievements to a professional audience. A/Pass/Fail only. Course can be repeated.

Degrees

The School of Applied Studies offers the following degrees:

- Associate of Arts (AA),
- Associate of Science (AS),
- Bachelor of Applied Science (BAS),
- Bachelor of Health Science (BHS),
- Bachelor of Criminal Justice (BCJ),
- Bachelor of Legal Studies (BLS),
- Bachelor of Social Work (BSW),
- Master of Arts in Family and Human Services (MA),
- Master of Criminal Justice (MCJ),
- Master of Health Science (MHS), and
- Master of Social Work (MSW).

The School also offers Certificates of Completion in selected programs.

In addition to University degree requirements common to all associate degree programs (see Degrees, Common Requirements (p. 68)), the student must complete all major and correlate courses specific to each program (see specific program requirements (p. 74)).

For baccalaureate degrees, students must meet the university degree requirements common to all baccalaureate programs (see Degrees,

Common Requirements (p. 67)) and complete all major and correlate courses specific to each program (see specific program requirements (p. 74)).

Departments in the School of Applied Studies

- Allied Health Department (p. 223)
- Criminal Justice and Legal Studies Department (p. 245)
- Human Services Department (p. 258)
- Social Work Department (p. 266)
- Associate Degree Programs with Washburn Institute of Technology (p. 270)

Allied Health Department

Website: www.washburn.edu/allied-health (<https://www.washburn.edu/allied-health/>)

Faculty

Michelle Shipley, MS, Associate Professor and Chair
 Zach Frank, DPT, Associate Professor (SAS Associate Dean)
 Jera Roberts, EDSpec, Associate Professor
 Becky Dodge, PhD, Assistant Professor
 Rusty Taylor, MEd, Senior Lecturer
 Rhonda Boeckman, BA, Lecturer
 Toni Caldwell, MHA, Lecturer
 Kristina Collins, MHS, Lecturer
 Sean Conrad, BA, Lecturer
 Keith Farwell, MHSc, Lecturer
 Jessica Gremmel, BS, Lecturer
 Jennifer Halstead, AS, Lecturer
 Craig Haugsness, PhD, Lecturer
 Stacie Hawkins, MHS, Lecturer
 Ida Johnson, MHS, Lecturer
 Janelle Johnson, MBA, MS, Lecturer
 Mark Kohls, DPT, Lecturer
 Amanda Lisher, MS, Lecturer
 Hillary Lolley, MHS, Lecturer
 Corinne Oliva, BA, Lecturer
 Stephanie Sedlacek, MAOT, Lecturer
 Terry Sorensen, DHSc, Lecturer
 Kraig Dafoe, Senior Administrative Assistant
 Lisa Rieschick, Senior Administrative Assistant

Mission

The mission of the department is to prepare qualified individuals for careers in Allied Health and technical professions for the community, the state and across the globe. This is accomplished through excellent teaching with high levels of faculty-student interaction and relationships with community partners to enhance education experiences.

The mission for the Allied Health Department is met:

- At the certificate and associate degree level by preparing competent individuals for entry level and advanced professional practice, with the ability to provide a consistent standard and quality of care.
- At the bachelor's degree level by preparing health care professionals for advanced clinical and administrative practice, and technical professionals for administrative and managerial careers.
- At the master's degree level by preparing existing health care professionals to educate future health care providers.

Student Learning Outcomes

Allied Health students, upon completion of their respective professional programs, are expected to have:

- Demonstrated the ability to comprehend, apply, and evaluate medical information relevant to their professional discipline.
- Obtained the proficiency of all the skills necessary to fulfill their professional discipline.
- Demonstrated professional behavior consistent with employer expectations in their professional discipline.

Programs

- Bachelor of Health Science (p. 231)
 - Health Services Administration, BHS (p. 231)
 - Medical Imaging, BHS (p. 232)
 - Diagnostic Medical Sonography, Concentration (p. 232)
 - Magnetic Resonance (MR), Concentration (p. 233)
 - Radiation Therapy, Concentration (p. 233)
 - Medical Laboratory Science, BHS (p. 234)
 - Health Services Administration, Minor (p. 237)
- Diagnostic Medical Sonography, Certificate (<https://catalog.washburn.edu/undergraduate/school-applied-studies/allied-health-department/dms-certificate/>)
- Health Information Coding, Certificate (p. 237)
- Health Information Technology, AS (p. 237)
- Magnetic Resonance, Certificate (<https://catalog.washburn.edu/undergraduate/school-applied-studies/allied-health-department/mr-certificate/>)
- Occupational Therapy Assistant, AS (p. 238)
- Physical Therapist Assistant, AS (p. 239)
- Radiation Therapy, Certificate (p. 240)
- Radiologic Technology, AS (p. 241)
- Respiratory Therapy, AS (p. 242)
- Surgical Technology Collaborative Program, AS (p. 242)
- Technology Administration, BAS (p. 242)
 - Technology Administration, Minor (<https://catalog.washburn.edu/undergraduate/school-applied-studies/allied-health-department/technology-administration-bas/minor/>)

Course Offerings

Allied Health

AL 101 Foundations of Healthcare (3)

An overview of the role of various health care professions, ethical and legal responsibilities, patient communication methods, cultural competence, patient assessment techniques, medical terminology, electronic health records and preventative health care. Through role playing and case studies, students learn how the various members of the health care team interact and communicate with one another in order to provide the most efficient and effective delivery of patient care. Additional technical competencies included in this course are: assessment of vital signs, safe body mechanics, patient transfers and safety, basic first aid, standard and transmission-based infection precautions.

AL 120 Radiographic Procedures & Patient Care I (3)

Focuses on the principles of producing and evaluating radiographs of the skeletal and urinary systems. Discusses patient care procedures such as vital signs, infection control, medical emergencies and aseptic techniques. Prerequisite: Admission to the Radiologic Technology program and concurrent with AL 120A.

AL 120A Procedures Lab I (0)

Required laboratory demonstrations will include chest, KUB, upper extremity, lower extremity, spine, and contrast studies. A one hour weekly session is held on campus. Concurrent with AL 120.

AL 121 Radiographic Procedures & Patient Care II (3)

Explores those procedures employed in the more complicated investigation of the human body. Continues to examine present techniques necessary for the assessment and care of the ill and injured patient. Prerequisites: AL 120, AL 130, AL 134, and concurrent with AL 121A.

AL 121A Procedures Lab II (0)

Required laboratory demonstrations include spine, contrast studies, cranium, bony thorax, and miscellaneous positions. A one hour session is held each week. Concurrent with AL 121.

AL 130 Radiographic Exposure I (3)

Principles of radiographic image formation related to digital imaging. Physics of x-ray production and influences on image creation. The course provides an understanding and analysis of the radiographic image. Prerequisite: Admission to the Radiologic Technology program and concurrent with AL 130A.

AL 130A Exposure Lab I (0)

Demonstrations will be directed towards the primary factors of radiograph (image) production. An energized x-ray unit will be available for the one hour weekly session. Concurrent with AL 130.

AL 131 Radiographic Exposure II (3)

A continuation of AL 130 emphasizing imaging principles. Problem solving through mathematical application. Techniques of quality control. An additional fee is associated with this course. Prerequisites: AL 120, AL 130, AL 134, and concurrent with AL 131A or consent.

AL 131A Exposure Lab II (0)

Demonstrations will involve the imaging systems, computation of radiation dosages, and quality control techniques. The one hour weekly session will utilize an energized x-ray unit. Concurrent with AL 131.

AL 134 Radiology Clinical I (3)

This course requires a specific number of hours of limited radiographic assistance in a healthcare setting. Students will achieve competency in simple procedures under direct supervision. Prerequisite: Admission to the Radiologic Technology program.

AL 135 Radiology Clinical II (3)

This course requires a specific number of hours of limited radiographic assistance in a healthcare setting. This course builds on competencies achieved in AL 134. Students will achieve competency in more complex procedures with direct and/or indirect supervision. Prerequisite: AL 134 or consent.

AL 141 Medical Terminology (3)

This course covers word elements that form the base on which the medical language is constructed, including commonly used abbreviations. Emphasis on competency in spelling, pronunciation, correct usage and meaning of terminology related to all body systems, medical science and medical specialties.

AL 150 Principles of Health Information Technology (3)

This course covers the organization, analysis, and evaluation of health records, methods of storage, retrieval and preservation, an introduction to computer and information systems in health care, and an overview of health information department management. Prerequisites: AL 101, Admission to HIT Program.

AL 157 Specialized Records & Registries for Health Information Technology (2)

This course explores health information requirements in non-hospital settings including long-term and ambulatory care, & functions and procedures for specialized health information registries. Prerequisite: AL 150, AL 366 or concurrent.

AL 161 Foundations of Occupational Therapy (2)

This course is an introduction to the history and philosophical base of occupational therapy. Areas of instruction include: models of practice; frames of reference; the role of the Occupational Therapist/Occupational Therapy Assistant; Code of Ethics; Core Values; Standards of Practice and the Delivery of Occupational Therapy Services. Prerequisite: Formal Admission to the Occupational Therapy Assistant Program.

AL 162 Occupational Therapy Interventions I (3)

This lecture and lab course will discuss the dynamics of the occupation to include the activity, performance skills, and performance patterns from conception to age 18. The student will exhibit the ability to analyze tasks and implement an intervention plan for the occupational therapy client. Prerequisite: AL 161.

AL 163 Foundations of Occupational Therapy II (3)

This lecture/lab course is a continuation of AL 161 and will allow the student to develop the ability to select and implement occupational therapy interventions related to the activities of daily living. Prerequisite: AL 161 and concurrent with AL 164.

AL 164 Level I Occupational Therapy Fieldwork (1)

This course requires a specific number of hours of limited occupational therapy assistant exposure in the healthcare setting. Prerequisite: AL 161 and Concurrent with AL 163.

AL 165 Occupational Therapy Assistants - Psychosocial Disorders (1)

This course will provide the student with the knowledge and understanding of the concepts of psychiatric disorders and human behavior as it relates to the role of occupational therapy services. This course will focus on psychosocial mental health disorders with dementia, physical injury, trauma, or neurological dysfunction. Prerequisite: AL 164.

AL 166 Occupational Therapy Interventions II (3)

This lecture lab course is a continuation of AL 162 and will discuss the dynamics of the occupation to include the activity, performance skills, and performance from early adulthood to later maturity. Prerequisite: AL 162.

AL 167 Foundations of Occupational Therapy III (3)

This course is a continuation of AL 163 and will allow the student to develop the ability to administer selected assessments, screening, evaluation tools, and skilled observations and to develop skills that relate to analysis of movement, orthotic devices, superficial thermal and mechanical modalities. Prerequisite: AL 163.

AL 170 Physical Therapy Procedures (3)

This class features the development of early Physical Therapy skills and the understanding of basic procedures. Specific emphasis is placed on range of motion, measurement of range of motion, therapeutic exercise basics, aseptic and isolation techniques, proper bed positioning, massage, transfers, wheelchair management, architectural barriers, locomotion training, documentation, vital signs and safety. All skills are reinforced and practiced in supervised scheduled laboratories and open lab sessions. Prerequisite: Admission to PTA Program.

AL 171 Musculoskeletal Assessment in Physical Therapy (3)

This course follows AL 170 PT Procedures in the curriculum sequence and is designed to provide the Physical Therapist Assistant student with a foundation for musculoskeletal assessment and treatment. Emphasis is on orthopedic physical therapy assessment, including manual muscle testing, cranial nerve testing, dermatomal and myotomal assessment, special tests, joint mobilization theory, therapeutic exercise, motor control theory, clinical decision making according to the Physical Therapist Plan of Care, identification of red flags, specific orthopedic protocols and implementation of specific physical therapy programs for various rehab clients. Prerequisite: AL 170 and concurrent enrollment in AL 261

AL 185 Principles of Respiratory Therapy I (2)

Specific modes of respiratory care are examined to understand principles of application to patients, indications, hazards, contraindications, and evaluation of therapy. Emphasis is placed on detailed knowledge of equipment used in these modes. Modes of care include medical gas therapy, humidity and aerosol therapy, lung expansion techniques and basic diagnostic studies. An additional fee is associated with this course. Prerequisite: Consent and concurrent with AL 185L.

AL 185L Principles of Respiratory Therapy Lab (0)

Explores the procedures for specific respiratory therapies. Students will practice skills and complete required competencies. Concurrent with AL 185.

AL 186 Cardiopulmonary Assessment (2)

This course is for Allied Health students and is designed to provide the student with an understanding of the cardiopulmonary systems. Areas of study will include a review and assessment of the anatomy and physiology of the pulmonary, cardiac, and renal systems. Prerequisites: OTA-AL 167; RT-AL 185; PTA-concurrent with AL 265 and AL 272 or consent.

AL 187 Respiratory Therapy Clinical I (3)

An introduction to basic respiratory therapy procedures. Orientation to clinical practice, charting of records, infection control, emergency procedures, therapeutic procedures and diagnostic procedures are emphasized. The student will be introduced to routine respiratory care and equipment. Prerequisite: AL 185.

AL 220 Radiographic Procedures III (2)

Presents cross-sectional anatomy as a background for radiographic related imaging modalities. Develops an awareness of related areas including venipuncture, computed tomography, sonography, nuclear medicine, radiation therapy, magnetic resonance, mammography, and interventional procedures. The investigation of alternative methods of radiography of the atypical patient is included. Prerequisite: AL 121 or consent.

AL 230 Radiologic Equipment Operation (2)

Focuses on radiography physics, electromagnetic radiation, and x-ray production. Emphasizes electrical concepts including electrostatics, circuitry, electromagnetism, rectification and the application of these principles to radiography. A working knowledge of basic algebraic equations is required. Prerequisite: AL 131 or consent.

AL 231 Radiation Protection & Biological Effects (2)

Provides the knowledge and serves to develop the attitude necessary to intelligently protect the patient, themselves, and others from the potentially harmful effects of radiation. Includes an in-depth discussion of biological effects, cell and organism sensitivity, and somatic and genetic effects of ionizing radiation. Prerequisite: AL 121 or AL 131 or consent.

AL 236 Radiology Clinical III (3)

This course requires a specific number of hours of direct radiographic assistance in a healthcare setting. Students will demonstrate competence in a variety of procedures with indirect supervision. Prerequisite: AL 121, AL 131, AL 135, or consent.

AL 237 Radiology Clinical IV (4)

This course requires a specific number of hours of direct radiographic assistance in a healthcare setting. Students demonstrate competence in special procedures utilizing positioning techniques covered in AL 220 with direct supervision. Rotations through specialized areas of radiology will begin. Prerequisite: AL 236 and concurrent with AL 220 or consent.

AL 238 Radiology Clinical V (4)

Additional experience and expertise in routine and non-routine examinations is gained. Rotations through the specialized areas of radiology will continue. Students are under indirect supervision. Prerequisites: AL 237 and AL 220 or consent.

AL 240 Professional Practice I for Health Information Technology (2)

This course includes simulated projects completed independently, and supervised clinical experience in the technical aspects of health records in approved health care facilities and agencies. Prerequisites: Admission to Health Information Technology Program, AL 150 or concurrent enrollment.

AL 241 Professional Practice II for Health Information Technology (3)

Continuation of AL 240. Prerequisite: AL 240.

AL 243 Coding Professional Practice for Health Information Technology (2)

Simulated projects performed independently, and supervised clinical including inpatient and outpatient coding in approved health care facilities and agencies. Prerequisites: AL 245, AL 246, or concurrent.

AL 244 Healthcare Statistics - Health Information Technology (2)

This course covers the collection, computation, analysis, presentation and use of healthcare statistical data. Prerequisite: AL 150.

AL 245 Health Information Coding I (3)

This course covers coding principles for diseases and operations using the International Classification of Diseases. Focus is on the identification, coding & sequencing of inpatient medical diagnosis and procedures. Prerequisites: BI 230, BI 250, AL 320 or concurrent.

AL 246 Health Information Coding II (3)

This course covers coding principles for outpatient services using the International Classification of Diseases and Current Procedure Terminology manuals. Focus is on the identification, coding & sequencing of outpatient diagnosis & procedures. Prerequisite: AL 245.

AL 247 Healthcare Reimbursement Methods (3)

This course covers healthcare reimbursement methodologies and advanced coding skills for inpatient and outpatient settings. Prerequisite: AL 250, AL 246 or concurrent.

AL 250 Seminar in Health Information Technology (1)

This course includes an analysis of major trends and issues affecting health information, review of the fundamental principles of health information technology & successful completion of a simulated certification examination. Concurrent with AL 241.

AL 252 Psychosocial Occupational Therapy (3)

This lecture lab course discusses the role of occupational therapy concerning therapeutic use of self, including one's personality, insights, perceptions and judgments as part of the therapeutic process in individual and group interactions. Prerequisite: AL 165.

AL 253 Level I Occupational Therapy Fieldwork II (1)

This course requires a specific number of hours in the health care setting to allow the student to employ logical thinking, critical analysis, problem solving and creativity as it relates to the occupational therapy clinical setting. Prerequisites: AL 164, AL 167.

AL 254 Current Topics Occupational Therapy (2)

This course will allow the student to obtain the knowledge and understanding of the systems and structures that create federal and state legislation and regulation for occupational therapy. Topics include reimbursement, national, international and state regulations for licensure, certification and/or registration for occupational therapy. Prerequisite: AL 167.

AL 255 Level II Occupational Therapy Fieldwork (8)

This fieldwork placement consists of two, full time, eight week rotations and provides the student with the opportunity to develop into competent, entry-level occupational therapy assistants. The student will be exposed to a variety of clients across the life span and a variety of settings. Prerequisite: Satisfactory completion of all previous coursework.

AL 257 Applied Neurophysiology - Occupational Therapy (3)

This course is designed to provide the Occupational Therapy Assistant with a foundation in applied neurophysiology concepts. This includes, but is not limited to, specific assessment and treatment techniques for patients in special populations, such as spinal cord injury, pediatrics, amputees, traumatic head injury, cerebrovascular accidents, as well as other neurological or cardiovascular disorders. Prerequisite: AL 167 and BI 230.

AL 260 Independent Study (1-3)

Allied Health majors may pursue an independent research project if approved by the Program Director in consultation with the Department Chair. Independent Study may not be used in place of any courses required in the major. Independent Study courses must meet equivalencies to Federal definition of a credit hour. Prerequisites: Consent

AL 261 Therapeutic Modalities in Physical Therapy (3)

This course follows AL 170 Physical Therapy Procedures in the curriculum sequence and is designed to provide the student with a foundation for the use of therapeutic modalities. This course includes instruction on the various modalities of heat, cold, electrical stimulation, hydrotherapy, diathermy, ultrasound, traction, ultraviolet/infrared light and other physical agent modalities and treatments. Prerequisites: AL 170 and concurrent enrollment in AL 171.

AL 264 Physical Therapy Clinical I and Lab (3)

This course involves observation and supervised hands-on treatment of various types of patients in different clinical settings with the practicum of skills learned in AL 170 Procedures and AL 171 Musculoskeletal Assessment in Physical Therapy, and AL 261 Therapeutic Modalities in Physical Therapy. This course will include an on-going communication between the clinical instructor (CI), the student and the academic coordinator. The student is given the opportunity to work with a variety of patients and to begin developing competence as a medical team member. The student also attends 6 clinical labs prior to the start of the clinical rotation to further develop his/her skills with patients and department procedures. Prerequisites: AL 261 and AL 171.

AL 265 Applied Neurophysiology - Physical Therapist Assistant (3)

This lecture/lab course is designed to provide the Physical Therapist Assistant with a foundation in applied neurophysiology concepts and common neurologic disease processes, physical therapy assessment and intervention techniques. This includes, but is not limited to, specific assessment and treatment techniques for patients in special populations, such as spinal cord injury, pediatrics, traumatic head injury, cerebrovascular accidents, as well as other neurological or cardiovascular disorders. Prerequisite: AL 264, AL 268, AL 271 and concurrent enrollment in AL 272 and AL 186.

AL 268 Integumentary Assessment in Physical Therapy (2)

Therapy management of various wounds and integumentary disorders. Specific emphasis will be placed on proper identification/staging of wounds, assessment and measurement, treatment protocols including selection of proper debridement techniques and dressings, along with other topics regarding integumentary assessment and wound care. Prerequisite: AL 261 and AL 171.

AL 271 Health Policy & Systems in Physical Therapy (2)

This course emphasizes professional aspects of the Physical Therapist Assistant. Included in that realm are topics such as professional behavior with colleagues and patients, health care history, policy, and systems, reimbursement guidelines, legislative issues, continuing education and plan for professional advancement, code of ethics, cultural sensitivity and competence, current developments in Physical Therapy, professional relationships, research, evidence based practice, employment, etc. This course is designed to broaden the student's understanding of professional responsibility and motivate them towards personal improvement, commitment and continuing competence in the Physical Therapy profession. Prerequisite: AL 261, AL 171, and concurrent enrollment in AL 264 and AL 268.

AL 272 Current Rehabilitation Techniques in Physical Therapy (2)

This course emphasizes the characteristics, clinical problems, and physical therapy treatment of various rehabilitation patients, including the physical, psychological, sexual and vocational problems encountered. Specialized areas of Physical Therapy such as Aquatics, Geriatrics, Oncology, Women's Health Issues, Prosthetics/Orthotics, Sports Physical Therapy and Pediatrics are included in this course. Prerequisite: Satisfactory completion of all previous coursework. AL 264, AL 268, AL 271 and concurrent enrollment in AL 279.

AL 273 Physical Therapy Issues (1)

In consultation with a faculty member, the student is assigned for intensive study a specific area of concern related to physical therapy. This may include intensive reading and the preparation of patient and/or practitioner educational materials related to the subject. This will give the student an opportunity to develop an area or topic of expertise by exploring various avenues of information and compiling those into one document. During this course the student will also be reviewing for the Program Comprehensive Final to be given during the second or third week of the spring semester. Prerequisites: AL 265, AL 272, AL 186, AL 265, AL 272 and concurrent enrollment in AL 279.

AL 279 Physical Therapy Clinical II & III (6)

This course is clinical in nature and consists of two six-week full-time rotation following the completion of all didactic course work. The student will be involved in practicing all Physical Therapist Assistant skills in an assigned healthcare facility. The course will entail either on-site or phone/skype communication between the clinical instructor, the student and the academic coordinator (at least once during each rotation). The student is given the opportunity to practice advanced applications with direct supervision on a variety of patients and to develop competence as a full-time member of the medical team. Prerequisites: AL 265, AL 272, AL 186, and concurrent enrollment in AL 273.

AL 289 Respiratory Therapy Clinical II (5)

Students are assigned to various clinical settings designed to allow the student to complete procedural evaluations in basic respiratory care. The student will also be introduced to critical care medicine. Prerequisite: AL 187.

AL 290 Special Topics/Allied Health (1-3)

Selected topics related to one of the Allied Health programs, which vary from semester to semester. Announced in advance. Prerequisite: Specified on each topic.

AL 291 Respiratory Therapy Principles and Procedures I (3)

Lectures and laboratory topics on cardiopulmonary resuscitation, airway care and management, emergency care, mechanical ventilation and care of the critically ill patient. Prerequisite: AL 289.

AL 292 Respiratory Therapy Principles and Procedures II (5)

Lectures, simulation and group discussion of diagnostic procedures used by the pulmonary physician in evaluating patients with respiratory disease. Special emphasis will be placed on etiology, pathophysiology, clinical manifestations, patient education, and treatment of obstructed and restricted pulmonary diseases. Prerequisite: Consent

AL 293 Respiratory Therapy Clinical III (5)

An in-depth exploration of critical care medicine. The student will execute procedures relating to care of the patient being mechanically ventilated. The student will also be given clinical experience in EKG's and pulmonary function studies. The student will also be introduced to neonatal critical care medicine. An additional fee is associated with this course. Prerequisite: AL 289.

AL 294 Respiratory Therapy Clinical Topics II (3)

An introduction to medical microbiology. Special emphasis on pathogens related to the cardiopulmonary systems. Students will also be exposed to new, current and advanced clinical respiratory therapy topics. Prerequisite: AL 292.

AL 295 Respiratory Therapy Clinical IV (5)

Clinical rotations in pulmonary rehabilitation/home care, advanced ventilation techniques, hemodynamic monitoring, and specialty rotations that the student is concerned with related to respiratory therapy. Students will also receive clinical experience in pediatrics and neonatology. Prerequisite: AL 293.

AL 296 Respiratory Therapy Clinical Topics III (3)

Instruction in fields of obstetrics, neonatology and pediatrics as related to respiratory care. Includes sections on medical ethics. Prerequisite: AL 382.

AL 300 Introduction to Diagnostic Medical Sonography (3)

An introduction to the Diagnostic Medical Sonography profession. Topics include discussion of sonographic terminology, basic theories of equipment operation, body imaging, seminars in patient care, professionalism, and information concerning clinical education. Prerequisite: Admission to Diagnostic Medical Sonography Program or consent.

AL 301 Clinical Radiation Therapy I (4)

In this course the student therapist will participate in the daily activities of the radiation oncology department while under direct supervision at affiliated clinical education sites. The student therapist will work to develop skills to achieve competency and learn to interact professionally and ethically with staff and patients.

AL 302 Radiation Therapy Principles I (3)

This course is designed to provide a basic overview of radiation therapy treatment planning and delivery concepts as well as foundational knowledge related to patient assessment, pharmacology, ethics, and law.

AL 303 Radiation Therapy Physics I (3)

This course is designed to establish knowledge of basic physics concepts relevant to fundamental physical units, principles, atomic structure, types of radiation, x-ray production, interactions with matter, measurement devices, and x-ray generating equipment.

AL 304 Therapeutic Radiobiology (3)

This course is designed to explore the biological, chemical, and physical effects of radiation on cells, tissues, and the body as a whole.

AL 305 Radiation Therapy Physics II (3)

This course is designed to examine factors that influence and govern the optimal planning of external beam radiation therapy and brachytherapy. Topics include isodose distributions, compensating factors, methods of dosimetric calculations, and clinical applications of treatment beams.

AL 307 Oncology, Simulation, and Treatment Procedures I (3)

This course is designed to examine and evaluate the management of neoplastic disease. The epidemiology, etiology, diagnosis, treatment approaches, sequelae, and prognosis are discussed.

AL 308 Allied Health Portfolio (3)

This is a required course for Bachelor of Health Science majors who are requesting credit for a radiographer, sonographer or radiation therapist accredited program which was not completed at a University/College. Students will develop a portfolio demonstrating completion of appropriate education and registry examinations in addition to retrospective and prospective self-evaluation

AL 309 Foundations of Radiation Therapy (2)

This course is designed to provide an introduction to radiation oncology and the role of the professional radiation therapist. Radiation therapy medical terminology, patient assessment, radiation protection, and safety are explored. Students are oriented to the policies and procedures of the educational program.

AL 310 Radiation Therapy Procedures II (3)

This course is designed to provide instruction regarding radiation therapy quality management.

AL 311 Imaging in Radiation Therapy (3)

This course is designed to introduce crosssectional anatomy as it relates to the practice of radiation therapy with a focus on location of normal gross anatomy and relationship to other structures. Anatomy will be identified in axial (transverse), sagittal, and coronal planes. Radiation oncology imaging and simulation equipment/components, and related devices

AL 315 Allied Health Pharmacology (3)

This course is for allied health students and is designed to familiarize the student with general classification of drugs, the mechanism of action, indications, contraindications, and major adverse effects. Principles of drug administration and pharmacokinetic are also presented.

AL 320 Human Disease (3)

A study of diseases, their causes and complications, and the modern practices of diagnosis and treatment. Prerequisite: BI 230 or BI 250 or BI 255 or BI 275.

AL 321 Advanced Radiographic Imaging (2)

A continuation of disease concepts with a direct application to patient assessment, patient care, selection of radiation exposure factors and radiologic procedures. Prerequisite: Consent.

AL 330 Sonography Principles and Instrumentation I (3)

This course provides information concerning the basic physical principles of sound waves, their applications to the human body, the operation and physical characteristics of the transducer, the method by which the sound waves are converted into an image. In-depth instruction on physics principles and instrumentation will be presented. Prerequisite: Admission to Diagnostic Medical Sonography program or consent.

AL 331 Sonography Principles and Instrumentation II (3)

This course is a continuation through the physics of sonography. It will continue the exploration of the basic physical principles of sound waves, their applications to the human body, the operation and physical characteristics of the transducer, the method by which the sound waves are converted into an image. An in-depth instruction on physics principles and instrumentation will be presented. Prerequisite: Admission to Diagnostic Medical Sonography program or consent.

AL 332 Sonography Principles and Instrumentation III and Registry Review (2)

This course will review all of the curriculum related to the physics of sonography and sonography instrumentation to prepare the student for the national credentialing examinations. Prerequisite: Admission to Diagnostic Medical Sonography program or consent.

AL 340 Clinical Radiation Therapy II (4)

This course is a continuation of AL301. The student therapist will participate in the daily activities of the radiation oncology department while under direct supervision at affiliated clinical education sites. The student therapist will work to develop skills to achieve competency and learn to interact professionally and ethically with staff and patients.

AL 341 Sectional Anatomy & Imaging Applications (4)

Detailed study of gross anatomical structures will be conducted systematically for location, relationship to other structures and function. Gross anatomical structures are located and identified in axial (transverse), sagittal, coronal and orthogonal (oblique) planes. Illustrations and anatomy images will be compared with magnetic resonance (MR) and computed tomography (CT) images in the same imaging planes and at the same level when applicable. The characteristic appearance of each anatomical structure as it appears on CT and MR, when applicable, will be stressed. Prerequisite: Consent.

AL 347 Magnetic Resonance (MR) Physics I (3)

Content is intended to impart an understanding of theories of magnetic resonance properties. Additional concepts such as pulse sequencing, coils, gradient usage and signal production will be covered. Prerequisite: Consent.

AL 348 Magnetic Resonance (MR) Imaging I (3)

Content is designed to provide a review of anatomy involving selected body regions with an understanding of MR tissue characteristics. Routine imaging of the abdomen, pelvis, thorax, musculoskeletal system and central nervous system will be discussed. Common pathology as demonstrated through MR imaging will be presented. Prerequisite: Consent.

AL 349 Magnetic Resonance Clinical Experience I (1-3)

Assignment to a MR facility for application of theory and development of competency in routine imaging. Establish eligibility for certification through the American Registry of Radiologic Technologists. Prerequisite: Consent.

AL 350 Magnetic Resonance (MR) Physics II (3)

A continuation of Physics I concepts including pulse sequencing application, coil selection relating to scans, calculation of scan times as well as scan parameters and image factors. Prerequisite: AL 347 or consent.

AL 351 Magnetic Resonance (MR) Imaging II (3)

A continuation of imaging methods with a focus on non-routine or specialized protocols of the abdomen, pelvis, thorax, musculoskeletal system, central nervous system and vascular system. Prerequisite: AL 348 or consent.

AL 352 Magnetic Resonance Clinical Experience II (1-3)

Assignment to a MR facility for application of theory and development of competency in specialized imaging. Establish eligibility for certification through the American Registry of Radiologic Technologists. Prerequisite: AL 349 or consent.

AL 354 International Health Care Experience (3)

This course will offer students the opportunity to experience the culture of countries other than the United States while engaging in meaningful healthcare services or studies. In addition to completing their studies or service project, students will learn about the history, political systems, healthcare systems and culture of the country they visit. Prerequisite: Permission of the course instructor.

AL 355 Basic Concepts Health Services Administration (3)

This course is designed primarily for students who are new to the Bachelor of Health Science program and do not possess an allied health or other healthcare certification. This course will consist of introductory information and examines the health profession, health care administration and the organization of health care. Prerequisite: None.

AL 360 Independent Study/Allied Health (1-3)

Allied Health majors may pursue an independent research project if approved by the Program Director in consultation with the Department Chair. Independent Study may not be used in place of any courses required in the major. Independent Study courses must meet equivalencies to Federal definition of a credit hour. Prerequisites: Consent

AL 361 General Sonography Clinical I (6)

Students are assigned to various clinical settings to allow the student to begin developing the technical skills necessary to become an entry-level sonographer. Students receive supervision, training, and feedback from a registered sonographer. Prerequisite: Admission to Diagnostic Medical Sonography program or consent.

AL 362 General Sonography Clinical II (6)

Students are assigned to various clinical settings to allow the continuation of developing the technical skills necessary to become an entry-level sonographer. Students receive supervision, training, and feedback from a registered sonographer. Prerequisite: Admission to the Diagnostic Medical Sonography program or consent.

AL 363 General Sonography Clinical III (3)

Students are assigned to various clinical settings to allow the continuation of developing the technical skills necessary to become an entry-level sonographer. Students receive supervision, training, and feedback from a registered sonographer. Prerequisite: Admission to the Diagnostic Medical Sonography program or consent.

AL 366 Legal & Regulatory Issues for the Health Care Professional (3)

This course is an overview of the legal and regulatory issues that impact the delivery of health care. Emphasis will be placed on the management of a health care organization from a leadership perspective. Prerequisite: Admission to the Bachelor of Health Science major/minor or HIT program.

AL 367 Foundations of Quality Improvement in Health Care (3)

The course introduces the student to key quality and process improvement issues impacting the administrators of today's health care organizations and explores how those issues affect the delivery of care. Data-driven process and quality improvement is a central theme in the exploration of a variety of health care topics. This course provides basic knowledge of process improvement to be used in later courses. Prerequisite: Admission to the Bachelor of Health Science major/minor or HIT program.

AL 370 Oncology, Simulation and Treatment Procedures II (3)

This course is designed to examine and evaluate the management of neoplastic disease. The epidemiology, etiology, diagnosis, treatment approaches, sequelae, and prognosis are discussed.

AL 371 Abdomen Sonography Procedures I (3)

This Course will introduce introductory topics concerning abdominal sonography including but not limited to anatomy, pathophysiology, anatomical disease processes, patient care applications and sonographic principles and practices. Prerequisite: Admission to the Diagnostic Medical Sonography program or consent.

AL 372 Abdomen Sonography Proced II (3)

This Course will continue to explore general abdominal sonography and general small parts sonography topics. Topics will include but not limited to anatomy, pathophysiology, anatomical disease processes, patient care applications and sonographic principles and practices. Additionally special topics, pediatrics and interventional sonography practices will be explored. Prerequisite: Admission to the Diagnostic Medical Sonography program or consent.

AL 375 Health Care Policy (3)

This course focuses on government and private policy and how it impacts the delivery of health care. Students will learn how a health care leader can be an advocate for change. Prerequisite: Admission to the Bachelor of Health Science major/minor or HIT program.

AL 379 General Sonography Procedures III and Registry Review (2)

This course will combine all information concerning general sonography procedures and OBGYN sonography procedures courses. This course will serve as a review course with mock board review exams tailored to the requirements of the National Registry exams of the Abdominal and OBGYN specialty board exams. Prerequisite: Admission to the Diagnostic Medical Sonography program or consent.

AL 380 Clinical Radiation Therapy III (3)

This course is a continuation of AL340. The student therapist will participate in the daily activities of the radiation oncology department while under direct supervision at affiliated clinical education sites. The student therapist will work to develop skills to achieve competency and learn to interact professionally and ethically with staff and patients.

AL 381 Radiation Therapy Seminar (3)

This course offers a is designed to provide a systematic review of the ARRT content specifications with a focus on real world radiation therapy situations, which challenge a therapist's problem solving and critical thinking skills. This course prepares the student for the national certification examination and entry-level problem solving.

AL 382 Cardiovascular Monitoring and Scanning (3)

Course for Respiratory Therapy students designed to provide the student with an understanding of cardiovascular monitoring. Areas of study will include an introduction to heart development, review of anatomy and physiology of the heart, hemodynamic monitoring, effects on hemodynamics due to disease states, and cardiac arrhythmia recognition. Prerequisite: Admission to Respiratory Therapy program.

AL 383 Cardiac Sonography Procedures I (3)

The content of this course will an indepth exploration of cardiac embryology, anatomy and physiology, pathophysiology, echocardiographic procedures, imaging techniques, and protocols specific to echocardiography.

AL 384 Cardiac Sonography Procedures II (3)

A detailed and in-depth exploration of various cardiac pathology and their echocardiographic manifestations. Prerequisite: Admission to the Diagnostic Medical Sonography program or consent.

AL 385 Cardiac Sonography Clinical I (6)

Students are assigned to various clinical settings to allow the student to begin developing the technical skills necessary to become an entry-level sonographer. Students receive supervision, training, and feedback from a registered sonographer.

AL 386 Cardiac Sonography Clinical II (6)

Students are assigned to various clinical settings to allow the continuation of developing the technical skills necessary to become an entry-level sonographer. Students receive supervision, training, and feedback from a registered sonographer.

AL 387 Cardiac Sonography Clinical III (3)

Students are assigned to various clinical settings to allow the continuation of developing the technical skills necessary to become an entry-level sonographer. Students receive supervision, training, and feedback from a registered sonographer.

AL 388 Cardiac Sonography Procedures III and Registry Review (2)

The course will cover new and highly specialized procedures in the realm of echocardiography, such as stress echo (treadmill and pharmacological), contrast echocardiography, diastology, and transesophageal echocardiography. It will also provide a review and Mock Testing for Boards. Prerequisite: Admission to the Diagnostic Medical Sonography program or consent.

AL 389 OBGYN Sonography Procedures I (3)

This Course will introduce introductory topics concerning obstetrical and gynecological sonography including but not limited to anatomy, pathophysiology, anatomical disease processes, fetal anatomy and disease, patient care applications and sonographic principles and practices. Prerequisite: Admission to the Diagnostic Medical Sonography program or consent.

AL 390 Special Topics/Allied Health (1-3)

Selected topics related to allied health which vary from semester to semester. Announced in advance. Prerequisite: Consent.

AL 391 Chemistry Application in Respiratory Care (3)

Introduction to medical chemistry. This course will discuss the basic aspects of chemistry and biochemistry as related to cardiopulmonary physiology and therapeutic intervention. This course includes atomic theory, chemical bonding and acid-base balance.

AL 392 OBGYN Sonography Procedures II (3)

This Course will continue to explore obstetrical and gynecological sonography including but not limited to anatomy, pathophysiology, anatomical disease processes, fetal anatomy and disease, patient care applications and sonographic principles and practices. Additionally special topics, fetal anomalies, and interventional OBGYN sonography practices will be explored.

AL 393 Vascular Sonography Procedures I (3)

An in-depth discussion of the anatomy, physiology, and pathophysiology of the peripheral and cerebral vascular systems. The focus will be on the cerebrovascular system and the arterial and venous systems of the lower extremities. Hemodynamics, Doppler waveforms, pressure measurements, plethysmography, appropriate pharmacology, sonographic appearance, and scanning techniques will be discussed. This will include arterial and venous systems, therapeutic intervention, and non-invasive testing-exam protocols. Prerequisite: Admission to Diagnostic Medical Sonography program.

AL 394 Vascular Sonography Procedures II (3)

Continuation of AL 393 to include discussion of the anatomy, physiology, and pathophysiology of the abdominal and peripheral vascular systems. The focus will be on the abdominal vasculature and on the arterial and venous systems of the upper extremities. Hemodynamics, Doppler waveforms, pressure measurements, plethysmography, appropriate pharmacology, sonographic appearance and scanning techniques will be discussed. Therapeutic intervention includes arterial and venous systems, non-invasive testing, and exam protocols. Prerequisite: Admission to the Diagnostic Medical Sonography program or consent.

AL 395 Vascular Sonography Clinical I (6)

Students are assigned to various clinical settings to allow the student to begin developing the technical skills necessary to become an entry-level sonographer. Students receive supervision, training, and feedback from a registered sonographer.

AL 396 Vascular Sonography Clinical II (6)

Students are assigned to various clinical settings to allow the continuation of developing the technical skills necessary to become an entry-level sonographer. Students receive supervision, training, and feedback from a registered sonographer. Prerequisite: AL 395.

AL 397 Vascular Sonography Clinical III (3)

Students are assigned to various clinical settings to allow the continuation of developing the technical skills necessary to become an entry-level sonographer. Students receive supervision, training, and feedback from a registered sonographer.

AL 398 Vascular Procedures III and Registry Review (2)

The course will cover new and highly specialized procedures in the realm of vascular sonography. Among the content will be hemodialysis access, transcranial doppler, and mapping procedures. It will also provide review and Mock Testing for Boards. Prerequisite: Admission to the Diagnostic Medical Sonography Program or consent.

AL 399 Health Information Systems (3)

In this course, students will examine the impact of data and technology on current health care practice. Current trends and future challenges will be discussed with a focus on utilizing information to support and improve health care decision-making. Prerequisite: Admission to the Bachelor of Health Science major/minor or HIT program.

AL 400 Supervisory Practices for the Health Care Professional (3)

The course will introduce students to basic supervisory functions and responsibilities related to managing in health care organizations. Prerequisite: admission to the Bachelor of Health Science major.

AL 405 Financial Issues in Health Care (3)

This course will introduce the student to common financial practices and issues in today's health care facilities, including a focus on the regulatory environment. Prerequisite: Admission to the Bachelor of Health Science major/minor and MA 112 or 116 with a C or higher grade.

AL 420 Current Issues in Health Care (3)

This course will explore current health care issues from the perspective of the Health Services Administrator. Special emphasis will be placed on the impact of the issue under study for the delivery, practice and organization of the American Health care system. Prerequisite: Completion of AL 375 or consent of BHS advisor.

AL 450 Application of Quality Improvement in Health Care (3)

The course builds on the foundations of quality improvement class. It provides students the background to develop and implement quality assurance and patient safety programs according to national initiatives. Students explore methods of making organizations and individuals more adaptive and productive. Emphasis is on using tools and techniques that will improve critical thinking skills and students will apply communication skills to maintain positive stakeholder relationships. Prerequisite: Admission to the Bachelor of Health Science major and AL 367.

AL 460 Research in Health Care (3)

This course is designed to introduce students to the purpose and process of research in health care. Special emphasis is placed on the importance of evidence-based practice in health care. Prerequisite: Admission to the Bachelor of Health Science major and EN 300.

AL 480 Senior Seminar In Healthcare (3)

A capstone course designed to provide integration and application of health care administration and leadership principles. This course also requires a summative reflection of the student's experience and growth as a health care leader. Prerequisite: Admission to the Bachelor of Health Science Health Services Administration major, EN 300, and senior standing. This course should be taken during the last semester. Medical imaging majors require BHS advisor approval.

Bachelor of Health Science

The Allied Health Department offers a Bachelor of Health Science with a major in Health Services Administration or Medical Imaging. These two options are designed to enhance the skills and marketability of health science associate degree graduates, and may also serve as an excellent preparation for those who wish to continue on to a graduate program.

Program Mission

The mission of the Bachelor of Health Science (BHS) is to prepare professionals and pre-professionals for leadership and management positions in health-related fields. The BHS major in Health Services Administration is designed to provide students with the knowledge and skills for healthcare management and leadership. The BHS major in Medical Imaging provides medical imaging technologists with healthcare management knowledge.

Washburn University Assessment – Program Student Learning Outcomes

Upon completion of the program students will be able to:

- PSLO 1: Critically analyze scientific evidence underlying a healthcare problem or condition.
- PSLO 2: Demonstrate problem-solving skills through conceptualization and research.
- PSLO 3: Integrate communication skills through oral and/or written presentations.
- PSLO 4: Demonstrate ability to adapt to a changing healthcare environment.

Programs

- Health Services Administration, BHS (p. 231)
- Medical Imaging, BHS (p. 232)
- Medical Laboratory Science, BHS (p. 234)
- Health Services Administration, Minor (p. 237)

Health Services Administration, BHS

There is a need for qualified managers in the health care field. The Bachelor of Health Science (BHS) in Health Services Administration is designed to provide graduates with knowledge and skills in the areas of health care management and leadership. Completion of a baccalaureate degree with advanced coursework in health care management and related areas will make graduates more marketable for administrative positions.

Admission Requirements

There are two options for admission into the BHS Health Services Administration program:

Option 1: Graduates with an associate degree (or higher) in an allied health field

The following are examples of acceptable health care programs:

- Respiratory Therapy
- Radiologic Technology
- Physical Therapist Assistant
- Health Information Technology
- Occupational Therapy Assistant

Documentation that student is credentialed, licensed or registered in a health care profession may be required. Students that have completed MA 112 Contemporary College Mathematics or MA 116 College Algebra and have been admitted into Washburn's Allied Health associate programs will also meet this criterion.

A cumulative GPA of 2.50 on a 4.00 scale and a minimum of a 2.25 Washburn GPA if appropriate.

Option 2: Students without formal healthcare training/education

45 Completed College Credit Hours including the courses listed below with a grade of "C" or higher:

- MA 112 Contemporary College Mathematics/MA 116 College Algebra University Math Requirement (3)
- AL 101 Foundations of Healthcare (3)
- AL 320 Human Disease (3) – prerequisite is an anatomy or physiology course listed below
- AL 355 Basic Concepts Health Services Administration (3)

AND (Choose one of the Following BI courses)

- BI 230 Introduction to Human Physiology (3)
- BI 255 Human Physiology w/lab (4)
- BI 250 Introduction to Human Anatomy (3)
- BI 275 Human Anatomy w/lab (4)

A cumulative GPA of 2.50 on a 4.00 scale and a minimum of a 2.25 Washburn GPA if appropriate.

Degree Requirements

Code	Title	Hours
AL 366	Legal & Regulatory Issues for the Health Care Professional	3
AL 367	Foundations of Quality Improvement in Health Care	3
AL 375	Health Care Policy	3
AL 399	Health Information Systems	3
AL 400	Supervisory Practices for the Health Care Professional	3
AL 405	Financial Issues in Health Care	3
AL 420	Current Issues in Health Care	3
AL 450	Application of Quality Improvement in Health Care	3
AL 460	Research in Health Care	3
AL 480	Senior Seminar In Healthcare	3
Total Hours		30

See Table of Contents for University Requirements, General Education Graduation Requirements.

Medical Imaging, BHS

The Bachelor of Health Sciences Medical Imaging option allows students to choose from three concentrations:

- Diagnostic Medical Sonography, Concentration (p. 232)
- Magnetic Resonance (MR), Concentration (p. 233)
- Radiation Therapy, Concentration (p. 233)

The need for qualified medical imaging professionals continues to rise. The medical imaging major is designed to provide associate degree healthcare graduates with knowledge and skills in advanced imaging fields and management. Completion of the baccalaureate degree makes graduates more marketable and eligible for leadership and supervisory positions.

Admission Requirements

The major in Medical Imaging requires an associate degree in a patient-care related health care field and prior acceptance to one of the following certificate programs: Diagnostic Medical Sonography, Magnetic Resonance Imaging or Radiation Therapy. Candidates must be credentialed in their allied health specialty and have achieved a cumulative GPA of 2.5 or higher on a 4.0 scale for the Associate degree and a minimum of 2.25 Washburn GPA. Interested students should contact the Allied Health Department for more specific requirements or visit www.washburn.edu/bhs (<https://www.washburn.edu/bhs/>).

Degree Requirements

Code	Title	Hours
AL 320	Human Disease	3
Health Services Administration Core		9
Select one of the following certificate programs:		22-43
Diagnostic Medical Sonography (p. 232)		
Magnetic Resonance Imaging (p. 233)		
Radiation Therapy (p. 233)		
Total Hours		34-55

Diagnostic Medical Sonography, Concentration

The Diagnostic Medical Sonography Program includes three separate tracks which may be completed as stand-alone certificate of completions programs, or may be completed as a component of the Bachelor of Health Science degree with a major in medical imaging (see admission requirements for the BHS Medical Imaging). Each certificate program is 12 months in length. The cardiac and vascular certificates are 34 credit hours while the general certificate is 43 credit hours. These programs provide a balance of didactic and clinical experience that will equip the student with the knowledge and skills to be an entry-level sonographer. The sonography program didactic courses are online and students must have access to high speed internet and possess excellent computer skills.

Program Mission

The Diagnostic Medical Sonography Program is focused on the development of qualified sonographers who provide optimum patient care through technical competency and professional conduct. The program will provide the knowledge and cognitive skills underlying the intelligent performance of major tasks typically required for an entry level staff sonographer.

Washburn University Assessment – Program Student Learning Outcomes

Upon completion of the program students will be able to:

- PSLO 1: Demonstrate competent entry-level sonography skills.
- PSLO 2: Demonstrate professional communication.
- PSLO 3: Demonstrate critical thinking.

Accreditation

The Diagnostic Medical Sonography program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), upon recommendation of the:

Joint Review Committee on Education in Diagnostic Medical Sonography (JRC-DMS)
6021 University Blvd., Ste 500
Ellicott City, MD 21043

Admission Requirements

This program has special admission requirements. The applicant should have an Associate degree or higher, in a healthcare program with hands-on patient care clinical rotations. Examples include: Radiologic Technology, Respiratory Therapy, Physical Therapist Assistant, Occupational Therapy Assistant or Registered Nurse, **and** completion of the following required courses with a C or better: Intermediate Algebra, statistics, or higher college level mathematics course; General college-level physics and/or radiographic physics; Communication skills (English, speech, or composition); Human anatomy (can be combined with physiology); Human physiology (can be combined with anatomy), Human Disease or Pathophysiology and Medical Terminology.

Alternate pathways are available, please visit: www.washburn.edu/ultrasound (<https://www.washburn.edu/ultrasound/>).

Certificate Completion Requirements

Vascular Sonography

Code	Title	Hours
AL 300	Introduction to Diagnostic Medical Sonography	3
AL 330	Sonography Principles and Instrumentation I	3
AL 331	Sonography Principles and Instrumentation II	3
AL 332	Sonography Principles and Instrumentation III and Registry Review	2
AL 393	Vascular Sonography Procedures I	3
AL 394	Vascular Sonography Procedures II	3
AL 395	Vascular Sonography Clinical I	6
AL 396	Vascular Sonography Clinical II	6

AL 397	Vascular Sonography Clinical III	3
AL 398	Vascular Procedures III and Registry Review	2
Total Hours		34

Cardiac Sonography

Code	Title	Hours
AL 300	Introduction to Diagnostic Medical Sonography	3
AL 330	Sonography Principles and Instrumentation I	3
AL 331	Sonography Principles and Instrumentation II	3
AL 332	Sonography Principles and Instrumentation III and Registry Review	2
AL 383	Cardiac Sonography Procedures I	3
AL 384	Cardiac Sonography Procedures II	3
AL 385	Cardiac Sonography Clinical I	6
AL 386	Cardiac Sonography Clinical II	6
AL 387	Cardiac Sonography Clinical III	3
AL 388	Cardiac Sonography Procedures III and Registry Review	2
Total Hours		34

General Sonography

Code	Title	Hours
AL 300	Introduction to Diagnostic Medical Sonography	3
AL 330	Sonography Principles and Instrumentation I	3
AL 331	Sonography Principles and Instrumentation II	3
AL 332	Sonography Principles and Instrumentation III and Registry Review	2
AL 361	General Sonography Clinical I	6
AL 362	General Sonography Clinical II	6
AL 363	General Sonography Clinical III	3
AL 371	Abdomen Sonography Procedures I	3
AL 372	Abdomen Sonography Proced II	3
AL 379	General Sonography Procedures III and Registry Review	2
AL 389	OB/GYN Sonography Procedures I	3
AL 392	OB/GYN Sonography Procedures II	3
Total Hours		40

Magnetic Resonance (MR), Concentration

MR curriculum at Washburn University is a 22 credit hour certificate program, which is conducted online. The certificate is designed to assist registered technologists in meeting the criteria for post-primary certification through the American Registry of Radiologic Technologists (ARRT). The curriculum addresses both didactic and clinical education,

as outlined by the American Society of Radiologic Technologists and the ARRT.

Mission

The Magnetic Resonance program is focused on development of qualified medical imaging technologists who provide optimum patient care.

Washburn University Assessment – Program Student Learning Outcomes

Upon completion of the program students will be able to:

- PSLO 1: Demonstrate the ability to comprehend, apply and evaluation medical information relevant to the profession of magnetic resonance.
- PSLO 2: Demonstrate the technical proficiency in all skills necessary to fulfill the professional discipline of magnetic resonance.
- PSLO 3: Demonstrate professional behavior consistent with graduate expectations in the profession of magnetic resonance.

Admission Requirements

This program has special admission requirements which include ARRT registration in Radiography, Nuclear Medicine Technology, Radiation Therapy or Sonography. Contact the Allied Health Department for additional information or visit: www.washburn.edu/mri (<https://www.washburn.edu/mri/>).

Certificate Requirements

Code	Title	Hours
AL 341	Sectional Anatomy & Imaging Applications	4
AL 347	Magnetic Resonance (MR) Physics I	3
AL 348	Magnetic Resonance (MR) Imaging I	3
AL 349	Magnetic Resonance Clinical Experience I	3
AL 350	Magnetic Resonance (MR) Physics II	3
AL 351	Magnetic Resonance (MR) Imaging II	3
AL 352	Magnetic Resonance Clinical Experience II	3
Total Hours		22

Radiation Therapy, Concentration

The Radiation Therapy curriculum at Washburn University is a 40 credit hour, 13-month, online, certificate of completion program. This program will provide the knowledge and cognitive skills underlying the intelligent performance of the major tasks typically required of a staff radiation therapist at entry level. Graduates are registry eligible with the American Registry of Radiologic Technologists (ARRT).

Program Mission

The Radiation Therapy Program is focused on the development of qualified radiation therapists who provide optimum patient care through technical competency and professional conduct.

Washburn University Assessment – Program Student Learning Outcomes

Upon completion of the program students will be able to:

- PSLO 1 – Students will pass the national certification exam on the 1st attempt within 6 months of graduation.
- PSLO 2 – Students will demonstrate clinical competency by analyzing pertinent data from treatment planning documents.
- PSLO 3 – Students will demonstrate clinical competency by accurately positioning patients for treatment delivery.
- PSLO 4 – Students will demonstrate effective written communication skills.
- PSLO 5 – Students will evaluate images using various imaging technologies (MV, kV, CBCT) to ensure proper patient alignment.
- PSLO 6 – Students will demonstrate professional work standards.

External Accreditation

The Radiologic Technology program is accredited by the:

Joint Review Committee on Education in Radiologic Technology,
20 North Wacker Drive, Suite 2850,
Chicago IL 60606-3182,
(312) 704-5300, e-mail: mail@jrcert.org.

Admission Requirements

This program has special admission requirements. Interested students should contact the Allied Health Department for specific requirements or visit: www.washburn.edu/radiation-therapy (<https://www.washburn.edu/radiation-therapy/>).

The Radiation Therapy program is online and students must have access to the internet, have a webcam and microphone, and possess basic computer skills.

Certificate of Completion Requirements

The Radiation Therapy program is a 13-month program. In addition to the online didactic portion, this program includes a comprehensive clinical component. Clinical courses may be out of sequence with other University course offerings. Consult program director for course schedule.

Code	Title	Hours
AL 301	Clinical Radiation Therapy I	4
AL 302	Radiation Therapy Principles I	3
AL 303	Radiation Therapy Physics I	3
AL 304	Therapeutic Radiobiology	3
AL 305	Radiation Therapy Physics II	3
AL 307	Oncology, Simulation, and Treatment Procedures I	3
AL 309	Foundations of Radiation Therapy	2
AL 310	Radiation Therapy Procedures II	3
AL 311	Imaging in Radiation Therapy	3
AL 340	Clinical Radiation Therapy II	4
AL 370	Oncology, Simulation and Treatment Procedures II	3
AL 380	Clinical Radiation Therapy III	3
AL 381	Radiation Therapy Seminar	3
Total Hours		40

Medical Laboratory Science, BHS

Website: www.washburn.edu/cls (<http://www.washburn.edu/cls/>)

Priority Deadline for Application: December 1

Mission

Upon completion of the medical laboratory science (CLS) education program, the graduate will be the health care team professional responsible for providing laboratory information that is timely, cost-effective and of high quality. The laboratory professional will demonstrate a command of medical laboratory science theory and application such that s/he develops, implements, and evaluates the total laboratory process to improve patient care outcomes.

Washburn University Assessment – Program Student Learning Outcomes

The CLS graduate will demonstrate:

- PSLO 1: Competence through their ability to interpret, assess validity and correlate medical information relevant to their professional discipline.
- PSLO 2: Technical proficiency in all skills necessary to fulfill their professional discipline.
- PSLO 3: Professional behavior consistent with expectations of their professional discipline.

Description of Program

The CLS Program provides patient-centered educational opportunities, with theoretical knowledge and practical experience in hematology, clinical chemistry, microbiology, immunohematology (blood bank), immunology, molecular diagnostics and laboratory management. The program emphasizes laboratory principles and procedures, clinical significance and application, principles and practice of quality assurance, principles of laboratory management and supervision, safety, instructional methods, and computer applications.

CLS Program Goals

- Graduate technically competent practitioners, who interpret, assess validity and correlate clinical laboratory data.
- Instill the highest standards of performance and professional ethics in all graduates.
- Provide graduates with tools that promote sound, independent judgment, successful problem-solving abilities, and essential educational and administrative skills.
- Graduate professionals who are effective communicators with all members of the health care team, patients and the public (community).
- Support and mentor the development of professional responsibility to include lifelong learning activities, teamwork skills, and the ability to adapt to and facilitate change.
- Graduate professionals who actively educate others regarding the integral role of medical laboratory scientists in delivering quality patient care.
- Prepare graduates to pass national certification examinations in order to enter professional practice.

Accreditation

Washburn University's CLS program, in conjunction with the University of Nebraska Medical Center, is accredited by:

National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)
5600 N River Road, Suite 720
Rosemont, IL 60018
(773) 714-8880

Admission Requirements

This program has special admission requirements due to limited enrollment.

In addition to the 43 hours of major coursework listed below, students must meet all prerequisites, general education and university requirements. The prerequisites include a minimum of 16 credit hours of biology and 16 credit hours of chemistry. Interested students should contact the CLS advisor for information about the prerequisites, application requirements and priority application deadlines.

Some students complete a Bachelor of Science degree prior to entering the CLS program. These students should contact the CLS advisor to determine program eligibility.

Degree Requirements

Code	Title	Hours
CL 407	Clinical Laboratory Operations	2
CL 408	Introduction to Clinical Hematology	2
CL 409	Introduction to Microbiology	2
CL 410	Introduction to Clinical Chemistry & Urinalysis	1
CL 411	Introduction to Clinical Immunohematology	1
CL 412	Clinical Laboratory Science Theory, Application, Correlation	5
CL 413	Clinical Endocrinology & Toxicology	1
CL 414	Clinical Chemistry & Urinalysis I	2
CL 415	Clinical Chemistry & Urinalysis II	2
CL 416	Clinical Hematology I	2
CL 417	Clinical Hematology II	2
CL 418	Clinical Microbiology I	2
CL 419	Clinical Microbiology II	2
CL 420	Clinical Immunology & Molecular Diagnostics	2
CL 422	Clinical Immunohematology I	2
CL 423	Clinical Immunohematology II	2
CL 430	Clinical Laboratory Management I	2
CL 431	Clinical Laboratory Management II	3
CL 442	Clinical Immunohematology Practicum I	1
CL 443	Clinical Immunohematology Practicum II	1
CL 444	Clinical Core Lab Practicum I	1
CL 445	Clinical Core Lab Practicum II	1
CL 448	Clinical Microbiology Lab Practicum I	1
CL 449	Clinical Microbiology Lab Practicum II	1
Total Hours		43

CL 407 Clinical Laboratory Operations (2)

This course provides a basic introduction to the theory, practical application, technical performance and evaluation of laboratory skills specific to the practice of clinical laboratory science. Laboratory safety; microscopy; pipetting; general laboratory equipment; quality control; mathematics; phlebotomy; pre-analytic, analytic and post-analytic processes, including specimen collection, processing and transport to maintain test result integrity, will be addressed. Prerequisite: Admission to the Clinical Laboratory Science program.

CL 408 Introduction to Clinical Hematology (2)

This course introduces the theory, practical application, technical performance and evaluation of hematological and hemostasis procedures. There is an emphasis on the correlation of clinical laboratory data with the diagnosis of erythrocyte, leukocyte and bleeding/clotting disorders. Prerequisite: Admission to the Clinical Laboratory Science program.

CL 409 Introduction to Microbiology (2)

This course introduces the theory, practical application, technical performance and evaluation of procedures for isolation, identification and susceptibility testing of infectious disease organisms in humans. The course focuses on bacteriology, emphasizing the correlation of clinical laboratory data with the patient's diagnosis and treatment. Prerequisite: Admission to Clinical Laboratory Science program.

CL 410 Introduction to Clinical Chemistry & Urinalysis (1)

This course introduces the theory, practical application, technical performance and evaluation of basic laboratory skills and methods in clinical chemistry and urinalysis. Correlation of laboratory data with the diagnosis and treatment of carbohydrate, renal, liver, protein, electrolyte and acid-base disturbances is emphasized. Prerequisite: Admission to Clinical Laboratory Science program.

CL 411 Introduction to Clinical Immunohematology (1)

This course introduces the theory, practical application, technical performance and evaluation of immunohematology procedures required for the collection, processing, storage and transfusion of blood and blood components and management of immunohematologic conditions. Prerequisite: Admission to Clinical Laboratory Science program.

CL 412 Clinical Laboratory Science Theory, Application, Correlation (5)

This course includes the application, evaluation and correlation of laboratory procedures used in the diagnosis and treatment of common disease states. Opportunities for building critical thinking, oral communication, professional behavior, and teamwork skills are provided in small group clinical case decisions.

CL 413 Clinical Endocrinology & Toxicology (1)

This course incorporates advanced theory, practical application, and evaluation of clinical chemistry laboratory procedures. Correlation of clinical laboratory data with diagnosis and treatment of endocrine disorders, toxicology disturbances and therapeutic drug monitoring is emphasized.

CL 414 Clinical Chemistry & Urinalysis I (2)

This course expands on the theory, practical application, technical performance and evaluation of basic laboratory procedures introduced in CL410, Introduction to Clinical Chemistry and Urinalysis. This course will focus on the interpretation, evaluation, and correlation of clinical laboratory data with the diagnosis and treatment of carbohydrate, renal, liver, protein, cardiac, lipid, electrolytes, trace elements, pancreatic-GI and acid-base disturbances. Prerequisite: CL 410.

CL 415 Clinical Chemistry & Urinalysis II (2)

This course expands on the theory, practical application, and evaluation of laboratory procedures introduced in CL 414 Clinical Chemistry and Urinalysis I and CL 444 Clinical Core Laboratory Practical I. Correlation of clinical laboratory data with the diagnosis and treatment monitoring of carbohydrate, renal, hepatic, cardiac, lipid/lipoprotein, protein, major and minor electrolyte, trace element, enzyme, pancreatic-gastrointestinal and acid-base disorders; tumor markers; and inborn errors of metabolism is emphasized. Prerequisite: CL 414.

CL 416 Clinical Hematology I (2)

This course expands on the theory, practical application, technical performance and evaluation of hematological and hemostasis procedures introduced in Introduction to Clinical Hematology. There is an emphasis on the correlation of clinical laboratory data with the diagnosis and treatment of erythrocyte, leukocyte and bleeding/clotting disorders. Prerequisite: CL 408

CL 417 Clinical Hematology II (2)

This course expands on the theory, practical application, and evaluation of hematological and hemostasis procedures introduced in CL 416 Clinical Hematology I and CL 444 Clinical Core Laboratory Practicum I, and includes the analysis of cerebrospinal, synovial and serous fluids. Correlation of clinical laboratory data with the diagnosis and treatment of erythrocyte, leukocyte and bleeding/clotting disorders will be emphasized. Prerequisite: CL 416.

CL 418 Clinical Microbiology I (2)

This course expands on the theory, practical application, technical performance and evaluation of procedures for isolation, identification and susceptibility testing of infectious disease organisms in humans introduced in Introduction to Clinical Microbiology. The course focuses on bacteriology emphasizing the correlation of clinical laboratory data with patient's diagnosis and treatment. Prerequisite: CL 409.

CL 419 Clinical Microbiology II (2)

This course incorporates advanced theory, practical application, technical performance and evaluation of procedures for isolation, identification and susceptibility testing of infectious disease organisms in humans. This course includes bacteriology, mycology, parasitology, virology and serology, and emphasizes the correlation of clinical laboratory data with the patient's diagnosis and treatment. Prerequisite CL 418.

CL 420 Clinical Immunology & Molecular Diagnostics (2)

This course includes the theory, practical application, and evaluation of immunological components, principles and methodologies used in the assessment of immunologically related disorders, including hypersensitivity reactions, autoimmune, immunoproliferative and immunodeficient disorders. The theory and application of molecular diagnostic tools, such as polymerase chain reaction (PCR), nucleic acid probes, and microarrays are also addressed. Prerequisite: Declared major in Clinical Laboratory Science and acceptance into CLS program.

CL 422 Clinical Immunohematology I (2)

This course expands on the theory, practical application, technical performance and evaluation of immunohematology procedures required for the collection, processing, storage and transfusion of blood and blood components and management of immunohematologic conditions that was introduced in CL 411 Introduction to Clinical Immunohematology. Prerequisite: CL 411.

CL 423 Clinical Immunohematology II (2)

This course incorporated advanced theory, practical application, technical performance and evaluation of blood bank procedures required for transfusion of blood and blood components and for handling and storage of blood and blood components. Prerequisite: CL 422.

CL 430 Clinical Laboratory Management I (2)

This course includes the theory, practical application, technical performance and evaluation of laboratory management principles and associated models. Lectures and assignments focus on effective written and oral communications, critical evaluation of research studies, compliance and regulatory issues, educational methodology, human resources financial management, laboratory operations, cultural competency, professionalism and ethical decision making. Opportunities to build problem-solving, teamwork and management skills are provided.

CL 431 Clinical Laboratory Management II (3)

This course includes the theory, practical application, technical performance and evaluation of laboratory management principles and associated models. Opportunities for building critical thinking, problem-solving, and management/professional leadership skills are provided. Prerequisite: CL 430.

CL 442 Clinical Immunohematology Practicum I (1)

This course provides practical application in a clinical laboratory setting for the technical performance and evaluation of clinical immunohematology procedures and preparation of blood components. Course content will include new skills and procedures, in addition to the skills and procedures presented in CL 407 Clinical Laboratory Operations and CL 411 Introduction to Clinical Immunohematology. Prerequisite: Admission to Clinical Laboratory Science program.

CL 443 Clinical Immunohematology Practicum II (1)

This course provides practical application in a clinical laboratory setting for the technical performance and evaluation of clinical immunohematology procedures and preparation of blood components. Course content will include new skills and procedures, in addition to the skills and procedures presented in CL 442 Clinical Immunohematology Practicum I. Prerequisite: Admission to the Clinical Laboratory Science program.

CL 444 Clinical Core Lab Practicum I (1)

This course provides practical application in a clinical laboratory setting for the technical performance and evaluation of clinical hematology/hemostasis, chemistry and urinalysis procedures. Course content will include new skills and procedures and the application of automation and automatic verification techniques, building on the skills and procedures presented in CL 407 Clinical Laboratory Operations, CL 408 Introduction to Clinical Hematology and CL 410 Introduction to Clinical Chemistry and Urinalysis. Prerequisite: Admission to the Clinical Laboratory Science program.

CL 445 Clinical Core Lab Practicum II (1)

This course provides practical application in a clinical laboratory setting for the technical performance and evaluation of clinical hematology/hemostasis, chemistry and urinalysis procedures. Technical content will include new skills and procedures, in addition to CL 444 Clinical Core Practicum I. Prerequisite: Admission to Clinical Laboratory Science program.

CL 448 Clinical Microbiology Lab Practicum I (1)

This course provides practical application in a clinical laboratory setting for the technical performance and evaluation of clinical microbiology procedures. Course content will include new skills and procedures, in addition to the skills and procedures presented in CL 407 Clinical Laboratory Operations and CL 409 Introduction to Clinical Microbiology. Prerequisite: Admission to Clinical Laboratory Science program.

CL 449 Clinical Microbiology Lab Practicum II (1)

This course provides practical application in a clinical laboratory setting for the technical performance and evaluation of clinical microbiology procedures. Course content will include new skills and procedures, in addition to the skills and procedures presented in CL 448 Clinical Microbiology Laboratory Practicum I. Prerequisite: Admission to Clinical Laboratory Science program.

Health Services Administration, Minor

Students may develop a specialization in health services through earning a Minor in Health Services Administration by completing a set of five specific upper-division courses in the health services administration field.

Admission Requirements

Interested students must apply for admission to the minor program with the Bachelor of Health Science advisor

in the department of Allied Health. The requirements for acceptance into the minor program are junior standing, a cumulative GPA of 2.5 or higher on a 4.0 scale and a minimum of 2.25 Washburn GPA. Students are required to have completed MA 112 Contemporary College Mathematics/MA 116 College Algebra University Math Requirement with a "C" or higher grade.

Minor Requirements

Code	Title	Hours
AL 366	Legal & Regulatory Issues for the Health Care Professional	3
AL 367	Foundations of Quality Improvement in Health Care	3
AL 375	Health Care Policy	3
AL 399	Health Information Systems	3
AL 405	Financial Issues in Health Care	3
Total Hours		15

Health Information Coding, Certificate

Certificate Requirements

This 32 credit hour program leads to a Certificate in Health Information Coding. All certificate course work may be applied to the Associate degree in Health Information Technology. Courses required to complete the Certificate include:

Code	Title	Hours
AL 101	Foundations of Healthcare	3
AL 141	Medical Terminology	3
AL 243	Coding Professional Practice for Health Information Technology	2
AL 245	Health Information Coding I	3
AL 246	Health Information Coding II	3
AL 247	Healthcare Reimbursement Methods	3
AL 320	Human Disease	3

AL 366	Legal & Regulatory Issues for the Health Care Professional	3
BI 100	Introduction to Biology	3
BI 250	Introduction to Human Anatomy	3
BI 230	Introduction to Human Physiology	3
Total Hours		32

Health Information Technology, AS

This program leads to an Associate of Science (AS) degree in Health Information Technology. The program features a sound base in general education in addition to professional courses and professional practice experience designed to guide students in the development of the technical skills necessary to become a Health Information Technician. Courses in the program major are on-line and students must have access to the internet and possess basic computer knowledge.

Accreditation

The Health Information Technology Associate degree Program is accredited by:

The Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM)
200 East Randolph Street, Suite 5100
Chicago, IL 60601
www.cahiim.org (<http://www.cahiim.org>)

Program Mission

The Health Information Technology program is focused on the development of qualified health information technicians who meet the demands of the health care industry through technical competence and professional conduct.

Washburn University Assessment – Program Student Learning Outcomes

Upon completion of the program students will be able to:

- PSLO 1: Demonstrate entry-level HIM (health information management) competencies.
- PSLO 2: Demonstrate the technical proficiency in all skills necessary to fulfill the professional discipline of health information technology.
- PSLO 3: Demonstrate professional behavior consistent with employer expectations in the professional discipline.

Admission Requirements

This program has special admission requirements. Interested students should contact the Allied Health Department for specific requirements or visit www.washburn.edu/hit (<http://www.washburn.edu/hit/>).

Degree Requirements

Code	Title	Hours
Major Courses		
AL 141	Medical Terminology	3
AL 150	Principles of Health Information Technology	3
AL 157	Specialized Records & Registries for Health Information Technology	2

AL 240	Professional Practice I for Health Information Technology	2
AL 241	Professional Practice II for Health Information Technology	3
AL 244	Healthcare Statistics - Health Information Technology	2
AL 245	Health Information Coding I	3
AL 246	Health Information Coding II	3
AL 247	Healthcare Reimbursement Methods	3
AL 250	Seminar in Health Information Technology	1
AL 366	Legal & Regulatory Issues for the Health Care Professional	3
AL 367	Foundations of Quality Improvement in Health Care	3
AL 375	Health Care Policy	3
AL 399	Health Information Systems	3
Subtotal		37
Correlate Courses ¹		
AL 101	Foundations of Healthcare	3
AL 320	Human Disease	3
BI 250	Introduction to Human Anatomy	3
BI 230	Introduction to Human Physiology	3
EN 208	Professional Writing	3
CM 101	Computer Concepts and Applications	3
Subtotal		18
Prerequisite		
BI 100	Introduction to Biology	3
Subtotal		3
Total Hours		58

¹ Some correlate courses may count for University Requirements and General Education Requirements; consult your advisor.

Occupational Therapy Assistant, AS

The Occupational Therapy Assistant Program leads to the Associate of Science (AS) degree. Upon successful completion of the program, its graduates will be eligible to sit for the national certification examination for the occupational therapy assistant administered by the National Board for Certification in Occupational Therapy (NBCOT)®.

The program features general education and science requirements as well as occupational therapy procedure and systems courses and Level I and II Fieldwork education component. During fieldwork courses students may be required to attend clinical sites outside the Topeka area. All students in this program are required to provide their own transportation to clinicals as well as clinical lab attire. Professional liability insurance is provided by Washburn University, however, some clinical sites may require malpractice insurance.

Program Mission

Occupational Therapy (OT) is a skilled treatment that helps individuals achieve independence in all facets of their lives. Occupational Therapy assists people in developing the skills for the job of living and necessary for independent and satisfying lives. Occupational therapy assistants

(OTA) assist the OTs to implement the treatment plans to help individuals to achieve independence.

Washburn University's mission states that it: shall prepare qualified individuals for careers, further study and lifelong learning through excellence in teaching and scholarly work. The Occupational Therapy Assistant program will assist with meeting the mission through increasing healthcare services in our region. There is a need in the rural communities and local cities/communities for a more diverse set of allied health professionals, i.e. occupational therapy assistants, to provide well rounded service to the community.

Washburn University Assessment – Program Student Learning Outcomes

Upon completion of the program students will:

- PSLO 1: Be educated as a generalist with a broad exposure to the delivery models and systems used in settings where occupational therapy is currently practiced and where it is emerging as a service.
- PSLO 2: Have achieved entry-level competence through a combination of academic and fieldwork education.
- PSLO 3: Be prepared to articulate and apply occupational therapy principles and intervention tools to achieve expected outcomes as related to occupation.
- PSLO 4: Be prepared to articulate and apply therapeutic use of occupations with individuals or groups for the purpose of participation in roles and situations in home, school, workplace, community, and other settings.
- PSLO 5: Be able to apply occupational therapy interventions to address the physical, cognitive, psychosocial, sensory, and other aspects of performance in a variety of contexts and environments to support engagement in everyday life activities that affect health, well-being, and quality of life.
- PSLO 6: Uphold the ethical standards, values, and attitudes of the occupational therapy profession.
- PSLO 7: Understand the distinct roles and responsibilities of the occupational therapist and occupational therapy assistant in the supervisory process.
- PSLO 8: Be prepared to effectively communicate and work interprofessionally with those who provide care for individuals and/or populations in order to clarify each member's responsibility in executing components of an intervention plan.

Accreditation

The occupational therapy assistant program is accredited by the:

Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA)
Montgomery Lane, Suite 200,
Bethesda, MD 20814-3449.
(301) 652-AOTA, www.acoteonline.org (<http://www.acoteonline.org>).

Graduates of the program will be eligible to sit for the national certification examination for the occupational therapy assistant administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be a Certified Occupational Therapy Assistant (COTA). In addition, all states require licensure in order to practice; practice. Requirements for each state's license may be found at each state's individual licensing board. Note that a felony conviction may affect a

graduate's ability to sit for the NBCOT certification examination and/or attain state licensure.

Note: Students must complete Level II fieldwork within 18 months following completion of the didactic portion of the program.

Occupational Therapy Assistant Committee (OTAC)

The purpose of the Occupational Therapy Assistant Committee (OTAC), the program's student organization, is to provide an opportunity to promote and educate the community about Occupational Therapy Services. OTAC provides an avenue that enables professional growth, leadership, develops peer support and mentorship. OTAC members provide volunteerism and community service within the university and surrounding communities.

Admission Requirements

This program has special admission requirements. Interested students should contact the Allied Health Department for specific requirements.

Degree Requirements

Code	Title	Hours
Major Courses		
AL 161	Foundations of Occupational Therapy	2
AL 162	Occupational Therapy Interventions I	3
AL 163	Foundations of Occupational Therapy II	3
AL 164	Level I Occupational Therapy Fieldwork	1
AL 165	Occupational Therapy Assistants - Psychosocial Disorders	1
AL 166	Occupational Therapy Interventions II	3
AL 167	Foundations of Occupational Therapy III	3
AL 186	Cardiopulmonary Assessment	2
AL 252	Psychosocial Occupational Therapy	3
AL 253	Level I Occupational Therapy Fieldwork II	1
AL 254	Current Topics Occupational Therapy	2
AL 255	Level II Occupational Therapy Fieldwork	8
AL 257	Applied Neurophysiology - Occupational Therapy	3
Subtotal		35
Correlate Courses		
AL 101	Foundations of Healthcare	3
AL 320	Human Disease	3
BI 230	Introduction to Human Physiology	3
BI 250	Introduction to Human Anatomy	3
PY 100	Basic Concepts in Psychology	3
SO 101	Social Problems	3
Subtotal		18
Total Hours		53

See Table of Contents for University Requirements and General Education Requirements.

Physical Therapist Assistant, AS

The Physical Therapist Assistant Program leads to the Associate of Science (AS) degree. Upon completion of the program students are

eligible to take the national examination through the Federation of State Boards in Physical Therapy (FSBPT) to become Physical Therapist Assistants (PTA). The program features general education and science requirements as well as physical therapy procedure and systems courses and a clinical education component. During clinical courses students may be required to attend clinical sites outside the Topeka area. All students in this program are required to provide their own transportation to clinicals as well as clinical lab attire. Professional liability insurance is provided by Washburn University, however, some clinical sites may require malpractice insurance.

Mission

The mission of the Physical Therapist Assistant Program is to offer a quality career oriented program allowing graduates to become credentialed Physical Therapist Assistants. To help students achieve this goal, the program is focused on providing excellence in teaching with high faculty-student interaction and enhanced educational experiences through relationships with community partners. By doing so, it allows students to realize their intellectual, academic, and professional potential so they can become lifelong learners who are responsible and productive members of the health care team and local community, state, and region.

Washburn University Assessment - Program Student Learning Outcomes

Upon completion of the program students will be able to:

- PSLO 1: Demonstrate the ability to work under the supervision of a physical therapist in an ethical, legal, safe, and effective manner.
- PSLO 2: Implement a comprehensive treatment plan developed by a physical therapist.
- PSLO 3: Communicate regularly with supervising physical therapists about the patient's progress or adjustments made in treatment procedures in accordance with changes in patient status.
- PSLO 4: Perform appropriate measurement techniques within the knowledge and limits of practice to assist the supervising physical therapists in monitoring and modifying the plan of care.
- PSLO 5: Interact with patients and families in a manner which provides the desired psychosocial support including the recognition of cultural and socioeconomic differences.
- PSLO 6: Participate in the teaching of other health care providers, patients, and families.
- PSLO 7: Document relevant aspects of patient treatment and participate in discharge planning and follow-up care.
- PSLO 8: Demonstrate effective written, oral, and nonverbal communication with patients and their families, colleagues, health care providers, and the public.
- PSLO 9: Understand the levels of authority and responsibility; planning, time management, supervisory process, performance evaluations, policies, and procedures; fiscal considerations for physical therapy providers and consumers, and continuous quality improvement.
- PSLO 10: Practice professional development through reading and interpreting professional literature, participation in professional organizations, and attendance at continuing education programs.
- PSLO 11: Graduate pass rates for the PTA Certification Examination will be at or above the national pass rate average.

Accreditation

The Physical Therapist Assistant Program at Washburn University is accredited by:

The Commission on Accreditation in Physical Therapy Education (CAPTE)
111 North Fairfax Street
Alexandria, Virginia 22314
telephone: 703-706-3245; e-mail: accreditation@apta.org;
website: www.capteonline.org (<http://www.capteonline.org>).

If needing to contact the program/institution directly, please call 785-670-2170 or email mark.kohls@washburn.edu.

Physical Therapy Club

The purpose of the Physical Therapy Club is to provide an environment which facilitates professional growth, creates a community of professionals for mentorship and peer support, and develops a group that will provide community and educational leadership and service at Washburn University and the surrounding geographical area.

Admission Requirements

This program has special admission requirements. Interested students should contact the Allied Health Department for specific requirements or visit: www.washburn.edu/pta (<http://www.washburn.edu/pta/>). A maximum of twenty-four students are accepted for the fall of each year.

Degree Requirements

Code	Title	Hours
Major Courses		
AL 170	Physical Therapy Procedures	3
AL 171	Musculoskeletal Assessment in Physical Therapy	3
AL 186	Cardiopulmonary Assessment	2
AL 261	Therapeutic Modalities in Physical Therapy	3
AL 264	Physical Therapy Clinical I and Lab	3
AL 265	Applied Neurophysiology - Physical Therapist Assistant	3
AL 268	Integumentary Assessment in Physical Therapy	2
AL 271	Health Policy & Systems in Physical Therapy	2
AL 272	Current Rehabilitation Techniques in Physical Therapy	2
AL 273	Physical Therapy Issues	1
AL 279	Physical Therapy Clinical II & III	6
Subtotal		30
Correlate Courses		
AL 101	Foundations of Healthcare	3
AL 320	Human Disease	3
BI 230	Introduction to Human Physiology	3
BI 275	Human Anatomy ¹	4
KN 321	Anatomical Kinesiology	3
IL 170	Library Research Strategies	1
Subtotal		17
Total Hours		47

¹ No online Anatomy or Physiology courses are accepted by the PTA program.

See Table of Contents for University Requirements and General Education Requirements.

Radiation Therapy, Certificate

The Radiation Therapy curriculum at Washburn University is a 40 credit hour, 13-month, online, certificate of completion program. This program will provide the knowledge and cognitive skills underlying the intelligent performance of the major tasks typically required of a staff radiation therapist at entry level. Graduates are registry eligible with the American Registry of Radiologic Technologists (ARRT).

Program Mission

The Radiation Therapy Program is focused on the development of qualified radiation therapists who provide optimum patient care through technical competency and professional conduct.

Washburn University Assessment – Program Student Learning Outcomes

Upon completion of the program students will be able to:

- PSLO 1 – Students will pass the national certification exam on the 1st attempt within 6 months of graduation.
- PSLO 2 – Students will demonstrate clinical competency by analyzing pertinent data from treatment planning documents.
- PSLO 3 – Students will demonstrate clinical competency by accurately positioning patients for treatment delivery.
- PSLO 4 – Students will demonstrate effective written communication skills.
- PSLO 5 – Students will evaluate images using various imaging technologies (MV, kV, CBCT) to ensure proper patient alignment.
- PSLO 6 – Students will demonstrate professional work standards.

External Accreditation

The Radiation Therapy program is accredited by the Joint Review Committee on Education in Radiologic Technology, 20 North Wacker Drive, Suite 2850, Chicago IL 60606-3182, (312) 704-5300, e-mail: mail@jrcert.org.

Admission Requirements

This program has special admission requirements. Interested students should contact the Allied Health Department for specific requirements or visit the Radiation Therapy web site.

The Radiation Therapy program is online and students must have access to the internet, have a webcam and microphone, and possess basic computer skills.

Degree Requirements

Course Sequence

The Radiation Therapy program is a 13-month program. In addition to the online didactic portion, this program includes a comprehensive clinical component. Clinical courses may be out of sequence with other University course offerings. Consult program director for course schedule.

Requirements for Certificate of Completion

Required Major Courses (40 Credit Hours)

Code	Title	Hours
AL 301	Clinical Radiation Therapy I	4
AL 302	Radiation Therapy Principles I	3
AL 303	Radiation Therapy Physics I	3
AL 304	Therapeutic Radiobiology	3
AL 305	Radiation Therapy Physics II	3
AL 307	Oncology, Simulation, and Treatment Procedures I	3
AL 309	Foundations of Radiation Therapy	2
AL 310	Radiation Therapy Procedures II	3
AL 311	Imaging in Radiation Therapy	3
AL 340	Clinical Radiation Therapy II	4
AL 370	Oncology, Simulation and Treatment Procedures II	3
AL 380	Clinical Radiation Therapy III	3
AL 381	Radiation Therapy Seminar	3
Total Hours		40

Radiologic Technology, AS

This program leads to an Associate of Science (AS) degree in Radiologic Technology, with graduates eligible to apply for examination through the American Registry of Radiologic Technologists (ARRT). The program features general education as well as radiologic technology courses.

The program provides a balance of on-campus courses, labs and clinical education. Approximately twenty-four students are accepted for the fall of each year.

Mission

The Radiologic Technology (Radiographer) program is focused on development of qualified medical imaging technologists who provide optimum patient care through competency and professional conduct.

Program Goals (External Accreditation)

- Students and graduates will demonstrate clinical competence.
- Students will utilize critical thinking and problem-solving skills.
- Students will evaluate the significance of professional growth and development.
- Students will be able to communicate effectively.

External Accreditation

The Radiologic Technology program is accredited by the:

Joint Review Committee on Education in Radiologic Technology
20 North Wacker Drive, Suite 2850,
Chicago IL 60606-3182
(312) 704-5300, e-mail: mail@jrcert.org.

Washburn University Assessment – Program Student Learning Outcomes

Upon completion of the program students will be able to:

- PSLO 1: Demonstrate the ability to comprehend, apply and evaluate medical information relevant to the professional radiologic technology.
- PSLO 2: Demonstrate the technical proficiency in all skills necessary to fulfill the professional discipline of radiologic technology.
- PSLO 3: Demonstrate professional behavior consistent with graduate expectations in the profession of radiologic technology.

Radiologic Technology Student Organization

Students who are enrolled in the radiologic technology program have the opportunity to join the Radiologic Technology Student Organization (RTSO). The purpose of the RTSO is to create an awareness of the radiologic technology program to the University and community, to maintain communication with alumni and other Kansas programs, and to engage in campus, community and professional organization activities to further the knowledge of the practice of radiologic technology.

Admission Requirements

This program has special admission requirements due to limited enrollment, which includes Introduction to Anatomy. Interested students should contact the Allied Health Department for specific requirements or visit <http://www.washburn.edu/xray> (<http://www.washburn.edu/xray/>).

Degree Requirements

Code	Title	Hours
Required Major Courses		
AL 120	Radiographic Procedures & Patient Care I (plus lab)	3
AL 121	Radiographic Procedures & Patient Care II (plus lab)	3
AL 130	Radiographic Exposure I (plus lab)	3
AL 131	Radiographic Exposure II (plus lab)	3
AL 134	Radiology Clinical I	3
AL 135	Radiology Clinical II	3
AL 220	Radiographic Procedures III	2
AL 230	Radiologic Equipment Operation	2
AL 231	Radiation Protection & Biological Effects	2
AL 236	Radiology Clinical III	3
AL 237	Radiology Clinical IV	4
AL 238	Radiology Clinical V	4
AL 321	Advanced Radiographic Imaging	2
Subtotal		37
Correlate Courses		
BI 230 or BI 255	Introduction to Human Physiology Human Physiology	3
BI 250 or BI 275	Introduction to Human Anatomy Human Anatomy	3
AL 101	Foundations of Healthcare	3
AL 320	Human Disease	3
Subtotal		12
Total Hours		49

See Table of Contents for University Requirements and General Education Requirements.

Respiratory Therapy, AS

The Respiratory Therapy program leads to an Associate of Science (AS) degree in Respiratory Therapy. Upon completion of the program, students are eligible to take the national credentialing examination to become a Registered Respiratory Therapist (RRT). The program features general educational and science prerequisites, as well as respiratory therapy courses. Interested students are required to make application for admission to the Respiratory Therapy Program. Eighteen students are accepted for the fall of each year.

Program Mission

The Respiratory Therapy program is focused on development of qualified graduates who are prepared to provide the essentials for the safe and effective delivery of respiratory care and patient education.

Program Goals

The goal of the Respiratory Care program is to prepare graduates as competent registered respiratory therapists (RRTs). Professional competence combines cognitive, psychomotor and affective skills essential for the safe and effective delivery of respiratory care. The Respiratory Care program uses the outcome-based education model to ensure students develop and master the knowledge, skills and professional behaviors expected of the registered respiratory therapist (RRT).

Washburn University Assessment – Program Student Learning Outcomes

Upon completion of the program students will be able to:

- PSLO 1: Demonstrate the ability to comprehend, apply, and evaluate medical information relevant to a registered respiratory therapist.
- PSLO 2: Demonstrate the technical proficiency in all skills necessary to function as a registered respiratory therapist.
- PSLO 3: Demonstrate professional behavior consistent with employer expectations as performed by registered respiratory therapists.

Accreditation

The Respiratory Therapy program is accredited by the Commission on Accreditation for Respiratory Care (www.coarc.com (<http://www.coarc.com>)).

Commission on Accreditation for Respiratory Care
PO Box 54876
Hurst, Texas 76054-4876

Respiratory Therapy Student Organization

The Respiratory Care Student Organization (RCSO) is made up of any enrolled University student who has an interest in health and promotion of the cardiopulmonary system. The purpose of the RCSO is to promote the purpose and program of respiratory care to the community to include but not limited to: asthma education, smoking cessation, pulmonary function screening; and to compete in the academic contest at the annual Kansas Respiratory Care Society's conference.

Admission Requirements

This program has special admission requirements due to limited enrollment. Interested students should contact the Allied Health Department for specific requirements or visit www.washburn.edu/respiratory/ (<http://www.washburn.edu/respiratory/>).

The Respiratory Therapy Program adheres to policies of non-discrimination as defined by various federal and state laws and regulations.

Degree Requirements

Code	Title	Hours
Major Courses		
AL 185	Principles of Respiratory Therapy I	2
AL 187	Respiratory Therapy Clinical I	3
AL 289	Respiratory Therapy Clinical II	5
AL 291	Respiratory Therapy Principles and Procedures I	3
AL 292	Respiratory Therapy Principles and Procedures II	5
AL 293	Respiratory Therapy Clinical III	5
AL 294	Respiratory Therapy Clinical Topics II	3
AL 295	Respiratory Therapy Clinical IV	5
AL 296	Respiratory Therapy Clinical Topics III	3
Subtotal		34
Correlate Courses		
AL 101	Foundations of Healthcare	3
AL 186	Cardiopulmonary Assessment	2
AL 315	Allied Health Pharmacology	3
AL 382	Cardiovascular Monitoring and Scanning	3
BI 230	Introduction to Human Physiology	3
BI 250	Introduction to Human Anatomy	3
Subtotal		17
Prerequisite		
BI 100	Introduction to Biology	3
Subtotal		3
Total Hours		54

See Table of Contents for University Requirements and General Education Requirements. Some related courses may count here, consult your advisor.

Surgical Technology Collaborative Program, AS

The Associate of Science degree in Surgical Technology is offered to students who have been admitted to the Washburn Institute of Technology Surgical Technology program. For more information, see the "Associate Degree Programs with Washburn Institute of Technology (p. 273)" section in the catalog.

Technology Administration, BAS

The Bachelor of Applied Science degree with a major in Technology Administration is available for students who have completed an occupational oriented associate degree and are interested in pursuing

further studies to advance in a technology-management related career. The degree accommodates students from diverse disciplines whose associate degree academic major does not easily lead to a bachelor's degree.

The nature of the program affords the flexibility to meet the needs of students from many technical backgrounds who desire to develop or expand skills to enhance their career opportunities. The curriculum is designed to complement the students' technical and professional skills by providing foundation studies in technological and management topics. Courses are tailored to students' diverse learning capabilities using instructional resources varying from traditional (e.g., classroom work, textbooks) to advanced technology (e.g., online courses). All the courses for the TA major are available online or by transfer from another college. Interested students should contact the Allied Health department for specific requirements or visit: www.washburn.edu/techadmin (<http://www.washburn.edu/techadmin/>).

Mission

The Technology Administration Program develops administrators, managers, team leaders, supervisors and other professionals who understand technology; its impact on humanity; and use tools, techniques, and systems to enhance their effectiveness in a global, competitive environment.

Washburn University Assessment – Program Student Learning Outcomes

Technology Administration students at Washburn University, upon graduation, are expected to be able to:

- PSLO 1: Demonstrate the impact that technology has on the individual, society, and civilization.
- PSLO 2: Apply the current legal decisions and organization policies to the development and management of technology.
- PSLO 3: Apply life cycle system development methods to reduce risks associated with management decisions.
- PSLO 4: Demonstrate the application of process and behavior data to improve efficiency in a production environment.
- PSLO 5: Identify the core competencies of effective project management and demonstrate how skilled project managers are crucial to an organization.
- PSLO 6: Select quality indicators that can be used to modify inputs and impact measured system outputs in a management operation.
- PSLO 7: Demonstrate competence in the use of the skills required for analyzing, communicating and problem solving complex and unpredictable situations where the management of technology is a central issue.
- PSLO 8: Demonstrate oral and written communication skills, and the ability to work in teams.

Major

The major for this degree consists of an integrative core of technological and administrative courses. This sequence of courses focuses on personnel management, accounting, finance, organizational systems, the evolution and impact of technology, systems design and evaluation, safety issues and quality assurance, and a capstone technology project.

Minor Options

Students who have successfully completed the required and elective courses of the BAS in Technology Administration may qualify for a minor. Minor options include Business Administration, Communication Studies, Health Services Administration or Public Administration. Specific course requirements for the minors appear in the information below. For assistance, in declaring a minor, please contact the:

School of Business office in HC 114,
(785) 670-1308;

Communication Studies office in MO 206,
(785) 670-2230;

Health Services Administration office in BE 107,
(785) 670-2170 or,

Public Administration office in HC 215,
(785) 670-1737.

Applied Science/Technology Area

This section of the degree program relates to the major courses from the student's associate degree. Because of the diverse nature of associate degree programs, credit hour completion of technical related courses could range up to 48 credit hours.

Admission Requirements

Candidates for admission to the Bachelor of Applied Science degree program with a major in Technology Administration must meet the following requirements:

- Completion of an associate degree from an accredited institution.
- A cumulative grade point average of 2.0 or higher on a 4 point scale on the associate degree and with a grade of "C" or higher in all major and related courses.
- Contact the Technology Administration Program director for advising.

Degree Requirements

Code	Title	Hours
Technology Core		
TA 300	Evolution & Development of Technology	3
TA 310	Technology & Society	3
TA 320	System Design, Assessment, & Evaluation	3
TA 330	Safety Analysis & Quality Assurance	3
TA 400	Technology Administration	3
TA 420	Technology Project	3
Select three of the following:		9
TA 340	Technology Policy	
TA 360	Independent Study	
TA 370	Technology Internship	
TA 380	Technology and the Future	
TA 381	Technology and Ecology	
TA 390	Special Topics in Technology	
TA 410	Technology Planning	
Subtotal		27
Administration		
Select a minor:		15-21

Business minor (p. 244)	
Communications Studies minor (p. 244)	
Health Services Administration minor (p. 244)	
Public Administration minor (p. 244)	
Subtotal	15-21
Applied Technology/Science	
Associate degree major courses - up to 58 credit hours	58
Subtotal	58
Total Hours	100-106

Additional courses are available to complete the minor and should be discussed with the appropriate department advisor.

Business Minor Requirements

Code	Title	Hours
Required Courses		
EC 200	Principles of Microeconomics (prerequisite, required for minor)	3
EC 201	Principles of Macroeconomics (prerequisite, required for minor)	3
AC 224	Financial Accounting	3
BU 250	Management Information Systems (or equivalent)	3
BU 342	Organization & Management	3
BU 345	Human Resources Management	3
BU 346	Organizational Behavior	3
Total Hours		21

Additional courses are available to complete the minor and should be discussed with the appropriate department advisor.

Communication Studies Minor Requirements

Code	Title	Hours
CN 101	Introduction to Communication Studies (prerequisite, required for minor)	3
CN 150	Public Speaking (prerequisite, required for minor)	3
Select nine (9) credit hours from the following:		9
CN 302	Communication Theory	3
CN 309	Political Communication	3
CN 330	Communication in Conflict and Negotiation	3
CN 340	Interviewing	3
CN 350	Persuasion	3
CN 361	Communication in Social Movements	3
Total Hours		33

Additional courses are available to complete the minor and should be discussed with the appropriate department advisor.

Health Services Administration Minor Requirements

Code	Title	Hours
AL 366	Legal & Regulatory Issues for the Health Care Professional	3

AL 367	Foundations of Quality Improvement in Health Care	3
AL 375	Health Care Policy	3
AL 399	Health Information Systems	3
AL 405	Financial Issues in Health Care	3
Total Hours		15

Additional courses are available to complete the minor and should be discussed with the appropriate department advisor.

Public Administration Minor Requirements

Code	Title	Hours
PO 106	The Government of the United States (required for the minor)	3
PO 107	Kansas and the U.S., State and Local Government (required for the minor)	3
PO 245	Introduction to Public Administration (required for the minor)	3
Select nine (9) credit hours from the following:		9
PO 306	Urban-Metropolitan Government	
PO 391	Public Personnel Administration	
PO 393	Public Budgeting	
PO 394	Public Management Techniques	
PO 395	Non-Profit Management	
Total Hours		18

For university and general education requirements, see the index in this catalog.

TA 210 Technology Survey (3)

Reviews the historical and practical development of technology in a wide variety of settings. Students will learn about the development of technological innovation and the effect on today's society; systems design and analysis; planning and managing a safe environment; tools and techniques to forecast future development in technology; the conflict between technological innovation and resources including local, national and global consequences; using and managing technology in the workplace and at home; and leadership and management in a variety of settings with a technology focus. Prerequisite: none.

TA 300 Evolution & Development of Technology (3)

This course includes a historical account of the development and innovation of technology. Emphasis is on the development of scientific knowledge and its relationship to inventions, their role in careers and impact on civilization.

TA 310 Technology & Society (3)

Course will focus on current technology in the context of historical development and the effect of technology on today's society. Students will develop critical analysis of technological innovation through a variety of readings, research and projects.

TA 320 System Design, Assessment, & Evaluation (3)

This course provides practice in skills to analyze organizational opportunities and evaluates systems using techniques such as flow charts, cause and effect diagrams and others to determine how systems can be utilized to meet organizational challenges. The course will cover such topics as systems planning, analysis, design, testing, implementation and maintenance. Prerequisite: MA 110, or MA 112, or MA 116, or MA 140.

TA 330 Safety Analysis & Quality Assurance (3)

The purpose of the course is to review the organization of accident prevention programs, job hazards, accident cost control, and planning and maintaining a safe environment. The course includes analysis of data, including the use of statistical process control, risk management, and quality assurance issues such as inspections, reports, and external standards of federal, state and local agencies.

TA 340 Technology Policy (3)

This course will provide an in-depth study of policy and law practices relating to technology. The course will deal with technology policy, legal ramifications in relation to local environments, state, national and international communities. Consideration in the course will deal with issues such as technological efficiency, socio-economic development, environment, security and others. Special emphasis will be given to the political process in which technology policies are shaped in public and private organization.

TA 360 Independent Study (1-4)

Technology Administration majors may pursue an independent research project approved by the Program Director in consultation with the Department Chair. Independent Study may not be used in place of any courses required of the TA work major. Independent Study courses must meet equivalencies to Federal definition of a credit hour. Prerequisites: Consent

TA 370 Technology Internship (1-4)

Provides the opportunity under the direction of a faculty member to gain insight and practical experiences in an area of technology administration.

TA 380 Technology and the Future (3)

This course will examine applications of a variety of prediction tools and techniques to forecast future developments in their career field. Outcomes will include identification and implementation of strategies to create a desired future in an operation, production or market. Prerequisite: (MA 110 or MA 112 or MA 116) and EN 101.

TA 381 Technology and Ecology (3)

The purpose of the course is to examine ecological policy in terms of technology and innovation, including the political, geographical, legal and social contexts in which technological innovation occurs. The course will examine conflicts between innovation and resources, risk assessment, national and global impact, and scale of consequences.

TA 390 Special Topics in Technology (1-3)

These special topic courses cover a variety of subjects designed to instill current topics into the technology program.

TA 400 Technology Administration (3)

This course provides an introduction to several core concepts in technology management and the role of managers of technology in their respective organizations. The course will cover topics such as technology strategy, effective use of resources, the impacts of technology systems, funding technology and ethical approaches to using and managing technology.

TA 410 Technology Planning (3)

This course investigates the increasing use of projects to accomplish organizational goals, including how project plan inputs are accurately gathered, integrated and documented. Topics include project life cycle, work breakdown structure, and the importance of quality, risk, and contingency management in planning development. Prerequisite: None.

TA 420 Technology Project (3)

Students working individually and in teams will complete projects as assigned. These projects may take a variety of forms, but will integrate students' technical and professional coursework. Students will be required to produce written and oral presentations of their projects. Evaluation will be based both on individual performance and performance as a team member. Leadership skills will be a critical component of the course. This Capstone project requires summative reflection, serving as a culminating experience for Bachelor's degree students. Prerequisite: TA 300, TA 310, TA 320, TA 330 or concurrent.

Criminal Justice and Legal Studies Department

Website: www.washburn.edu/cj (<https://www.washburn.edu/cj/>)

Faculty

Melanie Worsley, JD, Associate Professor and Chair
 Gerald Bayens, PhD, Professor (Dean, Washburn Institute of Technology)
 Ryan Alexander, PhD, Associate Professor
 Patricia Dahl, PhD, Associate Professor
 Erin Grant, JD, Associate Professor
 Amy Memmer, JD, Associate Professor
 Kirk Kimberly, PhD, Assistant Professor
 Michelle Watson, JD, Assistant Professor
 Susan Kobzar, Senior Administrative Assistant

Mission

The Criminal Justice and Legal Studies degree programs prepare students to pursue advanced educational opportunities and to obtain productive careers in law enforcement, corrections, security administration, forensics, and the law. The programs are designed to produce knowledgeable students who possess the necessary theoretical, practical, and critical thinking skills to compete in today's job market. Faculty bring practical and academic experience to the classroom and are committed to excellence in teaching. Diversity is valued in the Criminal Justice and Legal Studies degree programs, and faculty are dedicated to producing ethical graduates who are prepared to succeed in their chosen profession.

Criminal Justice Fast Track Program

The Criminal Justice Fast Track Program allows criminal justice majors at Washburn University the opportunity to complete their Bachelor of Criminal Justice (BCJ) and Master of Criminal Justice (MCJ) degrees in five years.

Students who participate in the Fast Track Program will be eligible to take up to 12 hours of MCJ classes and have those 12 hours count towards the program electives requirement of the BCJ degree as well as the MCJ degree requirements. Students may enroll in the Fast Track Program even if they do not plan on using all 12 hours of MCJ classes to satisfy BCJ degree requirements, but this will affect their ability to graduate with both degrees within a five-year period.

Although the Fast Track Program is primarily designed for incoming freshmen, students may participate in the program after their freshman year. Students who intend to complete the Fast Track Program must work carefully with the MCJ Program Coordinator to plan their course schedules and are required to officially enroll in the program after completing 90 hours of undergraduate coursework. Fast Track students

will apply for admission to the MCJ program the last semester of their senior year.

Eligibility Requirements

- BCJ degree seeking at Washburn University
- Have completed 90 hours of undergraduate work, including all core undergraduate courses
- Have a cumulative GPA of 3.0 or better in the last two years (sixty hours) of college course work from accredited institutions
- Accepted into the Fast Track Program

Completion Requirements

- Maintain a 3.0 or higher GPA in both the BCJ and MCJ programs
- Complete all requirements for graduation for the BCJ and MCJ degrees
- Students who fail to comply with the grade requirements may be dropped from the Fast Track Program.

Questions concerning the degrees or eligibility for enrollment should be addressed to Melanie Worsley, the department chair (melanie.worsley@washburn.edu).

Student Associations & Honor Societies

Alpha Phi Sigma

Alpha Phi Sigma is a National Criminal Justice Honor Society. Students must meet academic eligibility requirements to apply.

Criminal Justice Association

The Criminal Justice Association is a student organization headed by an Executive Committee of 4-5 officers and a faculty advisor. The Association was created in 1987 and maintains an annual membership of 50-100 undergraduate students who are majoring in law enforcement, forensic investigations, corrections, or security administration. CJA actively participates in WU events such as Bod Blast, Homecoming and Career Days.

KCA/ACA Student Chapter

A student organization affiliated with the Kansas Correctional Association and American Correctional Association.

Legal Studies – WPA

The Washburn Paralegal Association (WPA) is a student organization for legal studies majors. It was formed in order to promote and maintain high standards in the paralegal profession, to offer and encourage continuing education for paralegals, to provide a forum for meeting and exchanging ideas, and to assist legal studies students in realizing their career and educational goals. This organization offers students in the program opportunities to network with other students and to gain leadership skills.

Criminal Justice Core Program Student Learning Outcomes

All Criminal Justice undergraduate students at Washburn University, upon graduation, are expected to be able to:

- Critically evaluate key concepts and issues pertaining to diversity and ethics within the criminal justice system.
- Demonstrate proficient communication relevant to the criminal justice field.

- Demonstrate the ability to apply criminal justice research to practices in the criminal justice field.

Major Emphasis

Students majoring or minoring in Criminal Justice must earn a grade of "C" or better in all required major or minor courses, including required correlate courses. A minor is required for the BCJ degree and must be approved by the Criminal Justice Department.

Programs

- Criminal Justice, AA (p. 250)
- Criminal Justice, Minor (p. 250)
- Corrections, BCJ (p. 250)
- Forensic Investigations, BCJ (p. 251)
- Law Enforcement, BCJ (p. 251)
- Security Administration, BCJ (p. 252)
- Legal Studies (p. 252)
 - Legal Studies, BLS (p. 254)
 - Legal Studies, AA (p. 255)
 - Legal Studies, Minor (p. 255)
 - Legal Studies, Certificate (p. 255)
 - Legal Studies Program Options with Washburn Institute of Technology (p. 256)
- Military & Homeland Security Studies (p. 256)

Course Offerings

Criminal Justice

CJ 100 Crime & Justice in America (3)

This is an introductory course in the field of criminal justice. It introduces the student to the nature and extent of crime in America and provides a detailed description of the components of the American criminal justice system: police, courts and corrections. In the second portion of the course, the role of the crime victim and the principal functions of criminal justice agencies are considered.

CJ 110 Introduction to Law Enforcement (3)

This course examines the history and major functions of modern law enforcement agencies and personnel. Special attention to career opportunities and alternatives in the field of law enforcement.

CJ 115 Introduction to Forensic Investigations (3)

This course introduces students to forensic science and is a primer to more advanced courses in the field of forensic science. The history of forensic science is explored, with particular emphasis on forensic investigations, as well as the developing and changing nature of the field. The role that forensic science plays within the American Criminal Justice System is a focus of study. The various technologies used are reviewed as are the limitations of forensic science. Prerequisite: None.

CJ 120 Introduction to Corrections (3)

Contemporary correctional activities and the functions performed by correctional agencies and personnel. Includes an overview of the functions performed by correctional institutions and agencies for juveniles and adults.

CJ 130 Public & Private Security (3)

History and philosophy of security, goals and measures of businesses, security firms, military services, and governmental agencies.

CJ 210 Criminal Law (3)

Review of substantive criminal law theory and specific elements common to index offenses will be presented. Course will offer a brief synopsis of the historical development of penal codes, as well as application of the Model Penal Code. Special emphasis will include a review of established defenses to criminal liability such as the insanity, self-defense and diminished mental capacity defenses.

CJ 220 Criminal Justice Communications (3)

Methods of gathering and reporting information essential to effective criminal justice operations are reviewed, discussed, and practiced. Emphasis is on developing effective interviewing skills and accurate reporting of information gathered by criminal justice practitioners.

CJ 225 Jail Workshop (3)

This course provides the student an overview of the history, functions, design and operation of the American jail.

CJ 230 Principles of Investigation (3)

Gathering information; principles and procedures used for crime scene protection and search; collection and preservation of evidence; interviewing and interrogation of complainants, witnesses, suspects, and victims; and scientific applications to a variety of investigations conducted in criminal justice setting.

CJ 235 Traffic Law & Investigation (3)

Provides a basic introduction to the traffic regulation function in modern society with particular emphasis on the impact on technology, judicial decisions, Federal mandates and societal expectations on the enforcement of traffic laws and the investigation of related violations.

CJ 245 Officer Survival (3)

Comprehensive police officer survival seminar designed for basic and in-service police training. Includes examination of the laws regarding use of force, civil and criminal liability, mental conditioning, post shooting trauma, the dynamics of lethal force and other special topics, including biomedical hazards, dealing with gangs and plainclothes and off-duty officer survival. Strenuous physical activity expected. Advise instructors of any medical condition that would prevent involvement in the training.

CJ 250 Patrol Procedures (3)

Provides a comprehensive study of police patrol procedures, beginning with a historical overview of local policing and moves into current patrol practices. Includes presentations of old training films, as available, to allow students to critique early methods with techniques learned. Includes legal issues and their impact on police methods.

CJ 260 Independent Study (1-3)

Criminal Justice majors may pursue an independent research project approved by faculty in consultation with the Department Chair. Independent Study may not be used in place of any courses required of the criminal justice major. Independent Study courses must meet equivalencies to Federal definition of a credit hour. Prerequisites: 6 hours of CJ course work.

CJ 290 Special Topics (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester for variable credit. Prerequisite: Consent of instructor.

CJ 303 Diversity in American Culture (3)

This course is designed to explore the relationship between culture and the criminal justice system. Emphasis is given to understanding the historical, theoretical, and structural perspectives of racial/ethnic and minority groups in society.

CJ 305 Crime & Justice in Film (3)

The course is intended to survey modern America's attitudes about our criminal justice system through analysis of several motion pictures dealing with various facets of the system.

CJ 310 Police Problems & Practices (3)

Analysis of police functions and problems commonly encountered in the performance of those functions. Problem-solving methods and techniques are reviewed, discussed, and practiced. Prerequisite: CJ 110 or consent of instructor.

CJ 315 Drug Abuse & Criminality (3)

Societal reaction to drug abuse in terms of legal sanctions, treatment alternatives, and the criminal justice response (law enforcement, the courts, corrections). How substance abuse and criminal behavior are interrelated.

CJ 318 Juvenile Justice (3)

This course provides an overview of the American Juvenile Justice System, including theories and measurements of juvenile offending; the roles and relationships of law enforcement, courts, probation and parole, diversion programs, service agencies, and correctional institutions. Prerequisites: CJ 100.

CJ 320 Correctional Treatment Strategies (3)

Treatment strategies employed in adult and juvenile corrections programs, focusing on classification, types of institutional programming, as well as community and aftercare facilities. Prerequisite: CJ 120 or consent of instructor.

CJ 323 Serial Killers (3)

This course will review the methods used by criminal justice agencies to identify and track serial killers, examine various aspects of this particular criminal profile and review the impact of such criminal activity on our society. Case studies of convicted serial killers will be used to demonstrate the various factors that influence the development of this abnormal criminal mind. Prerequisite: None.

CJ 324 Evidenced Based Corrections (3)

This course is designed to explore best practices in corrections that are based on research. Emphasis is given to studying the findings from program evaluations to better understand EBP that have reduced recidivism and enhanced public safety. Prerequisites: CJ 120.

CJ 325 Applied Criminology (3)

Applied criminology will examine various criminological theories including delinquent subculture, differential association, and conflict theories, and their application by criminal justice professionals. In addition, the student will understand and practice the application of criminological theory in dealing with an individual offender.

CJ 330 Judicial Process (3)

Historical development and contemporary structure of state and federal trial courts and courts of appellate review will be presented. Constitutional and statutory authority for courts, court procedure, and defendant rights in the judicial process will be reviewed to include due process, public and speedy trial, jury composition, self-incrimination, punishment and state and federal post-conviction relief and/or appellate review. Other statutory and administrative/regulatory laws will be reviewed pertaining to the Code of Professional Responsibility as it applies to respective judicial officers. Close analysis is offered of the respective roles, duties performed, and career paths for judicial officers such as judges, prosecutors and defense counsel.

CJ 332 Law of Corrections (3)

This course is designed to explore the law of corrections by providing an in-depth examination of the court system with particular focus on prisoners' post-conviction rights. Topics covered include the various sources of correctional law, prisoners' statutory and constitutional rights, potential liability for corrections employees, and other controversial legal issues in corrections. Prerequisites: CJ 120.

CJ 337 Sex Offenders (3)

This course concerns sex offenders, sexual offending behavior and the policy responses of this type of crime. The course will cover "typical" sex offender characteristics, at least as much as the behavior can be typified. It will investigate the nature and procedure of sexual offending behavior. Policy targeted toward preventing or curbing behavior will also be explored. Prerequisite: None.

CJ 340 Crime Prevention (3)

Situational crime prevention, environmental design, physical security measures, defensible space, opportunity theories, crime displacement, rational choice theory, and crime prevention studies. Prerequisite: CJ 130 or consent of instructor.

CJ 342 Capital Punishment in America: The Death Penalty (3)

An overview of capital punishment in America with specific application to Kansas. The course covers different philosophical and religious positions on the death penalty; pro and con arguments related to retribution, deterrence, and incapacitation; the relative costs of the death penalty vs. permanent incarceration; innocent people on death row, discrimination, and arbitrariness in the application of the death penalty; and the role of judges, prosecutors, defense attorneys, juries, and witnesses in death penalty cases. Prerequisite: CJ 100 or consent of instructor.

CJ 345 Homicide (3)

An in-depth examination of homicide investigation and the tools required to bring the case to a successful completion. Prerequisite: CJ 110 or CJ 115, or consent of instructor.

CJ 350 Legal Issues in Security and Safety (3)

Civil and criminal liability of security officers and employers, security laws of arrest/search/seizure, security regulations, security licensing and training, OSHA standards and legal requirements, and case studies. Prerequisite: CJ 130 or consent of instructor.

CJ 352 Firearms Decision Making (3)

Firearms decision making provides students with the opportunity to examine the legal aspects of police use of force incidents. During the course students will learn about firearms and the proper safety, usage and storage of weapons. Each student will be provided the opportunity to use the Firearms Training System (FATS) and the simmunitions weapons system and experience split second decision making in a use of force incident. Finally, student will study the basic preparation for dealing with critical incidents and the aftermath of a shooting incident. An additional fee is associated with this course. Prerequisite: CJ 100 or consent of instructor.

CJ 355 Women in Criminal Justice (3)

An overview of the theories and facts on female criminality, employment practices and on-the-job problems that affect female criminal justice workers, and factors relative to female victims of crime.

CJ 360 Independent Study (1-3)

Criminal Justice majors may pursue an independent research project approved by faculty in consultation with the Department Chair. Independent Study may not be used in place of any courses required of the criminal justice major. Independent Study courses must meet equivalencies to Federal definition of a credit hour. Prerequisites: 6 hours of CJ course work or consent.

CJ 362 Human Trafficking (3)

An advanced undergraduate course that focuses on contemporary human trafficking and slavery. Types of trafficking and slavery to be covered include sex trafficking, bonded labor, forced labor, child soldiers, chattel slavery, and domestic servant slavery. The contributing roles of the state, organized crime, the media, culture, and corruption will be examined. Debates about defining trafficking and the connection between sex trafficking and prostitution will be reviewed. Course materials may include testimonies and autobiographies by survivors, research reports, theoretical essays, policy statements, expert testimonies, podcasts and videos. Prerequisite: Junior Standing or permission of the course instructor.

CJ 364 Homeland Security (3)

This course will provide an introduction and general overview of homeland security in the United States. The course will focus on helping students understand the key elements of homeland security strategies and operational policies. The role and purpose of homeland security strategy will be evaluated in regard to its implementation in a contemporary democratic society. Prerequisite: None.

CJ 365 Police & the Community (3)

Relevant literature and the scope of the problem, psychological and sociological considerations; and viable programs that effectively improve communications between the police and the public. Prerequisite: CJ 110 or consent of instructor.

CJ 367 Firearms and Tool Mark Examination (3)

This course will provide an understanding of the history and scope of firearms and toolmark examination as well as introducing students to basic methods of firearms and tool mark identification and examination. An emphasis will be placed on the use of this type of evidence as a means of facilitating effective crime scene investigations. The theory of firearms and tool mark evidence identification will be discussed as students are able to develop a better understanding of the scientific method and how it is applied to criminal investigations. Prerequisite: CJ 115 or consent of instructor.

CJ 368 Introduction to Bloodstain Pattern Analysis (3)

This is the first of two courses in Bloodstain Pattern Analysis (BPA). Each course will cover different aspects of BPA. In combination, the two courses will meet all the requirements of the International Association of Bloodstain Pattern Analysis (IABPA) Basic BPA Course. BPA is an investigative tool utilized by forensic scientists, crime scene technicians and investigators to identify bloodstain patterns at a crime scene, which may assist in reconstructing events. This course will introduce students to bloodstain pattern identification and analysis. Attention will be focused on how bloodstain analysis can be used to help facilitate criminal investigations. Prerequisite: CJ 115 or consent of instructor.

CJ 369 Advanced Bloodstain Pattern Analysis (3)

This is the second part of two courses in Bloodstain Pattern Analysis (BPA). Each course will cover different aspects of BPA. In combination, the two courses will meet all the requirements of the International Association of Bloodstain Pattern Analysis (IABPA) Basic BPA Course. BPA is an investigative tool utilized by forensic scientists, crime scene technicians and investigators to identify bloodstain patterns at a crime scene, which may assist in reconstructing events. Prerequisite: CJ 368.

CJ 370 Fire Investigation and Prevention (3)

Examines the principles of fire investigation, burn patterns, arson, fraud, industrial and commercial fire prevention, hazard recognition, fire control and suppression methods. Prerequisite: CJ 115 or consent of instructor.

CJ 375 Forensic Psychological and Criminal Profiling (3)

This course introduces students to the diverse ways in which the forensic psychologist participates in the legal system. Particular attention is given to the role of the forensic psychologist in criminal proceedings as it relates to the state of mind of the offender. The course also introduces students to basic theories of criminal profiling and ethical considerations in the use of profiling. Prerequisite: CJ 110 or CJ 115, or consent of instructor.

CJ 380 Terrorism (3)

An exploration of the incidence and threats of terrorism and an investigation of the security and law enforcement measures needed to combat it. Topics such as assassination, kidnapping, hijacking, extortion, sabotage, bomb threats/searches, hostage negotiations, victims' survival, and medical/tactical reaction teams will be discussed as they relate to executive protection and terrorism.

CJ 382 Security Technologies (3)

This course provides an overview of the technologies used by security professionals and criminalists working in public safety. Emphasis is given to methods of assessing public and private security threat and managing security protection in government and industrial agencies, and digital, cyber and protective services. Prerequisites: CJ 130.

CJ 390 Special Topics (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester for variable credit. Prerequisite: Consent of instructor.

CJ 395 Seminar in Metropolitan Criminal Justice (3)

An overview of the functions, interrelations and problems of metropolitan law enforcement, judicial and correctional agencies is provided through lectures, assignments and agency visitations. Usually conducted in the Kansas City metropolitan area over a five-day period. Prerequisite: Consent of instructor.

CJ 400 Criminal Justice Research Methods (3)

This course allows students to learn and demonstrate knowledge of research methodology within the criminal justice system and become acquainted with the range and scope of quantitative and qualitative tools available to the criminal justice researcher. Prerequisite: 12 hours Criminal Justice or consent of instructor.

CJ 401 Criminal Justice Ethics (3)

An advanced exploration of the field of ethics as specifically applied to the criminal justice field. Theoretical ethics will be examined alongside a pragmatic and applied focus on the application of these ethical principles in a contemporary criminal justice professional environment. Prerequisite: None.

CJ 410 Criminal Procedure and Evidence (3)

Advanced analysis of the constitutional statutory foundations of modern criminal procedure will be emphasized, with particular focus on the 4th, 5th, and 6th Amendments. The law of search and seizure, interrogations and confessions, warrants, indictment/information, pretrial suppression and exclusionary rule applications will be presented. Rules pertaining to obtaining, qualifying and admitting evidence will be discussed, to include direct and cross examination, application of the hearsay rule, recognized privileged communications, and common evidentiary objections will be offered in the criminal prosecution/defense perspective.

CJ 415 Advanced Forensic Investigations (3)

Examines the role of forensic science in the investigation and solution of crime. Each type of physical evidence normally encountered in criminal investigation is studied with regard to collection and packaging techniques which maximize evidentiary value, the current types of scientific analyses available, and the significance and limitations of the scientific results. The history of forensic science is also briefly examined. Prerequisite: CJ 115 or consent of instructor.

CJ 416 Forensic Applied Science Laboratory (3)

This skills application course is designed to complement CJ 415 Forensic Investigations in Criminal Justice. Emphasis is given to the application of forensic investigation techniques and practices related to the preservation of evidence and the processing of crime scenes, including: processing latent prints, gathering trace evidence, documenting firearms and toolmarks evidence, and the collection of illicit drugs. Preparations for court testimony and presentation of evidence in court proceedings are covered. This course must be taken the same semester as CJ 415. Prerequisite: CJ 115 or consent of instructor.

CJ 417 Probation, Parole and Community Based Corrections (3-6)

Crime scene investigation internships are created for CSI students to put their classroom-learned skills to real-life applications. Moreover, having an on-the-job training under a crime scene investigation unit will expose you to different specializations of your career choice such as photography skills at crime scenes; this way, you can choose which aspect of a CSI job to concentrate on. This internship requires summative reflection, serving as a culminating experience for Bachelor's degree students. Prerequisites: CJ 115, CJ 415, and Consent of Instructor.

CJ 420 Probation, Parole And Community Based Corrections (3)

Probation and parole, including the administration, procedures, and techniques used in the treatment and supervision of offenders. Also, the history and trends of probation and parole, and professional training in these fields. Prerequisite: CJ 120 or consent of instructor.

CJ 425 White Collar Crime (3)

Occupational crime, fraud, theft, computer crimes, environmental crimes, business and governmental crimes, and prevention measures. Prerequisite: CJ 110 or consent of instructor.

CJ 440 Enforcement Administration (3)**CJ 445 Drug Enforcement Policies and Programs (3)**

The role in establishing alcohol and other drug policy and the development of regulation for the implementation of federal policy. Officials from federal, state, and local agencies describe agency functions and effects at addressing the drug problem. The course will also examine the impact of federal drug policy at the local level. Prerequisite: CJ 110 or consent of instructor.

CJ 455 Criminal Justice Administration (3)

This course provides an overview of the basic functions of criminal justice agency management and administration, including activities such as planning, forecasting, budgeting, organizing, training, evaluating and directing personnel. The special requirements for the administration of criminal justice agencies and facilities such as building public support, communicating results, informing policy decisions, maintaining transparency, and interacting with other criminal justice agencies are explored. Case studies from a variety of criminal justice settings including law enforcement, corrections, and courts are analyzed to enhance understanding of management and administrative complexities. Prerequisite: None.

CJ 465 Criminal Justice Planning (3)

Criminal Justice planning, including analysis of crime data and systems interrelations, forecasting, problem identification, establishing goals and objectives, and developing plans for implementation and evaluation.

CJ 470 Internship in Security (3-6)**CJ 475 Police Experience (3)**

Travel to law enforcement agencies, guest lectures and class discussion. Prerequisite: CJ 110 or consent of instructor.

CJ 485 Internship in Criminal Justice (3-6)

Supervised observation & participation in the functions of a federal, state, or local criminal justice agency. Assignment supervision is received from experienced agency personnel and an orientation to agency operations is provided. Students may participate in specific law enforcement, corrections, forensic investigation, and/or security administration activities. The criminal justice internship may be taken in one semester or over the course of two semesters. Experience may be concentrated in one agency or divided among more than one agency. Placement and continuation in the internship requires approval of the criminal justice agency where the student completes their internship experience. This internship requires summative reflection and serves as a culminating experience for criminal justice students. Prerequisite: Permission of the course instructor.

CJ 495 Correctional Experience (3)

Impact course designed to provide the student with the opportunity to "experience" the correctional institution and draw a unique insight into corrections. Students visit correctional institutions, observe their operations, and interact with correction practitioners and confined offenders. Institutions have been chosen for visitation to provide the student with as broad a correctional experience as possible, beginning with juveniles through adults, including county, state, and federal institutions. Prerequisite: CJ 120 or consent of instructor.

CJ 499 International Travel Experience in Criminal Justice (1-3)

This course will provide students with an opportunity to earn course credit for participation in educational travel opportunities. These opportunities will incorporate elements of both travel and education, providing students with an applied opportunity to learn as they explore different locations. Prerequisite: Permission of the course instructor.

Criminal Justice, AA

The Associate of Arts degree in Criminal Justice requires completion of 60 credit hours. Students earning an AA in Criminal Justice must earn a grade of "C" or better in all required criminal justice courses, including the required correlate course. The program provides students with the knowledge and technical skills required to pursue a wide variety of entry-level criminal justice positions, including law enforcement, adult and juvenile corrections, and private sector security.

Degree Requirements

Code	Title	Hours
Required Courses		
CJ 100	Crime & Justice in America	3
CJ 110	Introduction to Law Enforcement	3
CJ 120	Introduction to Corrections	3
CJ 130	Public & Private Security	3
CJ 220	Criminal Justice Communications	3
CJ 230	Principles of Investigation	3
CJ 303	Diversity in American Culture	3
CJ 325	Applied Criminology	3
Criminal Justice Electives		9
Required Correlate Course		
LG 345	Criminal Law	3
Total Hours		36

Criminal Justice, Minor

Minor Requirements

Non-Criminal Justice majors may minor in criminal justice. A criminal justice minor must include a minimum of fifteen credit hours in criminal justice, not less than six of which must be 300 level or above.

Corrections, BCJ

The Corrections major is designed to provide an academic and experiential learning environment that will prepare students for employment in federal, state, and local corrections agencies. Consequently, the curriculum addresses the nature of both institutional and field service corrections. The degree includes a participatory observation internship, which is intended to promote the development of knowledge and skills for correctional practice while providing opportunity for professional networking, fostering professional socialization, and personal growth. Students enrolling in this specialized internship are presumed to be committed to entering the field of Corrections.

The program content is designed to provide a broad, comprehensive introduction to the theoretical as well as practical aspects of criminal justice, with greatest emphasis being placed on the correctional function. This program is designed for both personnel already employed in criminal justice and pre-service students interested in criminal justice careers.

Additional Student Outcomes

In addition to the core criminal justice program student learning outcomes, students who graduate with a corrections major are expected to be able to:

- Identify and describe key historical developments in the growth of institutional and community corrections in the U.S. and how those past developments inform current policy and practice.
- Apply concepts, theory, or evidence-based practices to make informed decisions affecting the workplace and the field of corrections.

Degree Requirements

Code	Title	Hours
Major Requirements		
CJ 100	Crime & Justice in America	3
CJ 120	Introduction to Corrections	3
CJ 220	Criminal Justice Communications	3
CJ 303	Diversity in American Culture	3
CJ 318	Juvenile Justice	3
CJ 320	Correctional Treatment Strategies	3
CJ 324	Evidenced Based Corrections	3
CJ 325	Applied Criminology	3
CJ 400	Criminal Justice Research Methods	3
CJ 420	Probation, Parole And Community Based Corrections	3
CJ 455	Criminal Justice Administration	3
CJ 485	Internship in Criminal Justice	6
CJ Electives		12
Subtotal		51
Correlate Course		
LG 345	Criminal Law	3
Subtotal		3
Total Hours		54

Students majoring in Criminal Justice must earn a grade of "C" or better in all required criminal justice courses for credit, including required correlate courses. A minor is required for the BCJ degree (consult with your academic advisor).

Forensic Investigations, BCJ

The Forensic Investigations major is designed to provide students a balanced interdisciplinary education, emphasizing the practical issues and theoretical concepts employed by forensic professionals. Students will receive specialized training in crime scene investigations at the Kansas Bureau of Investigation's Crime Laboratory. This major's global approach to understanding forensics role in law enforcement will prepare students for careers in local, state, and federal law enforcement. This program is also designed for professionals already employed in the criminal justice field as well as pre-service students interested in the career.

Additional Student Outcomes

In addition to the core criminal justice program student learning outcomes, students who graduate with a forensic investigation major are expected to be able to:

- Demonstrate the ability to use forensic investigation techniques to collect, document, and process evidence.
- Effectively testify as an expert witness in a criminal trial.
- Apply forensic pathology principles to death investigations.

Degree Requirements

Code	Title	Hours
Major Requirements		
CJ 100	Crime & Justice in America	3
CJ 115	Introduction to Forensic Investigations	3

CJ 220	Criminal Justice Communications	3
CJ 230	Principles of Investigation	3
CJ 303	Diversity in American Culture	3
CJ 325	Applied Criminology	3
CJ 345	Homicide	3
CJ 400	Criminal Justice Research Methods	3
CJ 410	Criminal Procedure and Evidence	3
CJ 415	Advanced Forensic Investigations	3
CJ 416	Forensic Applied Science Laboratory	3
CJ 485	Internship in Criminal Justice	6
Select 12 hours from the following approved electives: ¹		12
CJ 290/ CM 203	Special Topics (Digital Forensics I)	
CJ 323	Serial Killers	
CJ 370	Fire Investigation and Prevention	
CJ 375	Forensic Psychological and Criminal Profiling	
CJ 390/ CM 303	Special Topics (Digital Forensics II)	
CJ 367	Firearms and Tool Mark Examination	
CJ 368	Introduction to Bloodstain Pattern Analysis	
CJ 369	Advanced Bloodstain Pattern Analysis	
Subtotal		51
Approved Correlate Courses		
Select nine hours from the following:		9
AN 116	Biological Anthropology	
AN 316	Forensic Anthropology and Laboratory	
BI 102	General Cellular Biology (with lab)	
BI 140	Introduction to Forensic Biology	
CH 103	Introduction to Forensic Chemistry	
CH 202	Professional Forensic Science Seminar	
LG 345	Criminal Law	
Subtotal		9
Total Hours		60

¹ Other program-relevant courses may be selected in consultation with a department advisor.

Law Enforcement, BCJ

The Law Enforcement major is designed to provide a balanced introduction to all aspects of the criminal justice process with particular emphasis on the theoretical and practical aspects of law enforcement. The program is interdisciplinary in content, utilizing courses in the social sciences as well as those more directly related to functions and programs in the criminal justice system. This program is designed for both personnel already employed in criminal justice and pre-service students interested in criminal justice careers.

Additional Student Outcomes

In addition to the core criminal justice program student learning outcomes, students who graduate with a law enforcement major are expected to be able to:

- Demonstrate the ability to critically evaluate the role and purpose of the law enforcement profession in contemporary American society.

- Identify and describe key historical developments in the growth and maturation of organized systems of policing internationally and in the United States.
- Compare and contrast how the law enforcement function is related to the functions of the other branches of the American criminal justice system.

Degree Requirements

Code	Title	Hours
Major Requirements		
CJ 100	Crime & Justice in America	3
CJ 110	Introduction to Law Enforcement	3
CJ 220	Criminal Justice Communications	3
CJ 230	Principles of Investigation	3
CJ 303	Diversity in American Culture	3
CJ 310	Police Problems & Practices	3
CJ 318	Juvenile Justice	3
CJ 325	Applied Criminology	3
CJ 400	Criminal Justice Research Methods	3
CJ 410	Criminal Procedure and Evidence	3
CJ 455	Criminal Justice Administration	3
CJ 485	Internship in Criminal Justice	6
Criminal Justice Electives		12
Subtotal		51
Correlate Course		
LG 345	Criminal Law	3
Subtotal		3
Total Hours		54

Security Administration, BCJ

The Security Administration major is interdisciplinary in nature, emphasizing practical issues and theoretical concepts related to security, safety, fire, crime prevention, investigations, law enforcement and the social sciences. This program is designed to prepare students for professional and managerial employment in security, investigations, loss prevention, and risk management positions in business, industry, government agencies and non-profit organizations. This program is designed for both personnel already employed in criminal justice and pre-service students interested in careers in security.

Additional Student Outcomes

In addition to the core criminal justice program student learning outcomes, students who graduate with a security administration major are expected to be able to:

- Analyze crime control and prevention theories that are relevant to the security administration industry.
- Identify and describe key historical developments in security administration in the U.S. and how current policy and practice is informed by those developments.
- Demonstrate critical thinking and problem solving skills to adapt to the needs of the security administration industry.

Degree Requirements

Code	Title	Hours
Major Requirements		
CJ 100	Crime & Justice in America	3
CJ 130	Public & Private Security	3
CJ 220	Criminal Justice Communications	3
CJ 303	Diversity in American Culture	3
CJ 325	Applied Criminology	3
CJ 340	Crime Prevention	3
CJ 382	Security Technologies	3
CJ 400	Criminal Justice Research Methods	3
CJ 425	White Collar Crime	3
CJ 364	Homeland Security	3
CJ 455	Criminal Justice Administration	3
CJ 485	Internship in Criminal Justice	6
CJ Electives		12
Subtotal		51
Correlate Course		
LG 345	Criminal Law	3
Subtotal		3
Total Hours		54

Legal Studies

Legal Studies Mission Statement

The Legal Studies program prepares students for successfully gaining employment in the legal profession as paralegals, legal assistants, or related positions. The program also serves to prepare students for continuing on to law school or seeking other advanced degrees. Students gain confidence, knowledge, and practical experience to succeed in the legal field, while understanding and respecting ethical obligations.

Legal Studies Student Learning Outcomes

Legal Studies students at Washburn University, upon graduation, will be able to:

- Demonstrate proficiency in legal research and writing.
- Use critical thinking skills to analyze and apply case law and statutory law.
- Understand litigation procedures and legal terminology.
- Apply general communication and interpersonal skills in a legal setting.
- Evaluate legal scenarios and identify applicable professional rules of ethics.

Programs

- Legal Studies, BLS (p. 254)
- Legal Studies, AA (p. 255)
- Legal Studies, Minor (p. 255)
- Legal Studies, Certificate (p. 255)
- Legal Studies Program Options with Washburn Institute of Technology (p. 256)

Course Offerings

LG 101 Introduction to Legal Practice (3)

Introduction to basic legal terminology and legal principles, as well as hands on experience with computer technology applicable to law office management, document production, scheduling, research, litigation support, and ethics. Prerequisite: None.

LG 200 Introduction to Law (3)

Introduction to the basic skills of legal analysis and case briefing, understanding the state and federal legal systems, and judicial decision-making. The course will also include a survey of torts, contracts, criminal law, and property law. Prerequisite: None.

LG 205 Corporate Law (3)

A study of business organizations and the tasks a paralegal would be required to perform in setting up and maintaining those organizations. Topics covered include: law of agency, partnership, limited partnership and corporations. Prerequisite: LG 101 or LG 200 or consent.

LG 210 Family Law (3)

Family law issues are the focus of this course, including the law of divorce, annulment and separate maintenance actions. The gathering of information and preparation of pleadings are undertaken. Adoption and custody procedures are reviewed. Prerequisite: LG 101 or LG 200 or consent.

LG 215 Property Law (3)

Procedural and substantive principles of real and personal property laws. Preparation of documents for common real estate transactions, including deeds, contracts, and mortgages. Personal property topics will include bailments, possession, accession and gifts. Prerequisite: LG 101 or LG 200 or consent.

LG 220 Wills & Estate Administration (3)

Involves probating a will or administering an estate; assembling information necessary for collection and evaluating assets; maintaining proper records for accounting purposes; preparing pleadings for initial petition and appointment of an administrator and executor; sale, mortgage, and lease of assets; and preparing estate tax returns, wills and trusts. Intestate succession and tax implications are studied. Prerequisite: LG 101 or LG 200 or consent.

LG 240 Constitutional Law (3)

This course explores the basic structure of the Constitution, the powers it grants to the federal government, and the basic rights and protections it provides to individuals. Students will analyze and think critically about United States Supreme Court opinions on such topics as rights against discrimination, privacy rights, rights to the freedom of speech and religion, due process rights, and the right to bear arms. Prerequisite: None.

LG 250 Legal Research I (3)

Introduction to primary and secondary authorities, including court decisions, legislation, annotations, digests, legal periodicals and specialty texts and reports. Practical research projects, including legal writing. Prerequisite: LG 101 or LG 200 or consent.

LG 300 Legal Writing (3)

The various forms of legal writing are the focus of this course, including letters, memoranda, motions, and briefs. Students will learn further research techniques, including an introduction to computerized legal research. Practical writing projects are included. Prerequisite: LG 250 or consent.

LG 305 Litigation I (3)

Analysis of the steps and procedures in preparing for litigation. Course topics include a detailed study of the preparation and use of discovery devices, the drafting of pleadings and motions, and a detailed analysis of the steps involved in trial preparation and procedure. Prerequisite: LG 101 or LG 200 or consent.

LG 310 Interviewing & Investigation (3)

Study of basic interviewing techniques in various legal settings. Mock interviews of clients and witnesses. Various styles of interviewing covered, as well as question-asking and listening techniques. Factual and legal investigation theories, plans and techniques will be used. Ethical concerns related to interviewing witnesses and clients covered. Rules of evidence are reviewed. Prerequisite: LG 101 or LG 200 or consent.

LG 315 Legal Research II (3)

This course is designed to teach students further research techniques, including the research of legislative history and administrative law, both through library research and computer-assisted legal research. Prerequisite: LG 250 or consent.

LG 320 Elder Law (3)

Introduction to laws that affect the elderly population. Study of course topics will include estate planning, guardianship and conservatorship, patients' rights, entitlement programs, managed care, social security, Medicare, Medicaid, and elder abuse. Prerequisite: LG 101 or LG 200 or consent.

LG 325 Personal Injury Law (3)

Introduction to basic concepts in tort law, including elements of various tort claims, defenses, privileges, and immunities. Prerequisite: LG 101 or LG 200 or consent.

LG 330 Administrative Law for Paralegals (3)

An introduction to administrative law concepts. Topics covered in the course will include, but not be limited to: delegation of authority to administrative agencies; limitations on agencies' authority; due process of law in the administrative arena; informal versus formal agency actions; rule-making; FOIA; the Privacy Act; open meetings; adjudicative functions of agencies; Administrative Procedures Act; and judicial review. Practical application of the concepts studied will occur through the completion of exercises and drafting assignments. Prerequisite: LG 101 or LG 200 or consent.

LG 340 Law and the Cinema (3)

This course uses movies in the study of law and legal principles. By watching law-based films and reading related journal articles, we will discuss and analyze rules of civil and criminal procedure, rules of evidence, and rules of ethics. In addition, the broader legal and moral issues raised by the films will be discussed and studied. This course will also allow students to develop a heightened awareness of how depictions in popular culture can affect a society's understanding and discourse concerning issues surrounding the law. Prerequisite: None.

LG 342 Capital Punishment in America (3)

An overview of capital punishment in America with specific application to Kansas. The course covers different philosophical and religious positions on the death penalty; pro and con arguments related to retribution, deterrence, and incapacitation; the relative costs of the death penalty vs. permanent incarceration; innocent people on death row, discrimination, and arbitrariness in the application of the death penalty; and the role of judges, prosecutors, defense attorneys, juries, and witnesses in death penalty cases. Prerequisite: LG 101 or LG 200 or CJ 100 or consent.

LG 345 Criminal Law (3)

Introduction to substantive criminal law and criminal procedure for the paralegal. Topics covered include elements of crimes against persons and property; burden of proof; defenses and constitutional protection; comparison of Kansas law with common law, federal law, and selected other states. Prerequisite: LG 101 or LG 200 or CJ 100 or consent.

LG 350 Professional Ethics (3)

An overview of the Kansas Rules of Professional Conduct, which govern the practice of law in Kansas. Subjects covered include: ethics in the law office, unauthorized practice of law, advertising of legal services, contact with parties who are represented by counsel, impaired, lawyers, competency, professionalism, and fees for paralegal work. Complaints, disciplinary proceedings, and possible sanctions are covered. The role of the Kansas Supreme Court and the duties of attorneys under the rules are studied. Prerequisite: LG 101 or LG 200 or consent.

LG 355 Introduction to Contracts (3)

Overview of contract law in relation to the formation of contracts, the Statute of Frauds, third-party beneficiary contracts, assignment of rights and delegation of duties, liability for breach of contract, termination, discharge and other related issues. Practical drafting projects are included. Prerequisite: LG 101 or LG 200 or consent.

LG 360 Independent Study (1-3)

Legal Studies students pursuing the Bachelor of Legal Studies degree may enroll in an independent research project if approved by faculty in consultation with the Department Chair. Independent Study courses must meet equivalencies to Federal definition of a credit hour. Prerequisites: 6 hours of LG course work.

LG 390 Special Topics/Legal Asst (1-3)

Selected topics which vary from semester to semester. Announced in advance. Prerequisite: Specified on each topic.

LG 399 International Travel Experience in Legal Studies (3)

This course allows students from Washburn University to work collaboratively with the students from a partnering university outside the United States. Students will participate in a comparative analysis of international differences in law, the legal system, and litigation practices; and develop a better understanding of the cross-cultural significance of diversity in the legal system. Prerequisite: Consent.

LG 405 Litigation II (3)

Analysis of the steps involved in criminal procedure. Constitutional principles and limitations will be studied. Appropriate pleadings will be drafted relating to the various stages of a criminal trial. Advanced civil litigation topics will also be studied, such as class actions, complex litigation, and various settlement devices, including alternative dispute resolution modalities. Students will research and complete a comparative study of the criminal and civil litigation systems. Prerequisite: LG 305.

LG 410 Bankruptcy & Collections (3)

Acquaints students with the legal foundations for methods commonly used to collect delinquent accounts, as well as the terminology of bankruptcy practice, and the statutory framework of and proceedings under, the Bankruptcy Act. Prerequisite: LG 101 or LG 200, and LG 250 or consent

LG 450 Internship (2-3)

Special placement of a student in a law firm, agency, or other legal setting using paralegals. Specific learning objectives established for each placement. Internship consists of a minimum of 160 clock-hours of experience under the supervision of a practicing attorney or paralegal and university faculty, performing tasks appropriate to a paralegal in a professional setting. Pass/Fail only. This internship requires summative reflection, serving as a culminating experience for Bachelor's degree students. Prerequisite: Students must apply with the program director and be given consent to enroll.

LG 495 Legal Studies BLS Capstone (3)

Students who have completed all of their major course work (or who are concurrently enrolled in their final semester and completing their major course work) may enroll in the capstone course with the consent of the program director. Students will complete a self-assessment by completion of a portfolio, using the core competencies for the profession to determine if remedial work needs to be done in any area before graduation. In addition, students may participate in resume-writing, job interviewing skills and networking. Mock interviews may be scheduled for each student. Students will attend two different paralegal organization meetings and two court sessions. Report writing will be included. Ethics will be emphasized by the use of hypothetical situations which will be analyzed and discussed. Students must participate in at least one pro bono activity (i.e., serve as a witness or juror in mock trial or client counseling competitions at the law school or high schools; assist at the Washburn University Law Clinic; assist a not-for-profit organization in the provision of legal services and assistance to low-income individuals and/or children; or, any other approved volunteer effort). This Capstone requires summative reflection, serving as a culminating experience for Bachelor's degree students. Prerequisite: Consent

Legal Studies, BLS

Degree Requirements

Code	Title	Hours
Major Courses		
LG 101	Introduction to Legal Practice	3
LG 200	Introduction to Law	3
LG 240	Constitutional Law	3
LG 250	Legal Research I	3
LG 300	Legal Writing	3
LG 305	Litigation I	3
LG 310	Interviewing & Investigation	3
LG 405	Litigation II	3
LG 450	Internship	2-3
LG 495	Legal Studies BLS Capstone	3
Subtotal		29-30
Electives		
Elective credits (p. 255)		21
Subtotal		21
Foundation Courses		
Select 18 credits from the following Legal Studies Correlates:		18
AC 224	Financial Accounting	
BU 101	Introduction to Business	
CM 101	Computer Concepts and Applications	
CJ 318	Juvenile Justice	

CJ 303	Diversity in American Culture	
CJ 330	Judicial Process	
CJ 342	Capital Punishment in America: The Death Penalty	
CJ 410	Criminal Procedure and Evidence	
HS 240	Introduction to Intellectual Disabilities	
HS 301	Working with Trauma	
HS 316	Addictions Treatment	
MM 300	Media Law, Ethics & Diversity	
PH 220	Symbolic Logic	
PH 315	Philosophy of Law	
PO 106	The Government of the United States	
PO 107	Kansas and the U.S., State and Local Government	
TA 310	Technology & Society	

Subtotal 18

Unrestricted Electives

Unrestricted elective credits 12

Subtotal 12

Total Hours 80-81

Electives

Code	Title	Hours
LG 205	Corporate Law	3
LG 210	Family Law	3
LG 215	Property Law	3
LG 220	Wills & Estate Administration	3
LG 315	Legal Research II	3
LG 320	Elder Law	3
LG 325	Personal Injury Law	3
LG 330	Administrative Law for Paralegals	3
LG 340	Law and the Cinema	3
LG 342	Capital Punishment in America	3
LG 345	Criminal Law	3
LG 350	Professional Ethics	3
LG 355	Introduction to Contracts	3
LG 390	Special Topics/Legal Asst	1-3
LG 399	International Travel Experience in Legal Studies	3
LG 410	Bankruptcy & Collections	3

Legal Studies, AA

Degree Requirements

Code	Title	Hours
Major Courses		
LG 101	Introduction to Legal Practice	3
LG 200	Introduction to Law	3
LG 240	Constitutional Law	3
LG 250	Legal Research I	3
LG 300	Legal Writing	3
LG 305	Litigation I	3
LG 310	Interviewing & Investigation	3

Select 15 credits from the following: 15

LG 205	Corporate Law	
LG 210	Family Law	
LG 215	Property Law	
LG 220	Wills & Estate Administration	
LG 315	Legal Research II	
LG 320	Elder Law	
LG 325	Personal Injury Law	
LG 330	Administrative Law for Paralegals	
LG 340	Law and the Cinema	
LG 342	Capital Punishment in America	
LG 345	Criminal Law	
LG 350	Professional Ethics	
LG 355	Introduction to Contracts	
LG 390	Special Topics/Legal Asst	
LG 405	Litigation II	
LG 410	Bankruptcy & Collections	
LG 450	Internship	

Subtotal 36

Correlate Courses

Select three credits from the following: 3

CJ 410	Criminal Procedure and Evidence	
EN 208	Professional Writing	
PO 106	The Government of the United States	

Subtotal 3

Total Hours 39

Legal Studies, Minor

Minor Requirements

The Minor shall include a minimum of fifteen (15) hours of coursework in Legal Studies, consisting of six (6) hours of lower division and nine (9) hours of upper division. Students must earn a grade of "C" or better in all minor courses.

Legal Studies, Certificate

Certificate Requirements

The Certificate of Completion in the Legal Studies Program is available to those students who have already completed an associate, bachelor or graduate-level degree. Students must earn a "C" or higher in all classes taken for completion of the LG certificate.

Code	Title	Hours
Core		
EN 208	Professional Writing	
LG 101	Introduction to Legal Practice	
LG 200	Introduction to Law	
LG 240	Constitutional Law	
LG 250	Legal Research I	
LG 300	Legal Writing	
LG 305	Litigation I	
LG 310	Interviewing & Investigation	

Select 12 credits from the following: 12

LG 205	Corporate Law
LG 210	Family Law
LG 215	Property Law
LG 220	Wills & Estate Administration
LG 315	Legal Research II
LG 320	Elder Law
LG 325	Personal Injury Law
LG 330	Administrative Law for Paralegals
LG 342	Capital Punishment in America
LG 345	Criminal Law
LG 350	Professional Ethics
LG 355	Introduction to Contracts
LG 390	Special Topics/Legal Asst
LG 405	Litigation II
LG 410	Bankruptcy & Collections
LG 450	Internship
Total Hours	36

All certificate courses may be applied to the Legal Studies Associate of Arts degree.

Legal Studies Program Options with Washburn Institute of Technology

Washburn University and Washburn Tech offer an Associate of Arts degree in the Legal Studies Program. Students who have completed the certificate in the Legal Office Professional Program at Washburn Tech will receive 48 hours of college credit toward the AA degree. At Washburn, students must also complete University Requirements, General Education courses and legal studies program courses to receive an Associate of Arts degree.

To complete the degree, Washburn Tech graduates must complete the following courses at Washburn:

1. Major Courses (15 hours)

Code	Title	Hours
LG 101	Introduction to Legal Practice	3
LG 200	Introduction to Law	3
LG 250	Legal Research I	3
LG 305	Litigation I	3
LG 310	Interviewing & Investigation	3

2. University & General Education courses

For a suggested curriculum please see your advisor.

www.washburn.edu/sas (<http://www.washburn.edu/sas/>)

Military & Homeland Security Studies, Minor

Military & Homeland Security Studies, Minor

Military & Homeland Security Studies offers the student a Minor, with emphasis in homeland security. The minor requires 15 credit hours

of which not less than 6 must be upper division. Subject to approval by the department chair, students may elect to include up to 6 credit hours of military history or international policy courses from the related disciplines of History and Political Science. Students minoring in Military & Homeland Security Studies must earn a grade of "C" or better in all courses taken to satisfy the minor requirement.

Mission

The Military and Homeland Security Studies Program at Washburn University offers students the unique opportunity to pursue a minor degree that emphasizes homeland security issues, counterintelligence, international conflict, national security policy, and strategic planning and leadership

Student Learning Outcomes

Military & Homeland Security Studies students at Washburn University, upon graduation, are expected to:

- Explain the structure and doctrines of the armed forces.
- Describe contemporary practices in Homeland Security.
- Analyze a wide range of national security issues.
- Integrate the fundamentals of military planning, organization, and leadership being utilized in today's armed forces.

Course Offerings

MS 100 Introduction to Military Studies (3)

This course explores the use of the armed forces as an instrument of national power. Students will develop an understanding of the doctrinal principles of war, fundamentals of the offense and defense, just war doctrine, rules of engagement, and how nations organize and execute military operations in pursuit of national objectives and vital interests. The course also examines the doctrine of Military Operations Other Than War (MOOTW), focusing on the use of the military during peacetime. Historical case studies and examinations of current events are presented as they relate to the course objectives.

MS 110 Fundamentals of Military Leadership (3)

This course is oriented toward the college graduate entering the workforce in any profession. Fundamental leadership principles developed by the United States military and Department of Defense are presented, including leadership traits, principles, styles, values, and disciplinary strategies. Foundation for the course begins with individual self-evaluation, including the Myers-Briggs Type Indicator and other personal tendency tests, and progresses through selected group dynamics exercises, and in-depth case study analyses of historically effective leadership examples. The primary focus of the course causes students to become familiar with individual preferences and personality traits in order to form an effective personal leadership style.

MS 120 History of The American Military (3)

Historical presentation of the evolution of the American military from colonial period through the present. A survey of those aspects of organization, training and employment of military forces developed over time—either created in response to particular need or borrowed from other international military examples—and presented as a means of providing foundation for an evolving military legacy.

MS 210 A Soldier's Story (3)

A view of warfare from the bottom up, using the individual soldier's perspective as a means of de-emphasizing national strategy in favor of the social, psychological and emotional impact experienced by those engaged in close armed combat. Individual experiences reported from news accounts, personal diaries, journals, letters, and autobiographies are used as the primary source materials for the course.

MS 215 America at War (3)

Exploration of United States participation in the major wars experienced through its history, with special emphasis on the World Wars. Presentation is made on a broad perspective, to include national interests, mobilization of the home front, and the effect of wars on American society, economy and government.

MS 301 Great Battle Campaigns (3)

Examines the conduct of war through in-depth analysis of a particular battle or campaign shown to be pivotal to the prosecution of a war. Students are allowed to select the battle/campaign of their choice, with advisement, and proceed with customized research. Prerequisite: Undergraduate-junior standing or permission.

MS 320 National Security Policy (3)

Study of the institutions, actors and processes that formulate and execute national security policy in the United States. Traces the historical and contemporary roles of governmental branches, administrative agencies, civilian consultants and contractors, and non-governmental organizations in the development and implementation of policy. Also incorporates the development of intelligence analysis in the formulation of policy, to include the evolution of intelligence assets.

MS 322 Terrorism (3)

Course provides an overview of terrorism with emphasis on assisting students to understand foreign and domestic terrorism and counter-terrorism efforts. Prerequisite: None.

MS 330 International Conflict (3)

Examination of contemporary international conflict. Issues addressed include the evolution of warfare within and between nation states, the interplay between conflict and international diplomacy, economic interdependence, and foundational conflict theory.

MS 335 Elite Forces and Special Operations (3)

This course examines the history, organization, and functioning of modern elite military forces. Analyzes the counter-terrorist forces of the United States and other countries, including the U.S. Army Rangers and Special Forces, Navy Sea-Air-Land (SEALs), Air Force Task Force 160 (Night Stalkers), and Marine Corps Reconnaissance (RECON) units. Also exposes students to foreign elite military forces, to include the British Special Air Service (SAS) and Special Boat Squadron (SBS), French Foreign Legion, Israeli Sayeret (Reconnaissance) units. Uses historical case studies illustrating the use of elite forces in special operations, and follows current special operations in the war on terror.

MS 336 Hollywood Goes to War (3)

Examines of the dual role of filmmakers, the cinema, and the motion picture industry to both entertain and inform. Special emphasis placed on how cinematography can shape popular perceptions and attitudes about warfare in general, as well as particular conflicts. Course makes extensive use of film library materials in making thoughtful analysis.

MS 352 Homeland Security (3)

This course will provide an introduction and general overview of homeland security in the United States. The course will focus on helping students understand the key elements of homeland security strategies and operational policies. The role and purpose of homeland security strategy will be evaluated in regard to its implementation in a contemporary democratic society. Prerequisite: None.

MS 360 Independent Study (1-3)

A research project of extensive reading in aspects of the disciplines or engagement in a field experience. May be carried on in absentia. Students are required to prepare and gain approval of the department chair (Criminal Justice) and the supervising professor of a comprehensive learning contract. Students must complete a project prospective that is approved by supervising professor prior to enrollment. Prerequisite: Consent of the Department Chair.

MS 390 Special Topics (1-3)

Course titles and topics will vary from semester to semester, and will present current trends of interest in the organization, equipment, training, and employment of military forces. May be taken more than once under different topical areas, and may be offered for variable credit depending upon the scope, amount of material, or course length.

MS 400 Strategic Leadership (3)

Analysis and assessment of skills, knowledge, attributes, and competencies of senior and strategic leaders. Examines the characteristics, values and responsibilities of military and civilian professionals. Provides and appreciation of leadership characteristics of historical figures.

MS 420 Combat Journalism (3)

Explores war reporting by the media in both historical and political contexts, and demonstrates the balance between open, fair reporting and the security required for military operations. Also presents the role of news accounts in shaping popular opinion. Prerequisite: Undergraduate-junior standing or permission.

MS 425 Military Justice and The Law of War (3)

Traces the development of modern international rules pertaining to the conduct of war, and presents the various treaties and conventions that govern the conduct of military operations. Course comprises a serious literature review within the context of actual war crime investigations and trials to present the geopolitical consequences of war conduct. Prerequisite: Undergraduate-junior standing or permission.

MS 432 Hitler, WWII, and Holocaust (3)

Course is designed to provide in-depth overview of the rise of National Socialism in Germany and subsequent 13 year Third Reich. A component of the course gives emphasis to WWII, changes in the face of Eastern and Western Europe, and evaluating Hitler as a military leader. Prerequisite: None.

MS 450 Military Intelligence (3)

Comprehensive analysis of military intelligence operations from tactical to strategic. Studies aspects of collection, analysis and dissemination of intelligence information, to include the use of national intelligence assets and strategic planning. Prerequisite: Undergraduate-junior standing or permission.

MS 462 Military Operations/Tactics (3)

Course provides doctrine that frames counterinsurgency within the context of the range of military operations. A major component of the course is dedicated to understanding how commanders synchronize their efforts to achieve end states. Also, overview of Army and Marine Corps military tactics. Prerequisite: None.

MS 470 Insurgency & Guerilla War (3)

Overview of insurgent campaigns and guerilla warfare throughout history. Emphasis on popular political movements, opposition to recognized and existing governments, and transition of guerilla leadership into legitimate government. Presents topical coverage of significant historical examples of both successes and failures in revolution and revolt. Prerequisite: Undergraduate-junior standing or permission.

MS 475 Directed Readings (1-3)

Students pursuing the minor in Military Studies may enroll in an independent research project if approved by faculty in consultation with the Department Chair. Independent Study courses must meet equivalencies to Federal definition of a credit hour. Prerequisites: 3 hours of MS course work.

MS 480 Military Operations Other Than War (3)

Explores the emerging role of military forces in non-standard missions such as peacekeeping, humanitarian relief, non-combatant evacuation operations, and support to host nation military training. Also examines the relationship between and cooperation with non-governmental agencies and organizations through the use of case studies.

MS 490 Special Topics (1-3)

Topics vary each semester & are announced in advance. May be taken for more than one semester for variable credit.

Family and Human Services Department

Website: www.washburn.edu/human-services (<https://www.washburn.edu/human-services/>)

Faculty

Deborah Altus, PhD, Professor, Coordinator Interdisciplinary Gerontology Minor

Jessica Cless, PhD, Assistant Professor, Master's Degree Coordinator

Stacy Conner, PhD, Assistant Professor, BAS Coordinator

Rick Ellis, PhD, Professor (Director of LinC)

Justin Spiehs, PhD, Assistant Professor

Kayla Waters, PhD, Professor, Department Chair

Zenova Williams, PhD, Assistant Professor

Patty Robert, Senior Administrative Assistant

Mission

The mission of the Family and Human Services Department is for students to attain the attitudes, skills, and knowledge to become effective, ethical, and compassionate helping professionals who engage in creative approaches to meet diverse individual, family, community, and societal needs.

Program Description

The Family and Human Services department prepares students for careers in a variety of helping professions, including addictions counseling and family life education (see program approvals below) as it relates to the areas of youth services, trauma and recovery services, gerontology/aging, mental health, disability services, and homelessness/poverty. At the Bachelor's level students may choose from two tracks, addiction counseling or family services, both of which prepare them for licensing or certification. The Department also offers certificates in Addiction Counseling, Trauma and Recovery, and Non-Profit Management,

all of which require a prior or concurrent Bachelor's degree. Students can choose online or on-campus coursework (or both).

Program Approvals and Licensure/Certification Eligibility

The addiction counseling program is approved by the Kansas Behavioral Sciences Regulatory Board (BSRB) and the Association for Addiction Professionals (NAADAC). The program provides the educational curriculum for becoming Licensed Addiction Counselors (LAC), Licensed Master Addiction Counselors (LMAC) and Licensed Clinical Addiction Counselors (LCAC) in Kansas. The program is also approved by the Kansas Department of Aging and Disability Services (KDADS) to provide the educational curriculum for becoming certified as a Person Centered Case Manager (PCCM) in Kansas. KDADS and BSRB have additional post-degree eligibility requirements. In addition, application for licensing and certification may require a criminal background check and other personal information. Students should contact the licensing approval body for specific eligibility information.

Students seeking addiction licensing/certification in other states may be able to meet requirements through Washburn's program. Please contact your state licensing board for eligibility requirements.

Students who complete the family services track at the Bachelor's level will fulfill the educational requirements to apply for the Certification in Family Life Education through the National Council on Family Relations within up to two years of graduation.

Student Learning Outcomes

Upon graduation, Family and Human Services students should be able to:

- Describe the historical development and scope of the field.
- Explain the foundational values of the field, including the promotion of strengths, diversity, social justice, and integrative wellness.
- Demonstrate effective prevention, intervention, and evaluation skills for working with individuals, families and other stakeholders.
- Display effective interpersonal and professional skills appropriate to the field.
- Adhere to professional ethical standards.

Internship Requirements

Students must apply for admission to the Family and Human Services Internship Program and must submit two reference statements. In addition, they must apply for each subsequent internship. If accepted by the Department for an internship, students will still have to be accepted by an approved placement agency. Some agencies may require criminal background checks or other personal information. All agencies have full discretion to accept or reject applicants. Progress in the Family and Human Services curriculum will be curtailed if student(s) are not accepted into the internship program or if they are unable to secure a placement or otherwise complete the internship requirement. Additionally, progress in the Family and Human Services curriculum may be curtailed if a student fails an internship or is otherwise let go from an internship site due to performance problems. Please refer to the Human Services Internship Manual, which may be found on the Department's website, for more information. Students pursuing licensure must meet specific fieldwork requirements. Please refer to your state licensing board for specific fieldwork requirements.

Department Sponsored Co-Curricular Activities

Washburn Family and Human Services Coalition (WFHSC): The purpose of the Coalition is to bring together students from different fields of study that relate to human services. The Coalition provides career development, professional education, and networking opportunities for its members.

Department Honors

Graduation with Honors in Family and Human Services requires a minimum major GPA of 3.75, completion of a Department-approved project, and Department approval. Faculty will consider student performance of the interpersonal and professional skills listed in the Internship manual when determining approval.

Programs

- Family and Human Services - Addiction Counseling, BAS (p. 263)
- Family and Human Services - Family Services, BAS (p. 264)
- Family and Human Services, AA (p. 264)
- Family and Human Services-Early Childhood Professional Collaborative Program, AA (p. 264)
- Family and Human Services, Minor (p. 264)
- Health Services Administration for Family and Human Services, Minor (p. 264)
- Gerontology, Minor (p. 265)
- Addiction Counseling, Certificate (p. 265)
- Non-Profit Management, Certificate (p. 265)
- Trauma and Recovery, Certificate (p. 265)

Course Offerings

Many of the following courses are offered both online and face-to-face. Students trying to complete the Family and Human Services curriculum, however, are advised that the courses they need may not be offered in each format every semester.

HS 100 Family and Human Services (3)

This course provides an introduction to the philosophical framework, major theoretical models, and interdisciplinary nature of family and human services. Students will examine various approaches to family and human services within historical, societal, and cultural contexts. Students will explore occupations, professional organizations, and community resources relevant to family and human services. Students will complete a 30 hour service learning project in a relevant agency in their own community. Prerequisite: None

HS 131 Human Development (3)

This course provides an introduction to physical, sexual, cognitive, emotional, social and spiritual aspects of human development throughout the lifespan. It emphasizes developmental processes beginning with conception and continuing throughout childhood, adolescence, adulthood, later life and death. The course focuses on developmental processes within the domains of individual wellness, human sexuality, family issues, and cultural contexts. This course takes an interdisciplinary approach toward human development that is based on science and applied toward the goal of supporting individuals and families in solving important human problems. Prerequisite: None.

HS 201 Victimology (3)

This course provides an introduction to the history, development, theories, and major issues in the study of persons who are victims/survivors of crime. Using an ecological perspective of victimization, specific areas will be discussed, including domestic violence, sexual assault, child abuse, and homicide. Current research data will be discussed to enhance the understanding of victim trauma and recovery. Prerequisite: None,

HS 202 Victim/Survivor Services (3)

This course is an overview of the variety of human services provided to persons who are victims/survivors of crime. Settings to be studied are various criminal justice, medical, legal, crisis intervention, and advocacy agencies, and organizations that provide victim assistance. Emphasis is on current developments in the field. Prerequisite: None.

HS 220 Community Methods with Children & Youth (3)

This course is designed to introduce students interested in working with youth to the developmental and socialization influences that affect children. In addition, when one is concerned about children's development, one must also be concerned with children, families, and communities. This course will provide students the opportunity to become sensitized to the many issues that confront today's youth and critically look at what is being done. Many current topics will be covered in a survey format and students will investigate one topic in-depth. Prerequisite: None,

HS 221 Community Methods with Children & Youth (3)

This course will address environmental intervention with children and their families. Social networking and ecologically oriented programs will be the focus. Prerequisite: HS 220 or consent.

HS 222 Juvenile Justice (3)

The American system of juvenile justice, including the roles and relationships of law enforcement, courts, probation and parole, diversionary programs, service agencies, and correctional institutions. Prerequisite: None.

HS 231 Methods of Long Term Mental Health Care (3)

This course will build on the theoretical issues of basic health care, with emphasis on acquiring the skills to care for the health and safety concerns of people in long-term treatment programs. Prerequisite: None.

HS 232 Introduction to Community Mental Health Services (3)

This course is designed to familiarize students with the history and development of community mental health; federal, state and local policies impacting the delivery of community mental health services; and methods utilized in community mental health service delivery such as short-term counseling, crisis intervention, case management, prevention, education, and assessment of need for services. Prerequisite: None.

HS 240 Introduction to Intellectual Disabilities (3)

This is a survey course designed to introduce the student to a philosophy and set of practices for providing services to people with intellectual disabilities. Course topics include rights of individuals, legal issues, assessment and planning, communication, prevention, and supportive services for promoting independence and well-being. The course focuses on practical skill development for working with people with intellectual disabilities. Prerequisite: None.

HS 243 Fundamentals of American Sign Language (3)

This course is designed to provide students with a basic framework of knowledge regarding the nature of hearing loss and its extremely varied influence on the lives of people who are deaf, hard of hearing, late-deafened, and deaf with a dual diagnosis. Important issues within the field of deafness will be addressed, namely: Deaf culture, education of deaf people, technological advances, and political influences. Emphasis will be placed on learning the fundamentals of American Sign Language (ASL) while providing the student with a working vocabulary of approximately 500 signs. The student can expect sign demonstration and practice as well as lecture on various salient topics in deafness.

HS 250 Skills for Helping Professionals (3)

This course is designed to address foundational skills and techniques for providing family and human services. Students will engage in assignments to aid in their preparation for human services practice at the internship level. This course will explore ethics and professional conduct, goal setting, behavior-change strategies, communication skills, and relationships built on respect, compassion, and responsibility. Students will consider how values and biases influence helping. Special consideration will be given to understanding and working with diverse populations. Prerequisite: None.

HS 260 Directed Study (1-3)

Family and Human Services majors may pursue an independent study project if approved by the instructor in consultation with the Department Chair. A contract must be signed by all parties that specifies learning outcomes, assignments, deadlines, and assessment strategies. Independent Study courses must meet equivalencies to Federal definition of a credit hour. Prerequisite: Consent

HS 273 Gerontology Skills & Methods (3)

This course will allow students to build skills for delivering human services to elderly individuals and groups. Coursework will emphasize building relationships, assessment, and approaches to treatment. Prerequisite: None.

HS 290 Special Topics/Human Services (1-3)

Topics will vary from semester to semester and will be announced in advance.

HS 300 Prevention and Social Change (3)

This course will examine the foundational roles of prevention and social change in Family and Human Services. Content will focus on selection and implementation of social change and prevention strategies, with special attention to the importance of social justice in promoting a healthy society. Prerequisite: None.

HS 301 Working with Trauma (3)

This course provides information on the concept of psychological trauma as well as an overview of the common responses to trauma in individuals and families, PTSD diagnostic criteria, family stress theories, resource management, and resilience. Current treatment practices, both evidence-based and alternative, are reviewed. Principles for working with trauma-exposed populations in family and human services are emphasized. This course is required for the Trauma and Recovery Certificate in Family and Human Services. Prerequisite: None.

HS 302 Social Change & Advocacy/Human Services (3)

This course is designed to familiarize students with community organizing, mobilizing, and development. The content of the course will focus on an understanding of social action, change and advocacy in human service practice. Community organizing refers to a particular form of community participation in which "grassroots" people learn techniques to share in power. This implies that the model will focus on recruiting grassroots membership and target systems for change. The methods may include collaborative problem solving, strategic planning and confrontation. Targets for change may be individuals, systems, and families. Prerequisite: None.

HS 304 Case Management (3)

This course is designed to enhance students' ability to provide case management services. This course will focus on serving children with severe emotional disturbance and adults with mental illness. In addition, students will investigate issues and responsibilities of case managers, community resources, the family support perspective, client advocacy, the strengths approach when working with people, and the fundamental philosophy and applications of wraparound community services. This course will be helpful for those students with the desire to work as case managers, social workers who would like to expand their knowledge of case management in community settings, bachelor level psychology students wanting to work in community mental health, and administrators/supervisors who have the desire to implement case management services within their agencies. Prerequisite: None.

HS 308 Working with Parents and Youth (3)

This course examines effective parenting strategies and parent education programs, with attention to contemporary sociocultural issues impacting families. Students will study evidence-based prevention and intervention practices for working with parents and youth that promote healthy child development, effective family functioning and resilience. Prerequisite: None.

HS 310 Human Sexuality (3)

This course will provide students the opportunity to develop basic background knowledge of human sexual anatomy, response, behavior, developmental aspects, problems, and laws. Students will increase vocabulary in the area of human development to describe and identify normal and problematic areas of human sexuality. Prerequisite: None.

HS 312 Substance Abuse and Co-occurring Disorders (3)

This course teaches students about effective addictions treatment for persons with co-occurring disorders. The course will provide students with an understanding of terms, services delivery systems, assessment, and strategies for working with clients with co-occurring disorders. The course will cover methods for providing individualized treatment based on a consumer's biological, psychological, social and spiritual needs. The content of this course is based on TAP21 competencies. This is a required course for addictions counseling licensure with the Kansas BSRB. Prerequisite: None.

HS 316 Addictions Treatment (3)

This course describes the most generally accepted and scientifically supported models of treatment, recovery, relapse prevention, and continuing care for addiction and other substance-related problems. Students will be exposed to the principles and philosophy of prevention, treatment and recovery. The course will focus on the social, political, economic, cultural, and family context within which addiction and substance abuse exist, including risk and resiliency factors that characterize individuals and groups and their living environments. Emphasis will be given to the behavioral, psychological, physical health and social effects of psychoactive substances on the user and significant others and the importance of research and outcome data and their application in clinical practice. The content of this course is based in part on TAP 21 competencies. This is a required course for addictions counseling licensure with the Kansas BSRB. Enrollment in HS 516 requires department consent.

HS 321 Youth & Violence (3)

This course is designed to provide an overview of violence and youth, specifically the problems associated with it; including, but not limited to, such issues as definition, reporting, investigations, causes, treatment, the importance of family preservation and re-integration, institutional abuse, institutional neglect, parent training, parent support, prevention, the roles of foster care, state agencies, the court system, the schools, etc. The role of the human service worker in preventing and dealing with child abuse and youth violence will be an area of special focus. Child abuse will be viewed as a part of a continuum of personal/family violence. Prerequisite: None.

HS 323 Service Coordination (3)

This course focuses on the coordination of services for human services clients. Students will learn about intake, screening, assessment, diagnosis, client placement, treatment planning, discharge/transfer plans, report writing, referral and other aspects of service coordination. The course stresses a multidisciplinary approach to service coordination and examines the roles of professionals, agencies, families, community groups, and other support systems in the treatment process across the continuum of care. Students will learn effective, ethical ways to work with clients, with a focus on recovery-oriented systems of care. The content of this class is based in part on TAP21 competencies. This is a required course for addictions counseling licensure with Kansas BSRB.

HS 325 Group Work (Group Counseling) (3)

This course is designed to provide both knowledge and skills in the organization and facilitation of psycho-educational and other group experiences used in the helping process, with special focus on addiction and recovery. Students will learn a variety of techniques and strategies designed to facilitate and enhance group learning and the personal growth of participants—particularly psycho-social development. The content of this course is based in part on TAP 21 competencies. This is a required course for addictions counseling licensure with the Kansas BSRB.

HS 330 Theories of Intervention (3)

This course focuses on the theories that guide the practice and delivery of Family and Human Services. The course gives the student an understanding of how different theoretical approaches have influenced the development of human service interventions, and includes the study of a variety of helping approaches such as the family systems approach, the feminist approach, and the cognitive-behavioral approach. Students will evaluate the usefulness of the different theoretical approaches in addressing important human problems. In addition, students will be encouraged to explore their own views about human nature and to understand how these views might influence their delivery of human service interventions. Prerequisite: None.

HS 341 Applied Behavioral Interventions (3)

This course is designed to familiarize students with the history, theory, and practice of applied behavior analysis. Emphasis will be on the “practice” side, with students learning how to define and observe behaviors, design effective and socially valid interventions to help consumers reach valued goals, and analyze the impact of interventions on important behaviors. Students will learn about best practices in behavior analysis with a variety of consumer populations and will gain experience in reading and evaluating reports of behavior-analytic research. Prerequisite: None.

HS 355 Peacemaking (3)

The course will cover the need for peace education in our society. Peace education is pertinent for students majoring in human services with an interest in working with violence and poverty prevention, social justice, the environment, youth, and sustainable communities. Other students will find value in the course through the experiential component of designing a peace education presentation that can be used in their community. Topics include personal peacemaking, nonviolence, conflict resolution, compassionate intentional living, civil rights, equity, education and the environment. Prerequisite: None.

HS 360 Directed Study (1-3)

Family and Human Services majors may pursue an independent study project if approved by the instructor in consultation with the Department Chair. A contract must be signed by all parties that specifies learning outcomes, assignment deadlines, and assessment. Independent Study courses must meet equivalencies to Federal definition of a credit hour. Prerequisite: Department consent

HS 362 Human Trafficking and Modern Day Slavery (3)

This course is an advanced undergraduate course that focuses on contemporary human trafficking and slavery. Types of trafficking and slavery to be covered include sex trafficking, bonded labor, forced labor, child soldiers, chattel slavery, and domestic servant slavery. The contributing roles of the state, organized crime, the media, culture, and corruption will be examined. It will review the debates about defining trafficking and the connection between sex trafficking and prostitution. Course materials may include testimonies and autobiographies by survivors, research reports, theoretical essays, policy statements, expert testimonies, podcasts and videos. Prerequisite: None.

HS 370 Mass Victimization/Mental Health (3)

This course will provide an overview of interventions used with victims following mass violence and disasters. Additionally, compassion fatigue effects and methods used to assist emergency responders who become victims of disaster through their role in response and recovery will be thoroughly discussed. Attention will focus on mental health effects dealing with both immediate and long-term recovery issues for immediate victims and those responding to the incident. Enrollment in HS 670 requires department consent.

HS 371 Mental Health and Aging (3)

This course provides an overview of biological, psychological, and social factors related to successful aging, with an emphasis on the development and maintenance of mental health across the lifespan. The course considers ways that HS professionals can support mental health throughout the aging process. Students will also learn about mental health problems in relation to the aging process. Prerequisite: None.

HS 372 Death & Dying (3)

This course will cover biological, psychological, social, and cultural issues surrounding death and the dying process. Topics will include stages of dying, approaches to working with people who are dying and their families, the bereavement process, cross-cultural practices related to death and dying, services available to people who are dying and to their caregivers, and legal and ethical issues surrounding end-of-life decision making.

HS 373 Disaster Response and Recovery (3)

This course provides an overview of the hazard cycle and basic concepts of disaster preparedness, response and recovery. Additionally, this course will provide an overview of the helping professional's role during times of disaster including discussion of the specific emergency support functions assigned to groups and agencies as designated in the National Response Framework. Emphasis will also be paid to concepts used when working with direct and indirect victims of disaster.

HS 374 Eastern Therapies in Intervention & Treatment (3)

This course highlights Eastern therapies in intervention and treatment across the range of human service populations, including mental health, alcohol and drug abuse, crisis and post-trauma, and crime victimization. The focus will be on an understanding of Western adaptations, transcultural, and holistic approaches to suffering and healing. Special emphasis will be on the Western adaptations of Morita and Naikan therapies. The course is highly interactive and experiential. Prerequisite: None.

HS 375 Hate and Bias Crimes (3)

This course provides an overview of hate and bias crimes in the United States. Focus will be on causative factors, human service and criminal justice responses, and impact on victims/survivors and communities. Hate violence based upon race and ethnicity will be a primary focus, but discussion will also include hate violence targeting persons because of gender, sexual orientation, age, religion, and disabilities. Prerequisite: None.

HS 377 Personal & Community Prevention (3)

This course explores a principle-based model of professional health and helping. It focuses on a new and innovative approach to prevention and human services that changes lives, communities, and organizations from the inside-out. Most recently known as The 3 Principles (also known as Health Realization), this approach emphasizes people's innate health and resilience to foster the capacity for personal well-being and the ability to function productively and successfully among colleagues and constituents. This course is directed toward strengthening the student's approach to life and work, which is necessary for developing the capacity to serve others and respond to the consistent demands of the helping profession. Prerequisite: None.

HS 378 Issues in Aging (3)

The course provides an interdisciplinary examination of the human aging process by surveying biological, psychological, sociological, and cultural theories, and influences, on aging. While this course does not focus solely on old age, the course will examine social policies and human services for older people that are informed by our knowledge of the aging process. Prerequisite: None.

HS 381 Internship I (3)

This course is the first internship required in the Associate and, Baccalaureate programs, and may be used to meet certificate requirements. The internship consists of a minimum of 150 clock-hours of field experience in an agency in the community under the supervision of agency staff and university faculty. In addition, a weekly seminar is required to integrate learning in the field with classroom instruction. Students work on specific competencies related to the delivery of human services. Additionally, addiction counseling students work on TAP 21 competencies. This is a required course for addiction counseling licensing with the Kansas BSRB. Prerequisite: Department consent.

HS 390 Special Topics (1-6)

Topics will vary from semester to semester and will be announced in advance.

HS 395 International Service Experience (0-3)

This course will offer the students the opportunity to experience the culture of countries other than the United States while engaged in meaningful service in both urban and rural settings. Through a partnership with a non-governmental agency service assignments will be arranged to meet the needs of various communities. The focus of this assistance is on community and economic development, sustainable agriculture, health, education, training in non-violent resolution of conflicts, and women's empowerment. The purpose of the experience is to develop friendships and a sense of partnership with the members of the community organizations and people the students interact with during their time in country. In addition to completing the service project students will learn about the history, political systems, and the culture of the country they visit. Prerequisite: Instructor consent.

HS 410 Pharmacology & SUDs (3)

This course covers fundamental concepts of pharmacology, including physiological, behavioral, psychological, social and health effects of psychoactive substances. The course also covers infectious diseases associated with substance use and methods of disease prevention. Students will learn about drug screening, drug testing and HIV/AIDS testing and counseling, and associated legal and ethical issues. The content of this course is based on TAP21 competencies. This is a required course for addictions counseling licensure with the Kansas Behavioral Sciences Regulatory Board. Prerequisite: None.

HS 411 Family Issues (3)

This course will explore the role that family interaction plays in the various areas of Family and Human Services. Different theories of family functioning and intervention will be reviewed, as well as major risk and resiliency factors. Specific attention will be paid to family issues using a strengths-based approach to domestic violence, youth issues, aging family members, illness and disability, and addictions. For students preparing to work as addiction and recovery counselors, knowledge of ways to teach or facilitate discussions of how substance use and abuse affects families and concerned others will be emphasized. The content of this course is based in part on TAP 21 competencies. This is a required course for addictions counseling licensing with the Kansas BSRB. Enrollment in HS 411 requires department consent.

HS 414 Individual Counseling Methods (3)

This course will introduce students to a variety of evidence-based counseling theories and approaches for working with individual clients and family/significant others. Students will study common topics that arise in individual counseling as well as cultural and ethical issues associated with effective counseling practice. In addition, the course will examine methods for forming effective helping relationships along with strategies for helping clients establish and work toward realistic, meaningful goals. Students will have the opportunity to demonstrate an individual counseling approach covered in this course. The content of this course is based in part on TAP 21 competencies. This is a required course for addiction counseling licensing with the Kansas BSRB.

HS 421 Women and Addiction (3)

Women with substance use disorders have serious and unique health concerns. Using a bio-psycho-social-spiritual framework, this course will examine how treatment services are changing to help women successfully navigate the road to recovery. Prerequisite: None.

HS 429 Adolescence & Substance Abuse (3)

This course is designed to cover the dynamics of substance abuse for children and youth, and the state-of-the-art of prevention and intervention. Special topics of the course will include growth and development, family process, assessment, intervention, treatment, co-dependency, education, cultural factors, at-risk populations, prevention, and resources. Prerequisite: None.

HS 446 Legal, Ethical, & Professional Issues (3)

This course will address legal, ethical, and professional issues which impact the delivery of human services, including codes of ethics, confidentiality, duty to warn, and similar issues. The content of this course is based in part on TAP 21 competencies. This is a required course for addictions counseling licensing with the Kansas BSRB. Prerequisite: Senior standing.

HS 450 Multicultural Issues (3)

This course provides an overview of the major issues in providing family and human services to the increasingly pluralistic population of the United States. Themes to be discussed are: cross-cultural theories of intervention, communication styles, definitions of suffering and recovery, and working with diverse individuals and groups. The range of human service delivery systems, including mental health, alcohol and substance abuse, youth services, gerontology, and victim/survivor services, will be addressed from a multicultural perspective. Emphasis will be on exploring provider attitudes and competencies as well as developing practical applications and solutions. For students preparing to work as addiction and recovery counselors, special emphasis will be given to recognizing the social, political, economic, and cultural context within which addiction and substance abuse exist, including risk and resiliency factors that characterize individuals and groups and their living environments. Enrollment in HS 450 requires department consent.

HS 480 Internship II (3)

This course is the second internship required in the Baccalaureate program and may also be used to meet certificate requirements. The internship consists of a minimum of 150 clock-hours of field experience in an agency in the community under the supervision of agency staff and university faculty. In addition, a weekly seminar is required to integrate learning in the field with classroom instruction. Students will work on specific competencies related to the delivery of human services. Additionally, addiction counseling students will work on TAP 21 competencies. This internship requires summative reflection, serving as a culminating experience for Bachelor's degree students. This is a required course for addiction counseling licensing with the Kansas BSRB. Prerequisite: Department consent.

HS 481 Internship in Family & Human Services (3)

HS 481 is a supplemental internship course for baccalaureate and certificate students within the Human Services Department who want to obtain additional field experience. The internship consists of a minimum of 150 clock-hours of experience in an agency in the community specific to the student's area of concentration, under the supervision of agency staff and university faculty, as well as a weekly seminar to integrate learning in the field with classroom instruction. Practice will focus on advanced-level skills specific to the student's area of emphasis. Department consent is required for enrollment in this course.

HS 495 Research and Evaluation (3)

This course introduces students to applied research and evaluation in family and human services. The purposes and techniques of applied research and evaluation are explored, including qualitative and quantitative approaches. Students gain experience with the critical reading of research articles relating to the evaluation of human service programs. Projects give students direct experience with program evaluation and applied research. The content of this course is based in part on TAP 21 competencies. This is a required course for addictions counseling licensing with the Kansas BSRB. This is a summative course that requires students to synthesize knowledge learned across the curriculum. Prerequisite: Junior/Senior Standing.

HS 498 Senior Capstone Seminar (3)

This capstone course is meant to provide students with the opportunity to assimilate and synthesize the knowledge, skills, and attitudes they have acquired through their coursework and field experiences in the major. Through the development of a portfolio, students will demonstrate the acquisition of the major learning objectives necessary to become a skilled human service professional. This course will address additional issues related to professional development and educational advancement. Prerequisite: Majors only.

Family and Human Services - Addiction Counseling, BAS

Please refer to the Programs, Degrees, and Graduation Requirements (p. 67) section to learn about the university and general education requirements to graduate with a Bachelor's degree. This curriculum provides the educational requirements to become a Licensed Addiction Counselor with the state of Kansas.

Degree Requirements

The required Human Services courses include the following:

(Students must receive a C or better in each course.)

Code	Title	Hours
BAS - AC Requirements		
HS 100	Family and Human Services	3
HS 131	Human Development	3
HS 250	Skills for Helping Professionals	3
HS 381	Internship I	3
HS 300	Prevention and Social Change	3
HS 323	Service Coordination	3
HS 325	Group Work (Group Counseling)	3
HS 411	Family Issues	3
HS 446	Legal, Ethical, & Professional Issues	3
HS 480	Internship II	3

HS 495	Research and Evaluation	3
Subtotal		33
Addiction Counseling Track		
HS 312	Substance Abuse and Co-occurring Disorders	3
HS 316	Addictions Treatment	3
HS 410	Pharmacology & SUDs	3
HS 414	Individual Counseling Methods	3
HS Electives (selected with an advisor)		6
Subtotal		18
Correlate Course		
EN 208	Professional Writing	3
Subtotal		
Total Hours		54

Family and Human Services - Family Services, BAS

Please refer to the Programs, Degrees, and Graduation Requirements (p. 67) section to learn about the university and general education requirements to graduate with a Bachelor's degree. The Family Services track is meant to provide students with a holistic, generalist foundation in Human Services and focuses on family life education in a variety of areas, including disabilities, gerontology, mental health, youth services, and trauma and recovery services.

Degree Requirements

The required Human Services courses include the following:

(Students must receive a C or better in each course.)

Code	Title	Hours
BAS - FS Requirements		
HS 100	Family and Human Services	3
HS 131	Human Development	3
HS 250	Skills for Helping Professionals	3
HS 381	Internship I	3
HS 300	Prevention and Social Change	3
HS 323	Service Coordination	3
HS 325	Group Work (Group Counseling)	3
HS 411	Family Issues	3
HS 446	Legal, Ethical, & Professional Issues	3
HS 480	Internship II	3
HS 495	Research and Evaluation	3
Subtotal		33
Family Services Track		
HS 301	Working with Trauma	3
HS 308	Working with Parents and Youth	3
HS 378	Issues in Aging	3
HS 414	Individual Counseling Methods	3
HS Electives (selected with an advisor)		6
Subtotal		18
Correlate Course		
EN 208	Professional Writing	3

Subtotal

Total Hours **54**

Family and Human Services, AA Degree Requirements

Please refer to the Programs, Degrees, and Graduation Requirements (p. 67) section to learn about the university and general education requirements to graduate with an Associate's degree. The required Family and Human Services courses include the following:

(Students must have a C or better in each course.)

Code	Title	Hours
AA Requirements		
HS 100	Family and Human Services	3
HS 131	Human Development	3
HS 323	Service Coordination	3
HS 250	Skills for Helping Professionals	3
HS 381	Internship I	3
HS Electives (selected with advisor)		9
Total Hours		24

Family and Human Services - Early Childhood Professional Collaborative Program, AA

Students who have completed an Early Childhood Professional Certificate at Washburn Institute of Technology may enter into an articulation agreement to earn their Associate of Arts in Family and Human Services at Washburn University. For more information, see the "Associate Degree Programs with Washburn Institute of Technology (p. 272)" section in the catalog.

Family and Human Services, Minor Minor Requirements

A Minor in Family and Human Services consists of no less than 15 hours of Human Services coursework selected in consultation with a Department Advisor and approved by the Chair of the Department of Family and Human Services. Students must attain a grade of "C" or better for each course applied to the Minor. Up to 6 credit hours towards the Minor can be transferred from another accredited institution of higher education.

Health Services Administration for Family and Human Services, Minor Family Services Emphasis

Human Services Bachelor degree students with an interest in Gerontology may develop a specialization in health services by earning a Minor in Health Services Administration in the Allied Health Department by completing a set of five specific upper-division courses in the health services administration field. Declaration of BAS major in Human Services (Family Services) and declaration of minor in the Bachelor

of Health Science program are necessary before enrollment in Health Services courses.

Admission Requirements for Minor in Health Services Administration

Interested students must apply for admission to the minor program through both their Human Services Department advisor and the Bachelor of Health Science advisor. Admission to the minor program is available to students who have declared their Bachelor degree with a major in Human Services. The requirements for acceptance into the minor program are junior standing, a cumulative GPA of 2.0, and a completion with a grade of "C," or better, of the following Human Services courses (15 semester hours):

Code	Title	Hours
HS 446	Legal, Ethical, & Professional Issues	3
HS 378	Issues in Aging	3
HS 300	Prevention and Social Change	3
HS 371	Mental Health and Aging	3
HS 372	Death & Dying	3

Any course substitutions must be approved by the Human Services department chair.

Minor Requirements

Code	Title	Hours
Required Courses		
AL 366	Legal & Regulatory Issues for the Health Care Professional	3
AL 367	Foundations of Quality Improvement in Health Care	3
AL 375	Health Care Policy	3
AL 399	Health Information Systems	3
AL 405	Financial Issues in Health Care	3
Total Hours		15

Gerontology, Minor

This minor is constructed around the premise that a broader understanding of Gerontology is critical to meet the needs of an aging society. The minor is also based on the premise that Gerontology is, by its nature, an interdisciplinary course of study requiring education in bio-psycho-social issues. Expanded career opportunities in gerontology are forecast in many areas, including healthcare, the helping professions, public policy and more. As a result, this minor is open to all undergraduate students across the university and includes courses from a variety of disciplines. This minor will prepare students to meet increasing workforce needs of an aging society and/or to pursue graduate study in Gerontology or related fields. For more information, contact the minor coordinator, Dr. Deborah Altus, in the Family and Human Services Department and check the "Interdisciplinary Academic Programs (<https://catalog.washburn.edu/undergraduate/interdisciplinary-academic-programs/>)" section in this catalog.

Addiction Counseling, Certificate

Awarded upon completion of a Bachelor degree and completion of 33 credit hours as follows:

Code	Title	Hours
HS 312	Substance Abuse and Co-occurring Disorders	3
HS 316	Addictions Treatment	3
HS 323	Service Coordination	3
HS 325	Group Work (Group Counseling)	3
HS 410	Pharmacology & SUDs	3
HS 411	Family Issues	3
HS 414	Individual Counseling Methods	3
HS 446	Legal, Ethical, & Professional Issues	3
HS 495	Research and Evaluation	3
Two Approved Internships		6
Total Hours		33

Non-Profit Management, Certificate

Awarded upon completion of a Bachelor degree, and completion of 27 credit hours as follows:

Code	Title	Hours
HS 323	Service Coordination	3
PO 245	Introduction to Public Administration	3
HS 300	Prevention and Social Change	3
PO 393	Public Budgeting	3
or PO 346	Problems in Public Administration	
PO 395	Non-Profit Management	3
or PO 394	Public Management Techniques	
HS 446	Legal, Ethical, & Professional Issues	3
or PO 346	Problems in Public Administration	
HS 495	Research and Evaluation	3
or PO 401	Program Evaluation Methods	
300/400 HS or PO elective		3
Approved Internship in Family and Human Services or Political Science		3
Total Hours		27

This certificate is offered in collaboration with the Political Science Department.

Trauma and Recovery, Certificate

Awarded upon completion of a Bachelor degree, and completion of 27 credit hours as follows:

Code	Title	Hours
HS 100	Family and Human Services	3
HS 131	Human Development	3
HS 301	Working with Trauma	3
HS 323	Service Coordination	3
HS 325	Group Work (Group Counseling)	3
HS 411	Family Issues	3
HS 446	Legal, Ethical, & Professional Issues	3
300/400 HS Elective		3
Approved Internship		3
Total Hours		27

Social Work Department

Website: www.washburn.edu/social-work (<https://www.washburn.edu/social-work/>)

Faculty

Tonya Ricklefs, PhD, Assistant Professor, Department Chair
 Kimberly Harrison, PHD, Professor, BSW Program Director
 James E. Smith, PhD, Professor
 Bassima Schbley, PhD, Associate Professor
 Rhonda Peterson Dealey, DSW, Assistant Professor, MSW Program Director
 Beth O'Neill, PHD, Assistant Professor
 Jenny Lamb, LSCSW, Lecturer
 Scott Sainato, PhD, Assistant Professor
 Heather Lassman, MSW, Senior Lecturer
 Lydia Diebolt, LSCSW, Lecturer, BSW Field Education Director
 Marcelle Shrake, Senior Administrative Assistant

Mission

The mission of the Bachelor of Social Work (BSW) program at Washburn University is to prepare students for the competent and ethical practice of social work within an entry-level generalist model, via systematic attention to the core multidimensional competencies established by the Council on Social Work Education. The program is committed to providing a respectful, supportive approach to learning, while maintaining high academic standards. In doing so, the BSW program is systematically linked to the core values of the social work profession.

BSW Program Description

Education for competence in social work practice is the guiding principle of the Department of Social Work. The BSW program in Social Work provides a respectful, supportive approach to learning while maintaining high academic standards. The program is committed to providing opportunities to students who may otherwise experience barriers to higher education. The BSW program is strongly linked to the core values of the profession. The program maintains its mission by integrating content throughout the curriculum relevant to the pursuit of social and economic justice, as well as its dedication to the value, worth, and dignity of all persons. The BSW program is designed to prepare undergraduate social work students for a generalist practice that will meet the multi-level needs of clients.

Student Learning Outcomes

Upon graduation, BSW students are expected to have developed nine core competencies (CSWE, 2015).

1. Demonstrate ethical and professional behavior
2. Engage diversity and difference in practice
3. Advance human rights and social, economic, and environmental justice
4. Engage in practice-informed research and research-informed practice
5. Engage in policy practice
6. Engage with individuals, families, groups, organizations, and communities
7. Assess individuals, families, groups, organizations, and communities
8. Intervene with individuals, families, groups, organizations, and communities

9. Evaluate practice with individuals, families, groups, organizations, and communities

Upon graduation, all students in the Washburn Bachelor of Social Work will be able to:

1. Demonstrate a high standard of ethical and professional behavior
2. Think critically and engage in self-reflective reasoning
3. Evaluate practice to better serve individuals, families, groups, organizations, and their community
4. Work to advance human rights and the respect for diversity and difference

BSW students are expected to have developed knowledge, skills, critical thinking, professional values and ethics, and cognitive/affective reasoning in relation to the nine core competencies (CSWE, 2015).

Licensure Eligibility

All graduates of the BSW program are eligible to pursue licensure at the baccalaureate level (LBSW) in the State of Kansas and in other states that require social work licensing or registration at the baccalaureate level. This licensure is necessary for the practice of social work, and satisfactory completion of an accredited social work program is necessary to be eligible for the LBSW (exact requirements vary from state to state).

Program Accreditation

Washburn University's BSW program is fully accredited by the Council on Social Work Education (CSWE). Students may wish to review the Educational Policy and Accreditation Standards for social work degree programs in social work education as set forth by the CSWE. The full text of the CSWE Policies is available in the Social Work office, or at www.cswe.org (<https://www.cswe.org>).

Washburn Transformational Experience (WTE)

Social work is a service-oriented profession; the social work faculty has created what has been called a "built-in" transformational experience and this is required of all BSW students. This means that a BSW student will fulfill the community service component of the WTE by successfully completing SW 354 Seminar & Field Practicum I & SW 355 Seminar & Field Practicum II and all other requirements of the Community Service WTE.

BSW students with questions about the WTE should check with their respective academic advisors, the Director of the BSW Program, or the Department Chair.

Department Honors

The Department of Social Work recognizes students who demonstrate excellence in their academic work with a designation of BSW honors. An honors designation is included in the commencement program and on the student's academic transcript. BSW students who are eligible for honors must meet all of the following minimum requirements:

1. Overall cumulative GPA of 3.2
2. Social work GPA of 3.5

3. Grade of "A" on a designated SW 354 BSW Seminar assignment, as determined by the Social Work Department and specified on the BSW Honors Application
4. Favorable recommendation of department

Students should apply for honors during the calendar year in which they intend to graduate. Students must meet the posted minimum GPA requirements both at the time of application and upon completion of all undergraduate coursework.

To apply for BSW honors, students should complete the BSW Honors Application electronically through Sonia Live and provide the requested demographic and academic information. The application will be open annually from January 1 through February 15; No applications for honors will be considered after February 15. Students will be notified of a provisional decision regarding honors in late April based on the academic information available at that time, and this information will be used for the designation of honors in the commencement program. The final designation of honors that will be reflected on the student's academic transcript will be decided following the posting of the student's final semester grades.

Online and Web-Assisted Courses

Students who have not taken an online course at Washburn University are required to sign up for and participate in the online Student Orientation training at the earliest practicable time. The orientation is available in MyWashburn and is listed under the "My Courses" tab along with any other courses in which the student is enrolled.

Required Subscription to Taskstream

The Department of Social Work believes that integrative and reflective learning is central to its academic programs. To help achieve that goal, the department has decided to make use of what is referred to as electronic portfolios ("e-portfolios") in every required social work course (and in some of the social work electives). In these courses, there will be at least one assignment referred to as a Competency Scenario Assignment (CSA) which will require the student to utilize the e-portfolio system to complete the assignment. Therefore, each Washburn student enrolled in social work courses will need to purchase a personal subscription to Taskstream, a web-based educational services company. Each course instructor will provide instructions on how to do this. Because the e-portfolio system will be used within and across students' social work courses, an annual subscription is required. No other e-portfolio system will be permitted. Please see the BSW Student Handbook for additional details.

Undergraduate Social Work Student Association

The primary purpose of the Washburn Student Social Work Association (WSSWA) is to encourage responsible student participation in the policy and decision-making processes of social work education and to promote student cooperation and welfare. WSSWA seeks to provide its members with activities designed to inform them of the many opportunities in the field of social work, to enhance the students' personal and professional lives, to provide opportunities for association with social work professionals and community providers, and to participate actively in community service. Members commit themselves to the organization by attendance at meetings, involvement in activities, and participation on BSW Program committees. Membership in this organization is open to all Washburn undergraduate social work students. For more

information see the Social Work Student Organizations page on the Social Work Department's website: www.washburn.edu/social-work (<https://www.washburn.edu/social-work/>).

Programs

- Social Work, BSW (p. 268)
- Social Work, Minor (p. 270)

Course Offerings

SW 100 Introduction to Social Work & Social Welfare (3)

The purpose of the course is to introduce interested students to the basic mission, values and ethics, knowledge base, methods, and services of the social work profession. An overview of the United States' historical response to human needs and the current status of public social welfare policy will be explored. Prerequisite: None.

SW 250 General Social Work Perspectives (3)

This course presents an overview of Generalist Social Work Perspectives. The emphasis of this course will be on introducing students to the integration of biological, psychological and social contexts in order to prepare them for upper-level course work in social work theories and practice. Prerequisite: None.

SW 325 Micro Human Behavior & Social Environment (3)

The purpose of this course is to develop knowledge about human behavioral interactions, using a person-in-environment perspective. Bio-psycho-social aspects of individual, family and group development and interactions will be emphasized. This course will provide the foundation for developing direct social work practice skills. Prerequisites: SW 100 and SW 250.

SW 326 Macro Human Behavior & Social Environment (3)

The purpose of this course is to develop knowledge about human interactions relevant to large groups, organizations, communities, cultures, societies, and other, larger systems. The emphasis will be to build upon the person-in-environment perspective, and to expand this model to encompass the effects of larger systems on individual functioning. This course will provide the foundation for developing social work macro-level practice skills. Prerequisites: SW 100 and SW 250.

SW 350 Social Policy and Programs (3)

The major purpose of this course is to develop the conceptual knowledge of policy formulation, and the content, values, and process elements necessary for conducting social policy analysis. Prerequisites: SW 100 and SW 250.

SW 352 Micro Social Work Practice (3)

The major purpose of this course is to prepare social work students for their field practicum work. The emphasis is on the development of working knowledge of the generalist practice model, interactional theories, and methods of facilitating change. In addition, there will be an emphasis placed on developing skills for providing social work services. For social work majors only. Prerequisites: SW 100 and SW 250.

SW 353 Macro Social Work Practice II (3)

This second practice course will emphasize more advanced theoretical material, and the application of the generalist practice model to more complex systems. Skill development will be emphasized for assessment of client systems, and delivery of social work services. For social work majors only. Prerequisites: SW 100 and SW 250.

SW 354 Seminar & Field Practicum I (6)

This course integrates the Field Practicum component and the Practice Seminar. Students will spend 16 hours per week in their field placements, with direct supervision by a licensed professional social worker. Opportunities for engaging in generalist social work practice at micro, mezzo and macro levels will be provided. In addition, students will attend a three-hour seminar each week. The seminar will emphasize the integration of their field experiences with the generalist practice model, and theories of change. Students must make application for the field in their junior year by the posted deadlines. Concurrent enrollment in SW 425 Pre-BSW Practicum Workshop is required. The culmination of the BSW program is the Field Practicum Placement. Two consecutive practicum/seminar courses are required and constitute this culminating educational experience. Prerequisites: SW 100, SW 250, SW 325, SW 326, SW 352, SW 353, and a 2.5 cumulative grade point average; admission to the BSW program; and a practicum-director-approved placement in a Field Practicum.

SW 355 Seminar & Field Practicum II (6)

This is the second semester of the field experience and field seminar required for social work majors. The culmination of the BSW program is the Field Practicum Placement. This Practicum requires summative reflection, serving as a culminating experience for Bachelor's degree students. Two consecutive practicum/seminar courses are required and constitute this culminating educational experience. Prerequisites: SW 100, SW 250, SW 325, SW 326, SW 352, SW 353, SW 354; admission to the BSW program; and a practicum director- approved placement in a Field Practicum.

SW 356 Social Work Practice in Healthcare (3)

This course introduces students to generalist social work practice in healthcare settings, including the technological, social, political, ethical, and financial factors impacting patient care. This course emphasizes the relevant theories and models for healthcare practice at the micro, mezzo, and macro levels. Prerequisite: None.

SW 357 Inclusive and Competent Social Work Practice in Healthcare (3)

The purpose of this course is to prepare social workers for generalist healthcare practice with clients with diverse backgrounds. The emphasis is on inclusive and culturally competent social work practice, to include the development of cultural awareness, humility, and knowledge about health and healthcare, as well as issues that can affect inclusive access, such as language and literacy, physical and cognitive ability, gender and sexuality, and macro, policy, and legal factors. Prerequisite: None.

SW 358 Family Decisions in Healthcare (3)

The purpose of this course is to provide overall theoretical information about how families function and communicate during the process of health and long-term care decision-making. This course will provide overall generalist social work application skills and addresses interdisciplinary communication skills critical for working in a variety of healthcare settings. Prerequisite: None.

SW 359 Human Sexuality and Social Work Practice (3)

The major purpose of this course is to prepare social work students to explore the physiological, psychological, and socio-cultural variables associated with sexual identity, sexual orientation, sexual behavior, as well as to introduce a variety of theories explaining sexual behavior, development of sexual norms, and gender fluidity. Students will develop an understanding and appreciation of all aspects of human sexual behavior. Prerequisite: None.

SW 360 Geriatric Social Work Practice (3)

The purpose of this course is to provide students with an overview of gerontological social work in generalist practice with an emphasis on the principles of practice, the application of research, and the formulation of policies as they relate to older adults. The course will define the role of the social worker from a gerontological perspective and will introduce considerations for special populations that are most vulnerable: aging people of color, the disabled, and gay and lesbian aged. Prerequisite: None.

SW 361 Independent Study (1-3)

Social Work majors may pursue an independent research project approved by the BSW Program Director in consultation with the Department Chair. Independent Study may not be used in place of any courses required of the social work major. Independent Study courses must meet equivalencies to Federal definition of a credit hour. Prerequisites: SW 100 and SW 250.

SW 362 Social Work Research I (3)

Introduces students to the basic principles of generalist quantitative social work research, including ethics, problem formulation, and quantitative research designs and methodologies. Emphasis is placed on becoming a responsible consumer of quantitative research as well as exploring quantitative evaluation of programs and outcomes of practice. Prerequisites: SW 100 and SW 250.

SW 363 Social Work Research II: App (3)

Introduces students to the basic principles of generalist qualitative social work research, including ethics, problem formulation, and qualitative research designs and methodologies. Emphasis is placed on becoming a responsible consumer of qualitative research as well as exploring qualitative evaluation of programs and outcomes of practice. Prerequisites: SW 100 and SW 250.

SW 390 Contemporary Issues in Social Work (1-3)

A series of courses are designed to supplement the core curriculum. Each of these four required elective courses will focus on a contemporary issue, and will emphasize the integration of core social work values and ethics, the generalist practice model, and theories of human interactions and change. Specific courses taught under this course number include, among other courses: Child Welfare, Social Work and the Law, Multicultural Social Work, Case Management, and Social Work Policy Practice.

SW 395 Social Work International Service (3)

This course uses an international lens to provide BSW students the opportunity to learn about social work practice, including the effects of historical, social, psychological, physical, and environmental conditions on well-being at the micro, mezzo, and macro levels. The course will emphasize ways that culture and diversity intersect with social work practice. A portion of this course includes international travel.

SW 425 Pre-BSW Practicum Workshop (0)

In this mandatory one-day workshop, BSW students will be oriented to the field practicum, expectations regarding professional comportment, duties/responsibilities in completing tasks, required practicum program paperwork, and other aspects of the practicum experience. Concurrent enrollment in SW 354 Seminar and Field Practicum is required. Prerequisites: SW 100, SW 250, SW 325, SW 326, SW 352, SW 353, and a 2.5 grade point average overall; admission to the BSW program; and a practicum-director-approved placement in a Field Practicum.

Social Work, BSW

The BSW Program is designed to prepare social work students for professional generalist practice. This involves the application of an

eclectic knowledge base, professional values, and a wide range of skills to target systems of any size, for change within the context of four primary processes. First, generalist practice involves working effectively within an organizational structure and doing so under supervision. Second, it requires the assumption of a wide range of roles. Third, generalist practice involves the application of critical thinking skills to the planned change process. Fourth, it emphasizes client empowerment. In this regard, social workers utilize their knowledge and skills to assist individuals, families, groups, communities and organizations to improve their social functioning, obtain the resources needed to accomplish identified goals, or effect social change to eliminate social and economic injustice. The framework for accomplishing these goals is centered in competent assessments of the person-in-the-environment, and the subsequent skillful selection of multilevel interventions, in keeping with social work values and ethical practice.

Careers in social work occur in a variety of settings, such as public/state social services, hospitals, schools, mental health agencies, courts, nursing homes, crisis centers, and children and family service agencies. Career options include direct practice with clients, administration, social planning, and legislative advocacy.

The BSW program is typically completed in four years by full-time students. Two lower division courses, SW 100 Introduction to Social Work & Social Welfare and SW 250 General Social Work Perspectives, are recommended for the freshman year. Foundation theory and skills courses may then be completed in the sophomore and junior years. The culmination of the BSW program is the Field Practicum Placement. Two consecutive practicum/seminar courses are required and constitute this culminating educational experience (SW 354 Seminar & Field Practicum I and SW 355 Seminar & Field Practicum II). Students develop their social work practice skills in a community agency under the direct supervision of a licensed social worker. Field Practicum Placement is arranged by the Field Practicum Office; more information about the Practicum Program can be found online: www.washburn.edu/social-work (<https://www.washburn.edu/social-work/>).

Specific goals, objectives, and outcomes for individual courses are available to students for review in the Department of Social Work's office, or from the respective faculty member responsible for an individual course or sequence. For more information, see the BSW Student Handbook.

Declaring Social Work as a Major

It is the policy of the Department of Social Work to assure equal educational opportunities to qualified individuals without regard to age, class, color, culture, disability, ethnicity, family structure, marital status, national origin, political perspective, race, religion, sex, sexual orientation, gender, gender identity, and/or expression. A student may opt to declare a major in social work, declare additional majors, and/or subsequently change majors at any time.

Most often, the declaration of major is completed when a student recognizes a significant interest in the social work profession and seeks academic advising from the Department of Social Work. Upon declaration, the student will be identified as a "Pre-BSW" major. The student is then provided an academic advisor from among the social work faculty. The faculty advisor assists the student in the selection of courses, and develops a curriculum plan. A student with a declared major in a field other than social work, or an undeclared undergraduate student, is allowed to enroll in all undergraduate social work department courses with the exception(s) of the practice sequence, (SW 352 Micro

Social Work Practice, SW 353 Macro Social Work Practice II) and the field practicum courses (SW 354 Seminar & Field Practicum I and SW 355 Seminar & Field Practicum II). These courses are only open to declared social work majors. In order to proceed into the field practicum, students must achieve "formal admission" to the BSW Program (see below).

Accreditation

The BSW program was granted full reaccreditation by the Council on Social Work Education (CSWE) in 20109 and has been reaccredited for eight years through the end of October 2027.

BSW Admissions

BSW Program Admission Policy Statement

"Declaring a major" in social work is not the same thing as "Formal Admission" to the BSW Program. Majors apply for Formal Admission to the BSW Program simultaneously with their Application for Field Practicum. This typically occurs in the fall semester prior to the beginning of the field practicum. The application forms and instructions are found on the department's website.

Requirements for Formal Admission to the BSW Program and the Field Practicum

Refer to the BSW Student Handbook on the Social Work Department website for a more detailed explanation of these requirements. Persons not meeting published admission requirements are encouraged to contact the department for more information. Basic requirements include:

- Current enrollment as a student in good standing at Washburn University as defined in the current Washburn University Catalog.
- Approved Declaration of Major (Pre-BSW) in Social Work (verified using the university's SCT Banner System).
- An overall (cumulative) grade point average of at least 2.5.
- Completion of a minimum of 36 hours of General Education course credits.
- Submission of a completed "BSW Application for (1) Formal Admission and (2) Field Practicum."
- If requested by the department, completion of an admissions interview with the BSW Program Director, the Social Work Department chair, or a social work faculty designee.
- If the Admissions Committee has any concerns about an application, references may be required upon written request of the BSW Program Director.

Please note that the following social work courses must be successfully completed (grade of C or better) prior to beginning the BSW Practicum:

Code	Title	Hours
SW 100	Introduction to Social Work & Social Welfare	3
SW 250	General Social Work Perspectives	3
SW 325	Micro Human Behavior & Social Environment	3
SW 326	Macro Human Behavior & Social Environment	3
SW 352	Micro Social Work Practice	3
SW 353	Macro Social Work Practice II	3

Field Practicum marks the start of a student's professional social work career in the community. Two consecutive semesters (Fall and Spring) of field experience in the same practicum placement are required. A practicum seminar class must be taken concurrently both semesters. A student must pass both practicum and seminar the first semester to proceed to the second semester.

Practicum begins during the first week of each semester, although some placements have an orientation before the start of Fall semester. Time in placement averages approximately 16 hours per week. The following is required: 240 hours per semester and 480 hours overall. Hours cannot be carried over into the next semester, nor can a student complete the practicum early.

BSW Degree Requirements

Requirements for graduation with a BSW from Washburn University include general education requirements and other requirements that are common across the University. For those requirements, please refer to the Programs, Degrees, and Graduation Requirements (p. 67) section in this catalog. The social work major consists of 51 hours of social work courses, which includes 12 hours of elective SW 390 Contemporary Issues in Social Work courses (i.e., four such social work electives). Credit is not granted for previous life experience. In addition to this core curriculum, the following "correlated courses" are required: AN 112 Cultural Anthropology, SO 101 Social Problems, 3 hours of Psychology, and 3 hours of Biology (which must include a significant component in human biology). A grade of "C" or better is necessary for all courses in the Social Work major, all required correlated courses, and other courses as specified in this University Catalog. No course requiring at least a "C" may be taken on a Pass/Fail basis. Also, approximately 20 hours of university-wide elective courses must be completed to reach the 120 credit minimum for the BSW degree. The ultimate responsibility for complying with all degree requirements rests with the student. Students are expected to review their current degree audit and academic plan before each consultation with their academic advisor.

Code	Title	Hours
SW 100	Introduction to Social Work & Social Welfare ¹	3
SW 250	General Social Work Perspectives ¹	3
SW 325	Micro Human Behavior & Social Environment ¹	3
SW 326	Macro Human Behavior & Social Environment ¹	3
SW 350	Social Policy and Programs	3
SW 352	Micro Social Work Practice ¹	3
SW 353	Macro Social Work Practice II ¹	3
SW 425	Pre-BSW Practicum Workshop ¹	0
SW 354	Seminar & Field Practicum I	6
SW 355	Seminar & Field Practicum II	6
SW 362	Social Work Research I	3
SW 363	Social Work Research II: App	3
SW 390	Contemporary Issues in Social Work ²	12
Total Hours		51

¹ Must successfully complete prior to beginning SW 354 Seminar & Field Practicum I.

² Taken four times

Students may complete SW 350 Social Policy and Programs, SW 362 Social Work Research I and SW 363 Social Work Research II: App, and SW 390 Contemporary Issues in Social Work, social work elective courses, concurrent with (or prior to) the Field Practicum. Occasionally, they will be completed after the Field Practicum.

Healthcare Social Work Concentration

Within the BSW program, students may choose to receive specialty training in healthcare social work. The concentration consists of three undergraduate electives (9 hours) plus a generalist practicum in an approved healthcare setting. Students selecting the healthcare concentration should notify their advisor of their intentions in order to ensure appropriate academic advising to meet the requirements.

Code	Title	Hours
SW 390	Contemporary Issues in Social Work	3
Select two of the following:		6
SW 357	Inclusive and Competent Social Work Practice in Healthcare	
SW 358	Family Decisions in Healthcare	
SW 359	Human Sexuality and Social Work Practice	
SW 360	Geriatric Social Work Practice	
Total Hours		9

Social Work, Minor

The Social Work minor requires completion of 15 credit hours, 9 hours of which are core courses and 6 hours of which are electives. Course work in the minor is taken for a letter grade and students must earn a minimum grade of C. The minor will expose students to core social work competencies. It emphasizes synthesis and application of social work theories, policies and research in the development of comprehensive solutions to major social problems.

Code	Title	Hours
Core		
SW 100	Introduction to Social Work & Social Welfare	3
SW 250	General Social Work Perspectives	3
Select one of the following:		3
SW 325	Micro Human Behavior & Social Environment	
SW 326	Macro Human Behavior & Social Environment	
SW 350	Social Policy and Programs	
Subtotal		9
Electives		
Social Work Electives		6
Subtotal		6
Total Hours		15

Associate Degree Programs with Washburn Institute of Technology

Washburn University offers a number of associate degree programs in cooperation with Washburn Institute of Technology (Washburn Tech).

Specific requirements for each major are listed below by program. Requirements for credit transfer from Washburn Tech include:

- Students must successfully complete all program requirements for the completion of the approved Washburn Tech certificate.
- Washburn Tech credit is posted on the Washburn transcript following completion of the approved Washburn Tech certificate and admission to Washburn University. Grades earned at Washburn Tech are then calculated into the student's Washburn University GPA.
- Washburn Tech students seeking to enroll at Washburn University must register for courses through the Dean's Office in the School of Applied Studies. For more information, contact the Dean's Office or visit www.washburn.edu/sas (<https://www.washburn.edu/sas/>).

Programs

- Culinary Arts, AA (p. 271)
- Design Technology, AA-AS (p. 271)
- Family and Human Services - Early Childhood Professional, AA (p. 272)
- Industrial Technology, AS (p. 272)
- Legal Studies, AA (p. 272)
- Office Administration, AA (p. 272)
- Surgical Technology, AS (p. 273)

Culinary Arts, AA

The Culinary Arts Associate of Arts Degree is offered with the Washburn Tech professional cooking program. This program prepares students to serve under the supervision of chefs and other culinary professionals. Instruction includes culinary math, food safety and sanitation, use and care of equipment as well as food preparation and cooking skills. Students will develop other essential skills including baking, purchasing, menu planning along with an introduction to restaurant supervision and management as well as the exploration of international cuisines. Upon graduation students will have the skills and confidence to be a productive member of any restaurant team.

Student Learning Outcomes

Students completing the Associate of Arts in Culinary Arts, upon graduation are expected to have:

- Demonstrated organized skills related to commercial food service.
- Demonstrated proficiency in the use of all technologies and tools essential to food service production.
- Explained food service preparation and delivery.
- Demonstrated safe food handling techniques.

Degree Requirements

Major Courses (48 Credit Hours)

- Culinary Arts (from Washburn Tech)

University and General Education Requirements

Correlate Courses

- TA 210 Technology Survey

Design Technology, AA-AS

The Design Technology Associate degree is offered with the Washburn Institute of Technology (Washburn Tech). There are two emphasis options; Technical Drafting and Graphics Technology. Students who have completed all requirements of Washburn Tech's Technical Drafting and Graphics Technology programs are eligible for this degree.

Each of the programs above are eligible for transfer to Washburn University as an emphasis in the Design Technology Associate of Arts or Associate of Science degree. Students must meet general education requirements appropriate to the associate degree, University requirements, and the correlate course, TA 210 Technology Survey, as part of the degree requirements.

Student Learning Outcomes

Students completing the associate degree in Design Technology, upon graduation, are expected to have:

- Demonstrated proficiency in the use of all technologies essential to the design concentration.
- Developed relevant design techniques to produce applied outcomes.
- Demonstrated professional applications in applied settings.
- Integrated skills and knowledge to situations or environments other than standardized classroom setting.

Degree Requirements for the Associate of Arts or Associate of Science in Design Technology Majors (from Washburn Tech)

- Technical Drafting (AS)
- Graphics Technology (AA)

Technical Drafting Emphasis

Major Courses (48 Credit Hours)

- Technical Drafting (from Washburn Tech)

University and General Education Requirements

Correlate Courses

- TA 210 Technology Survey

Graphics Technology Emphasis Major Courses (48 Credit Hours)

- Graphics Technology (from Washburn Tech)

University and General Education Requirements

Correlate Courses

- TA 210 Technology Survey

Family and Human Services - Early Childhood Professional, AA

Family and Human Services in Collaboration with Washburn Tech Early Childhood Professional, AA

Students who have completed an Early Childhood Professional Certificate at Washburn Institute of Technology may enter into an articulation agreement to earn their Associate of Arts in Family and Human Services at Washburn University.

This AA degree does not prepare students for licensing as a preschool teacher in Kansas. For information on teacher licensing, which requires a Bachelor degree, please contact Washburn's Education Department (<https://www.washburn.edu/education> (<https://www.washburn.edu/education/>)). However, students who go on to pursue a Bachelor degree in Family and Human Services in the Family Services track will meet the educational requirements to apply for national Certification in Family Life Education (CFLE) with the National Council on Family Relations.

This certification prepares students to work as family life educators in a variety of human services settings (e.g., child welfare agencies, youth programs, parenting programs, county extension offices, hospital education departments, senior centers, prevention programs, etc.).

Degree Requirements

In addition to the courses completed as part of the Early Childhood Professional Certificate, students will take Washburn University Requirements, General Education Requirements, and:

Code	Title	Hours
HS 100	Family and Human Services	3
HS 131	Human Development	3
HS 250	Skills for Helping Professionals	3
HS Electives		3

Industrial Technology, AS

The Industrial Technology Associate of Science degree is offered with the Washburn Institute of Technology (Washburn Tech). Students who complete all requirements in:

- Advanced Systems Technology (48);
- Automotive Collision (51);
- Auto Service Technician (52);
- Cabinet and Millwork (48);
- Climate and Energy Control Tech (44)
- Commercial and Heavy Construction (43);
- Diesel Technology (49);
- Heavy Diesel Construction (51);
- Machine Tool (48);
- Welding (48)

are eligible certificate programs for the associate of science degree.

Student Learning Outcomes

Students completing the Associate of Science in Industrial Technology, upon graduation, are expected to have:

- Demonstrated proficiency in the use of all technologies and tools essential to the concentration.
- Practiced techniques related to safety and health concerns.
- Compared basic theoretical concepts of the technology.
- Demonstrated relevant technique to applied outcomes.
- Integrated skills and knowledge to situations or environments other than standardized classroom.

Degree Requirements

Each of the listed programs are eligible for transfer to Washburn University as an emphasis in the Industrial Technology Associate of Science degree. Students must meet general education requirements appropriate to the associate of science degree and the correlate course, TA 210 Technology Survey, as part of the degree requirements.

Legal Studies, AA

Legal Studies Associate Degree Options with Washburn Institute of Technology

Washburn University offers the associate of arts degree in Legal Studies. Students who have completed coursework in the Legal Office Professional Program at Washburn Tech will receive 48 hours of college credit toward the associate of arts degree. At Washburn, the Legal Studies option requires an additional 39 hours of general education/university courses and legal studies program courses to receive the associate of arts degree.

Degree Requirements

To complete the degree, Washburn Tech graduates must complete the following major, correlate courses and University and General Education requirements at Washburn:

Major and Correlate Courses (15 hours)

Code	Title	Hours
LG 101	Introduction to Legal Practice	3
LG 200	Introduction to Law	3
LG 250	Legal Research I	3
LG 305	Litigation I	3
LG 310	Interviewing & Investigation	3

For a suggested curriculum please see your advisor; for course descriptions see the Criminal Justice & Legal Studies Department (p. 245).

Office Administration, AA

Students who graduate with a completed certificate from Washburn Institute of Technology in Business Bookkeeping and Accounting, Legal Office Professional, and/or Medical Office Professional may graduate with an associate of arts degree in the following.

Student Learning Outcomes

Office Administration students at Washburn University, upon graduation, are expected to have:

- Demonstrated proficiency in composing, formatting, and editing written communications.
- Demonstrated technical proficiency of all the skills necessary to fulfill their professional discipline.
- Analyzed the basic principles of management theory in relation to the office environment.
- Applied interpersonal skills to develop effective working relationships and to function as a member of the office team.
- Utilized problem solving and critical thinking skills in performing office procedures.
- Applied appropriate business protocol, ethics, and office etiquette.

Degree Requirements

Students who have completed coursework in Business, Bookkeeping, and Accounting certificate, Legal Office Professional certificate, or the Medical Office Specialist certificate at Washburn Tech receive 48 credits toward the associate of arts degree. Students graduating from any of these three certificate programs at Washburn Tech are eligible to complete the associate of arts degree in Office Administration. Students must complete all University and General Education requirements appropriate to the associate of arts degree. In addition, the required correlate course, TA 210 Technology Survey, is required of all graduates in the Office Administration associate degree.

Surgical Technology, AS

Degree Requirements

(Associate of Science with Washburn Institute of Technology)

The Associate of Science degree in Surgical Technology is offered to students who have been admitted to the WUTech Surgical Technology program. To complete the degree at Washburn University students must complete Washburn University Residency requirements. The 15 credit hour rule is met by the completion of the 6 credit hours of WU required correlate courses (AL 320 Human Disease and AL 101 Foundations of Healthcare) and 9 credit hours of ST credit hours. The requirements are listed below.

Code	Title	Hours
Major Courses		
Surgical Technology (from Washburn Tech)		53
Subtotal		53
Correlate Courses		
AL 101	Foundations of Healthcare	3
AL 320	Human Disease	3
Subtotal		6
University and General Education Requirements		24
See requirements common to all Associate Degrees.		
Subtotal		24
Total Hours		83

School of Business

Website: www.washburn.edu/business (<https://www.washburn.edu/business/>)

Faculty

- David L. Sollars, PhD, Dean and Professor
- Russell E. Smith, PhD, Associate Dean and Professor
- Thomas Hickman, PhD, Associate Professor and MBA Director
- Barbara Scofield, PhD, Professor and MAcc Director
- Robert Hull, PhD, Professor and C.W. King Chair of Finance
- Norma Juma, PhD, Professor and Brenneman Professor of Business Strategy
- James Martin, MProf/Acc, Senior Lecturer, Snyder Distinguished Lecturer in Business
- Louella Moore, PhD, Professor and Mosso Professor of Accounting
- Pamela Schmidt, PhD, Associate Professor and Dibble Professor of Accounting
- Michael Stoica, PhD, Distinguished Professor of Marketing
- JuliAnn Mazachek, PhD, Associate Professor and Vice President for Academic Affairs
- Jennifer Ball, PhD, Professor and Associate Vice President for Academic Affairs
- Robert Boncella, PhD, Professor Paul Byrne, PhD, Professor
- Sungkyu Kwak, PhD, Professor Dmitri Nizovtsev, PhD, Professor
- Rosemary Walker, PhD, Professor
- Gail Hoover King, EdD, Visiting Professor
- Liviu Florea, PhD, Associate Professor
- David Price, PhD, Associate Professor
- Sunita Rao, PhD, Associate Professor
- Shane Van Dalsem, PhD, Associate Professor
- Akhadian Harnowo, PhD, Assistant Professor
- Manaf Sellak, PhD, Assistant Professor
- Jayme Burdick, MBA, Lecturer
- Richard LeJuerrne, JD, Lecturer

Kansas Small Business Development Center at Washburn University:

- Karl Klein, Director, Lecturer
- Laurie Pieper, Assistant Director
- Cris Millard, Administrative Specialist
- Mary Ann Riederer, Consultant
- Tom Byler, Contract Tech Advisor

Mission

We provide high quality business education, supported by research and service activities, that enhances the economic vitality of the region. The School:

- Offers current, student-centered degree programs at the undergraduate and graduate level for students that will prepare them for career success and life-long learning in a global society.
- Engages in research that enhances our classroom teaching, assists practitioners, and advances knowledge in the business disciplines.
- Fosters integrity, inclusiveness, mutual respect, and ethical behavior as requisites to business practice.

- Prepares students to make informed decisions in a data-rich environment.
- Serves as a catalyst for economic development of the region through our Small Business Development Center, the Washburn Entrepreneurship Program, and other collaborative partnerships.
- Provides faculty, staff, and student services to professional and civic organizations.

The Washburn University School of Business and its Bachelor of Business Administration, Master of Accountancy, and Master of Business Administration degree programs are accredited by AACSB International - The Association to Advance Collegiate Schools of Business.

School of Business Values Statement

Stakeholders of the Washburn School of Business including, but not limited to, faculty, students, and administrators, should expect their interactions with other stakeholders and stakeholder groups to be guided by principles, including, but not limited to, honesty, trust, fairness, respect, integrity, and responsibility.

Honesty - Honesty is the cornerstone of the other fundamental program values. There can be no trust, fairness, respect, integrity, or responsibility without honesty. Honesty creates the possibility for quality teaching, learning, academic research and communication between individuals.

Trust - Trust results from a culture of honesty. Trust provides the foundation for an environment that nourishes creativity and risk-taking in teaching, learning, and scholarship, and is essential to Washburn University's pursuit of quality human development and "learning for a lifetime."

Fairness - A sense of fairness emerges when standards, policies, and procedures are equitable, clear, and in the best interest of all stakeholders. Without fair processes, the learning environment cannot sustain trust and honesty. Fairness ensures that all stakeholders have the opportunity to succeed, and provides a foundation for mutual respect among stakeholders.

Respect - A university environment focused on the creation and transmission of knowledge requires interaction and participation by all stakeholders. Quality interaction is facilitated when stakeholders display respect for one another. When stakeholders are treated fairly and honestly, they are better able to trust one another, which leads to a culture of mutual respect.

Integrity - Stakeholders of the Washburn School of Business conduct themselves with integrity when teaching, learning, research, communication, and other interactions are conducted in accordance with the principles of honesty, trust, fairness and respect.

Faculty act responsibly when they:

- Maintain currency in their field.
- Freely share their knowledge with students.
- Develop coursework that is focused, relevant, and coherent and adds value to students' career skills and ambitions.
- Critically assess students' work in a constructive and rigorous manner.
- Challenge students to grow intellectually and professionally.
- Create an environment that is conducive to learning.

- Assist students in understanding the requirements and expectations of their degree programs.

Students act responsibly when they:

- Properly prioritize their commitments to the program.
- Manage their work and family responsibilities so they may attend class and be fully engaged in other program activities and requirements.
- Understand the requirements and expectations of their degree programs and plan their class schedules consistent with these expectations.
- Accept criticism in a professional manner and with the understanding that such feedback is designed to improve their business skills and critical thinking.
- Arrive at each class session prepared.
- Contribute substantively to the classroom dialogue.
- Approach the course material thoughtfully.

At the time of declaration of a major in the School of Business and at the time of application for admissions to the School of Business, students are asked to affirm that they have read and understand the Washburn School of Business Values Statement and agree to practice and abide by these values while they are stakeholders of the School.

Washburn University Academic Misconduct Policy

All students are expected to conduct themselves appropriately and ethically in their academic work. Inappropriate or unethical behavior includes (but is not limited to) giving or receiving unauthorized aid on examinations or in the preparation of papers or other assignments, knowingly misrepresenting the source of academic work. Washburn University's Academic Impropriety Policy describes academically unethical behavior in greater detail and explains the actions that may be taken when such behavior occurs.

For guidelines regarding protection of copyright, consult www.washburn.edu/copyright/ (<https://www.washburn.edu/copyright/>). For Academic Impropriety Policy, go online to: www.washburn.edu/academic-impropriety/ (<https://www.washburn.edu/academic-impropriety/>). For Student Conduct and Disciplinary Code, go online to: www.washburn.edu/student-conduct/ (<https://www.washburn.edu/student-conduct/>).

Undergraduate Program Core Competencies

To implement the mission of the School, the faculty has adopted the following undergraduate program core competencies as broad instructional goals of the BBA program:

Business Knowledge: Students will be able to demonstrate a broad knowledge of business constructs across all the basic, functional areas of business and economics.

Written and Oral Communication Abilities: Students will be able to write with clarity, verbalize concisely, and clearly present ideas.

Problem-Solving Abilities: Students will be able to define and analyze diverse problems; and organize and interpret information in order to draw and support conclusions.

Ethical Decision-Making Abilities: Students will be able to differentiate between ethical and unethical behavior and integrate

ethical understanding and societal responsibility into decision-making.

Global Awareness: Students will understand the impact of participation in the global economy on business conduct and performance as well as the effects of business actions on that economy.

Technology Abilities: Students will be able to apply technology in order to solve business problems and explain how technology supports the strategic goals of organizations.

Degree, Minor, and Certificate Programs

The School of Business was established on July 1, 1973, by action of the Board of Regents. In 1946, the Bachelor of Business Administration (BBA) degree was created. The Master of Business Administration (MBA) degree was implemented in 1982 and the Master of Accountancy began in 2013. Undergraduate students may earn the Bachelor of Business Administration (BBA) degree with a major in Accounting, Business Data Analytics, Economics, Entrepreneurship and Innovation, Finance, International Business, Management, Marketing, and General Business, the Minor in International Business, the Minor in Economics, the Certificate in Entrepreneurship, and the Kansas Insurance Certificate. Undergraduate students outside of the School of Business may earn the Minor in Business, the Minor in Economics, the Minor in International Business, the Certificate in Entrepreneurship, and the Kansas Insurance Certificate. Students pursuing the BBA are not eligible for the Minor in Business.

Scholarships

In recognition of the quality of School of Business programs, many alumni, individuals, and organizations have given generously to support worthy students with financial aid. For information and applications, please contact the Director of Financial Aid or the Office of the Dean, School of Business, Washburn University. To be considered for the scholarships administered by the School of Business, either as new or continuing recipients, students must make direct application to the School of Business each year; the normal deadline is February 15.

School of Business Honors

Candidates for the Bachelor of Business Administration degree may qualify for School of Business Honors provided the following criteria are met:

1. Accumulate a grade point average (GPA) of at least 3.50 in all accounting, business, and economics courses applied to the BBA degree; and
2. Demonstrate superior research and/or independent study skills while enrolled in Business 405; and
3. Be approved for honors designation by a two-thirds vote of the School of Business faculty.

In fulfilling conditions (2) and (3), the student will be expected to provide any academic data requested and to provide the School with an extra copy of written work prepared for credit in Business 405. Written notice of intent to graduate with honors must be submitted by the student to the Office of the Dean, School of Business early in the semester in which the student expects to graduate. This written notice is separate from any reporting requirements in place when Business 405 is taken as part of the Washburn Transformational Experience (WTE) program.

School of Business Scholars

Students graduating with the Bachelor of Business Administration degree will be awarded the designation of School of Business Scholar provided they have accumulated a GPA of at least 3.50 in all accounting, business, and economics courses and rank in the upper quartile of the Washburn University graduating class. Students graduating with the Bachelor of Arts degree with a major in economics will be awarded the designation of School of Business Scholar provided they have accumulated a GPA of at least 3.50 in the economics coursework used to meet the requirements of the major and also in all upper-division coursework used to meet the requirements of the degree.

Dean's and President's Honor Rolls for Undergraduates

In order to be included on the Dean's Honor Roll, School of Business, a student must:

- Have been admitted to, and be in good standing with, the School of Business, and
- Have completed at least twelve graded semester hours with a GPA of at least 3.40 during the immediately preceding semester.

Students who have completed at least 12 graded semester hours with a GPA of 4.00 during the immediately preceding semester will be included on the President's Honor Roll.

Internships

The School of Business has developed an internship program that is constantly in demand by successful area businesses. School of Business students have the opportunity to select from internships in many industries. Starting in their junior year, students may earn credit toward their degree and also acquire job market skills for employment. Both the student intern and the employer are required to file progress reports with the internship coordinator on a regular basis. Internship credit hours are graded on a pass/fail basis only and do not count as electives to meet requirements for the majors. For further information, interested students should consult with the Director of Student Affairs in the School of Business. Descriptions of the programs are provided in the course listings of this catalog under AC 499 Internship In Accounting, BU 499 Internship in Business, and EC 499 Internship in Economics. The total number of credits for a School of Business internship may not exceed three (3) semester hours.

Study Abroad

Juniors or seniors may satisfy part of their degree requirements while spending one or two semesters in approved study abroad programs that place special emphasis on international business and economics. Washburn participates in the Magellan Exchange, a business school oriented program with about ten universities in Western Europe, and in the Consortium of North American Higher Education Collaboration (CONAHEC), a consortium of almost 50 schools in Canada, Mexico, and the United States. Washburn also has a number of other international partnerships, including exchange agreements with:

- Denmark International Studies (DIS), Copenhagen
- Fukuoka University, Japan
- Lower Danube University, Romania
- Orebro University, Sweden
- SNSPA, Romania

- Tongji University, Shanghai
- University of Claremont-Ferrand, France
- University of Cambridge, England
- University of Klagenfurt, Austria
- Wuhan University of Science and Technology, China

Programs of study in many other countries can be arranged. For further information contact the Office of the Dean, School of Business or the Study Abroad Advisor, Washburn University.

Student Organizations

The School of Business feels that in order for our students to succeed they must develop communication and networking skills. To cultivate these skills the School of Business supports several student organizations that students can join for both camaraderie and learning. For a full listing, description, and contact information, please consult the School's web site at www.washburn.edu/business (<https://www.washburn.edu/business/>).

Kansas Small Business Development Center at Washburn University and BRITE Center

The Kansas Small Business Development Center at Washburn University (KSBDCWU) provides free, confidential, one-on-one counseling for small business owners or potential owners in the Northeast Kansas counties of Brown, Clay, Dickinson, Geary, Jackson, Marshall, Nemaha, Pottawatomie, Riley, Shawnee, Wabaunsee, and Washington. The KSBDCWU also offers low-cost seminars and training programs and utilizes a wide variety of resources including online and Internet databases to help small businesses obtain the timely, detailed, and relevant information necessary to make sound business decisions. The services of the KSBDCWU are available to all start-up or existing small businesses.

KSBDC at Washburn University and BRITE Center
719 S. Kansas Avenue
5th Floor, Suite 100
Topeka, KS 66603
785-215-8375

KSBDC at Washburn University (co-located with the Manhattan Area Chamber of Commerce)
501 Poyntz Avenue
Manhattan, KS 66502
785-587-9917

KSBDC at Washburn University Glacial Hills Outreach Center
334 2nd Street
Wetmore, KS 66550
785-276-9246

The web site is www.washburn.edu/sbdc (<https://www.washburn.edu/sbdc/>).

Application for Degree

Early in the semester of graduation, students planning to graduate must file an Application for Degree form in the Office of the University Registrar in order to initiate a graduation check. The form should be filed in September for the Fall semester and in February for the Spring semester and the Summer term. A student is not a Candidate for Degree until the University Registrar's Office has the form on file and the candidacy

has been approved. Students applying for graduation should process a degree audit upon enrollment for the final semester and again at the beginning of final semester to ensure that all degree requirements will be met. All questions, uncertainties, and potential anomalies should be brought to the attention of an advisor in the School of Business. Students should process a degree audit after enrollment for the intended final semester, but before the final semester begins, to ensure that all degree requirements will be met.

Advising

It is important that any student who intends to work toward the Bachelor of Business Administration degree be advised by a member of the School of Business faculty or by an academic advisor in the School of Business. Faculty will assist students in selecting a major and in planning their academic schedules. Freshman, sophomore, and transfer students will need to consult initially with an academic advisor in the School of Business office, especially with regard to transfer credit. The School of Business reserves the right to evaluate any credit hours offered for transfer relative to the current standards before accepting or rejecting such hours. Once established in the program, these students should pursue advising from School of Business faculty.

Students should have reviewed their academic transcript and processed a degree audit through MyWashburn before visiting with their advisor. The purpose of the degree audit is to identify for students the remaining requirements necessary to complete their degree program. While the degree audits are unofficial, they should be an accurate reflection of the student's academic progress. If the student believes his or her audit or transcript is incorrect, the question should be brought promptly to the attention of an advisor in the Dean's office. All transfer courses should be evaluated no later than the first semester of enrollment at Washburn.

The School of Business provides advising literature and materials explaining program requirements and requires the student to consult with an advisor during the enrollment process. The student, however, has the ultimate responsibility for understanding the requirements of his/her degree program and for ensuring that the program requirements, including course prerequisites, are met in order and on a timely basis. Program and advising information is available through this catalog, the School's web site, and separate information sheets.

Prerequisite Policy for Students in School of Business Courses

It is the responsibility of all students, including degree-seeking, visiting, and non-degree-seeking students, enrolled in School of Business courses, regardless of major or degree program, to observe the published prerequisites for the course. Visiting students including exchange students, or their sponsoring organizations, will need to present official documentation that prerequisites have been met. Students not majoring in one of the majors in the BBA degree may request permission in the Dean's Office to enroll in 400-level accounting (AC) and (BU) courses if they have achieved standing in their own programs comparable to admission to the School of Business. For a prerequisite requirement to be met, the prerequisite course must be successfully completed with a grade of "C" or better. If subsequent to enrollment a student no longer meets the course prerequisite requirements, the student is required to withdraw from the course without delay; if not, the student is subject to administrative withdrawal from the course at any time. Any questions should be directed to an advisor in the School of Business office. **Note:**

The prerequisites of a course include the prerequisites of its prerequisite courses.

Repetition of Courses

Undergraduate courses may be repeated. The transcript will contain a complete record of all courses taken and grades earned. Courses for which grades of Ds and Fs are recorded can be retaken without departmental approval; courses for which a grade of C, or pass, or higher are recorded will require departmental approval from the department or school offering the course. Approval is required before enrollment. The transcript will contain a complete record of all courses taken and grades earned. The repeated and not the original grade will be included in determining the cumulative grade point average. However, after a student has repeated the same course three times, or has repeated three different courses, that student must have the permission of his/her academic dean before repeating any course. In the School of Business, requests to repeat courses under these policies should be directed to the associate dean. In cases where an excessive repeat (ER) hold has been put in place, the student should expect to be advised by the associate dean until all relevant courses have been successfully completed. Enrollment before the completion of the previous semester is at the discretion of the associate dean.

Transfer Course Preapproval Requirement

Washburn business majors who wish to take classes at another institution to meet their degree requirements at Washburn must receive prior approval. Guidelines and application forms are available in the School of Business office.

Preparation for Further Study at the Graduate Level

Students considering graduate study in accounting, business, or economics are encouraged to take mathematics beyond the current minimum requirement, including MA 142 Applied Calculus II or appropriate higher level mathematics courses, such as MA 151 Calculus & Analytic Geometry I or MA 152 Calculus & Analytic Geometry II.

Outcome Assessment and Assurance of Learning

The Washburn University School of Business, as part of its continuous improvement efforts and consistent with the requirements of Washburn University, the Higher Learning Commission, and AACSB International—The Association for the Advancement of Collegiate Schools of Business, at intervals administers surveys and tests to its students, graduates, staff, and external constituents. We encourage all of those contacted to support our continuous improvement efforts by participating in these surveys and tests. For currently enrolled students, the tests and surveys may be required as part of coursework, or as program and degree graduation requirements separate from coursework, and are independent of the catalog under which the student intends to graduate. Tests may be administered during regularly scheduled classes, or at other times separate from class meeting times, including on Saturdays; an assessment fee may be charged.

Pass/Fail Policy

Candidates for the BBA degree in Business Administration must earn a grade of “C” or better in all required courses and may not take required courses pass/fail. These required courses include required courses

offered by the School of Business, courses offered by the School of Business used to meet School of Business requirements, and courses offered outside of the School of Business required as correlate courses for the BBA degree including CN 150 Public Speaking, MA 140 Statistics, MA 141 Applied Calculus I, AN 112 Cultural Anthropology, PY 100 Basic Concepts in Psychology, and SO 100 Introduction to Sociology, as well as classes used to meet the English elective requirement. In the event a student has pass/fail credit in a required course before admission to the School, the student may be required, as a condition of admission, to take an alternative course or courses for regular credit to fulfill such requirements. Similarly, alternative courses might be required if a required course is taken pass/fail after admission to the School.

Second Bachelor Degrees and Second Concentrations

Students who have already completed a BBA degree from Washburn University may earn an additional major within the BBA. However, they must satisfy the specific BBA degree requirements under a catalog that is still in effect at the time the additional major is awarded (which may not be their original catalog). This includes all correlate, core, and major-specific courses listed under specific degree requirements. Students seeking an additional major within the Washburn BBA should seek advice about course scheduling and sequencing and develop an appropriate graduation plan. Students who have a Washburn bachelor degree in an area other than business and are seeking the BBA as an additional Washburn degree must also present a minimum of a total of 154 hours of credit and will need to satisfy all the specific business degree requirements. Similarly, they should seek advice about course scheduling and sequencing and develop an appropriate graduation plan.

If the student has completed a bachelor degree in business outside of Washburn University, then the student must also satisfy the School’s residency requirement. To meet School of Business residency, at least 50 percent of the accounting, business, and economics hours presented for the BBA degree must be completed at Washburn University. All students will be required to complete the BU 449 Strategic Management course, the capstone of the BBA program, and the specific degree requirements including the requirement that 51 hours be completed in general education areas or coursework offered by the Computer Information Sciences Department. When the previous business degree is from an AACSB International-accredited business school, the business core requirements normally will be considered to have been met with the exception of BU 449 Strategic Management assuming appropriate grades and that prerequisites have been met for courses to be taken at Washburn. In all other cases, transfer credit will be evaluated on a course-by-course basis. Any candidate for a second baccalaureate degree must present a minimum of 154 hours of credit.

In the case where the student holds an MBA degree, an additional 30 hours of undergraduate coursework must be completed beyond the hours earned to meet the requirements of the first bachelor degree and the MBA degree. Previously taken MBA foundation coursework may be used to satisfy specific BBA requirements; these hours will be evaluated on a course-by-course basis. However, upper-level graduate hours may not be used to meet BBA residency, nor the 30 hours past the MBA. Because of the uniqueness of these situations, students should seek early advice and analysis of their coursework from the School of Business office.

Academic Advising and Admission Requirements

As stated in the School of Business Values Statement (above), students are expected to act responsibly in their academic programs and to “understand the requirements and expectations of their degree programs and plan their class schedules consistent with these expectations.” More concretely, students pursuing a major within the Bachelor of Business Administration degree program have the ultimate responsibility for understanding the requirements of their degree programs, including potential scheduling conflicts between majors, for monitoring their own progress in the program, and for ensuring that the program requirements, including course prerequisites, are met in order and on a timely basis. Students are expected to understand the program requirements as outlined in this catalog and in the advising materials. In planning their class schedules, students are expected to observe basic advising principles, including course prerequisites, as well as to consult with an advisor within the School of Business to clarify any doubts. Course prerequisites are considered met when the prerequisite course is complete with a grade of “C” or better. Where needed, the students should prepare transfer course petitions in accord with the procedures below. Students should process a degree audit prior to every advising session and subsequent enrollment. Other requirements are found in the Graduation Requirement section (below). **Note:** The prerequisites of a course include the prerequisites of its prerequisite courses.

Transfer Credit

The School of Business reserves the right to evaluate any credit hours offered for transfer relative to the current standards before accepting or rejecting such hours to meet School of Business requirements. In accord with business accreditation standards, academic work accepted from other institutions should be comparable to that in the degree programs of the School of Business. Students should be prepared to provide catalog course descriptions and course syllabi to the School of Business. Official transcripts of all coursework should be sent directly to Washburn University Registrar. To facilitate advising and schedule planning, this review of transfer courses should be completed during the first semester of enrollment. Transfer courses that might meet University degree requirements, including general education requirements, if the transfer courses are not already on the Washburn University Transfer Guides, will need to be reviewed by the department of the discipline of the course or by the University General Education Committee. Students will need to petition for approval of the course no later than the second semester of enrollment and will need to provide catalog course descriptions, syllabi, and other information as required by the “General Education Transfer Course Petition” available on the Vice President for Academic Affairs website. Petitions should be prepared by the students and submitted through the students’ academic advisors.

International Transfer Credit

International students with transfer credit from non-U.S. institutions must provide original transcripts that should have detailed addresses of the issuing school for verification. If originals cannot be submitted, attested certified copies of transcripts must be sent to Washburn by the issuing school on the school’s official envelope and stationary. All university level foreign transcripts must be evaluated by a Washburn University-recognized evaluation service (e.g. Education Credential Evaluators (ECE) or World Education Services (WES)). A “course-by-course” report is required. Cost of this evaluation is borne by the student. Applications can be obtained from their respective websites (www.ece.org ([https://](https://www.ece.org)

www.ece.org) for ECE and www.wes.org (<https://www.wes.org>) for WES). Completed evaluations should be sent directly by the evaluation agency to the Office of International Programs at Washburn University. (<https://www.washburn.edu/academics/international-programs/international-students/Transcript%20Requirements%20-%20for%20website.pdf2019> (<https://www.washburn.edu/academics/international-programs/international-students/Transcript%20Requirements%20-%20for%20website.pdf2019/>))

As in the case of courses transferred from the U.S. institutions, courses in accounting, business, and economics not already on the transfer guides will need to be reviewed by the School of Business. In the case of courses that might meet the University degree requirements, including the general education requirements, the courses need to be reviewed by the University General Education Committee or by the chair of the department of the course. To facilitate advising and schedule planning, the School of Business review process should be completed in the first semester of enrollment at Washburn. General education courses should be petitioned for approval no later than early in the second semester of enrollment. In both cases the process starts with the posting of the results of the ECE or WES evaluation on the student’s Washburn University transcript and degree audit. For students who have completed a baccalaureate degree or associate degree with a similar duration as a domestic baccalaureate degree or associate degree from an accredited international institution, courses satisfactorily completed in the Arts and Humanities, Social Sciences, and Natural Sciences and Mathematics will be accepted for credit in the appropriate general-education area

International transfer courses completed outside of a completed degree program will need to be reviewed individually by the relevant department chair or by the University General Education Committee. The students should provide catalog course descriptions, syllabi and other information as required by the “General Education Transfer Course Petition” available on the Vice President for Academic Affairs website. Students who wish to enter School of Business programs from the Washburn University’s Intensive English program should move quickly to provide these materials, especially for courses needed for prerequisites or admission to the School of Business. Petitions should be prepared by the students and submitted through the students’ academic advisors. www.washburn.edu/academics/international-programs/international-students/gen%20ed%20transfer%20petition (<https://www.washburn.edu/academics/international-programs/international-students/gen%20ed%20transfer%20petition/>)

Basic Advising Principle

The basic advising principle is that among courses required by the School of Business 100-level courses should be completed before 200-level courses, which should be completed before 300-level courses, which should be completed before 400-level courses. However, several general education courses should be saved until the end in order to be able to complete a class schedule when business courses are of limited availability. While the upper-division business requirement beyond the upper-division business core has room for two major areas of concentration in most cases (excluding accounting), students should not expect to complete the requirements of both in the same semester and should plan carefully to avoid class conflicts.

An early goal should be prompt admission to the School of Business. Requirements for admission are completion of 54 hours, MA 141 Applied Calculus I, and the six admission courses offered by the School of Business. These six courses are:

Code	Title	Hours
AC 224	Financial Accounting	3
AC 225	Managerial Accounting	3
BU 250	Management Information Systems	3
EC 200	Principles of Microeconomics	3
EC 201	Principles of Macroeconomics	3
EC 211	Statistics for Business and Economics	3

Each of these courses need to be taken for a grade with a grade of “C” or better. Upon admission to the School, students are permitted to take 400-level courses in accounting and business, subject to meeting the other prerequisites. No more than 30 hours of AC and BU coursework may be taken before admission to the School of Business.

Administratively, there are four steps in a student’s progress to the Bachelor of Business Administration (BBA) degree, apart from the course work and the separate applications for scholarships and financial aid, which need to be initiated by the student. These steps include:

1. application to Washburn University as a degree-seeking student,
2. declaration of major,
3. admission to the School of Business, and
4. application for the degree.

At the time of the application for the degree, the student should undeclare any major no longer being pursued.

Application to Washburn University as a Degree-seeking Student

Students who first enroll at Washburn University as a visiting or non-degree-seeking student and then decide to seek a Washburn degree must then apply for admission to the University as a degree-seeking student and be admitted in order to receive the benefits of degree-seeking status.

Declaration of Major Area of Concentration/Degree/Catalog Year

Early in their program of study, all students interested in earning the Bachelor of Business Administration degree should declare their degree goal and major area of concentration. Declarations of major program are done in person at the School of Business office by filling out and turning in the “Declaration of Major Program Form.” After the declaration of major program has been approved and the faculty advisor has been assigned, the students should meet with the faculty advisor for enrollment advising and to plan their academic program. This procedure also applies to changes of major program and declarations of an additional major program. The concentrations available within the BBA degree are accounting, entrepreneurship and innovation, economics, finance, international business, management, marketing, and general business. Students interested in the BBA degree but who have not yet decided on a concentration initially can declare a concentration in general business and then later change their declaration to align with their final decision. Declaring a major is not the same as being admitted to the School of Business. A declaration of major is simply a statement of student intentions which also establishes an advising relationship. To be admitted to the School of Business, students must satisfy the conditions for admission detailed under Application for Admission to the School of Business below.

Application for Admission to the School of Business

Upon completion of 54 semester hours of college credit, MA 141 Applied Calculus I, and the six required lower-division School of Business courses, students should apply for admission to the School of Business. Each course must be taken for a grade and a grade of “C” or better must be earned in each course. The seven courses required for admission:

Code	Title	Hours
AC 224	Financial Accounting	3
AC 225	Managerial Accounting	3
BU 250	Management Information Systems	3
EC 200	Principles of Microeconomics	3
EC 201	Principles of Macroeconomics	3
EC 211	Statistics for Business and Economics	3
MA 141	Applied Calculus I	3

MA 343 Applied Statistics may be substituted for EC 211 Statistics for Business and Economics. A minimum of 30 semester hours must be earned after being admitted to the School of Business. Admission to the School of Business is a requirement for enrolling in BU 449 Strategic Management, the capstone course of the BBA degree as well as all 400-level accounting (AC) and business (BU) courses. As part of the application for admission to the School of Business and prior to each semester’s advising, students are asked to process a degree audit and to confirm that all transfer credit is correctly posted. Students should file an application for admission with the Office of the Dean of the School of Business as soon as the student becomes eligible to apply. Students are limited to no more than 30 credit hours of accounting and business courses without being admitted to the School of Business. Upon admission students should process a degree audit to determine the remaining courses and to develop a plan to graduation.

Graduation Requirements

Graduation Requirements for the Bachelor of Business Administration (BBA) Degree

1. Requirements Common to all Bachelor Degrees

The student must meet the requirements common to all bachelor degrees established by the University. These requirements include the core requirements in freshman and advanced composition and in mathematics, as well as the general education distribution requirements in the areas of Arts and Humanities, Mathematics and Natural Sciences, and Social Sciences. The general education distribution requirement for the BBA degree is nine hours in each of the three areas and is partially met by the correlate courses required for the BBA degree. For a description of the University general education requirement, see Requirements Common to all Bachelor Degrees in the index.

2. Specific Degree Requirements

A minimum of 120 semester hours is required for graduation with the BBA degree.

BBA candidates must complete the following required correlate courses with a grade of “C” or better:

Code	Title	Hours
Correlate Courses		
MA 140	Statistics	3
MA 141	Applied Calculus I	3

CN 150	Public Speaking	3
Select two of the following:		6
AN 112	Cultural Anthropology	
PY 100	Basic Concepts in Psychology	
SO 100	Introduction to Sociology	
Select one of the following:		3
EN 103	Academic Reading & Research	
EN 131	Understanding Short Fiction	
EN 145	Shakespearean Afterlives	
EN 207	Beginning Nonfiction Writing	
EN 208	Professional Writing	
EN 209	Beginning Fiction Writing	
Total Hours		18

All of these courses can be used to meet a University general education area requirement as well. In meeting the 51-hour requirement, BBA candidates must complete an additional three-hour course in one general education distribution area beyond the nine hours required in each of the three distribution areas.

The following School of Business courses must be completed by all candidates for the BBA degree. These courses include seven lower-division courses and seven upper-division courses for a total of 42 semester hours.

Code	Title	Hours
Lower-division Core		
AC 224	Financial Accounting	3
AC 225	Managerial Accounting	3
BU 248	Foundations of Data Analysis	3
BU 250	Management Information Systems	3
EC 200	Principles of Microeconomics	3
EC 201	Principles of Macroeconomics	3
EC 211	Statistics for Business and Economics	3
Upper-division Courses		
BU 315	Legal Environment of Business	3
BU 342	Organization & Management	3
BU 347	Production and Operations Management	3
BU 360	Principles of Marketing	3
BU 381	Business Finance	3
BU 449	Strategic Management	3
Select one of the following:		3
BU 355	International Business ¹	
EC 410	International Economics ¹	
BU 477	International Finance ¹	

¹ BU 355 International Business, EC 410 International Economics, and BU 477 International Finance cannot be used to meet both the core requirement and the requirements of a major area of concentration.

A grade point average of at least 2.0 is a prerequisite for enrollment in the six upper-division business courses required of all BBA students (BU 315 Legal Environment of Business, BU 342 Organization & Management, BU 347 Production and Operations Management, BU 360 Principles of Marketing, BU 381 Business Finance, and BU 449 Strategic Management), as well as for enrollment in EC 300

Microeconomic Analysis and EC 301 Macroeconomic Theory. Prerequisites are met only by successfully completing a prerequisite course with a grade of "C" or better. A student must be admitted to the School of Business to enroll in 400-level accounting (AC) and business (BU) courses.

BBA candidates must complete an additional 24 hours of upper-division coursework offered by the School of Business. This may be done in either of the following ways. A student may select courses from a number of subject areas within the School of Business and receive a BBA with a major area of concentration in general business. Alternatively, a student may complete one (or more) of the following concentrations within the 24 semester hours. These concentrations are accounting, entrepreneurship and innovation, economics, finance, international business, management, and marketing. The specific requirements of each of these concentrations are found below. When two major areas of concentration are selected, the student should seek advice from faculty member in both major areas and prepare a graduation plan two semesters before the intended graduation date to check for feasibility.

A grade of C or better must be earned in each course required by the School of Business and in each additional required course applied to a major area of concentration, including courses used to meet the 24-hour upper-division requirement noted above.

At least 50 percent of the accounting, business, and economics hours used to meet requirements for the BBA degree must be earned at Washburn University.

Candidates for the BBA degree may not use economics courses to fulfill the Social Science general education distribution requirement

Program Areas

- Major Areas of Concentration (p. 280)
 - Accounting, Concentration (p. 286)
 - Business Data Analytics, Concentration (p. 287)
 - Economics, Concentration (p. 287)
 - Entrepreneurship and Innovation, Concentration (p. 287)
 - Finance, Concentration (p. 288)
 - General Business, Concentration (p. 288)
 - International Business, Concentration (p. 288)
 - Management, Concentration (p. 289)
 - Marketing, Concentration (p. 289)
- Programs of Interest to Both Non-Business and Business Majors (p. 290)
 - Business, Minor (p. 290)
 - Economics, Minor (p. 290)
 - Entrepreneurship, Certificate (p. 290)
 - International Business, Minor (p. 291)
 - Kansas Insurance Certificate (p. 291)
- Programs only available to Non-Business Majors (p. 291)

Major Areas of Concentration

Candidates for the BBA degree may choose a concentration from any of the following subject areas: accounting, business data analytics, economics, entrepreneurship and innovation, finance, international business, management, marketing, and general business.

Planning for More than One Major Area of Concentration

With careful planning on the part of the student, two concentrations may be completed within the 120 hour total by meeting all requirements of two concentrations. Without careful planning it may not be possible to complete the specific requirements of two concentrations in the same semester due to time conflicts between classes or classes not offered every semester. Therefore, students, especially part-time and returning students, should seek early advice about course scheduling and sequencing. (The same warning applies to students seeking to earn the minor in international business or the certificate in entrepreneurship or who are also concurrently pursuing a degree in another unit of the university.) Each major consists of 24 graded upper-division hours in the School of Business divided between required and elective courses.

Programs

- Accounting, Concentration (p. 286)
- Business Data Analytics, Concentration (p. 287)
- Economics, Concentration (p. 287)
- Entrepreneurship and Innovation, Concentration (p. 287)
- Finance, Concentration (p. 288)
- General Business, Concentration (p. 288)
- International Business, Concentration (p. 288)
- Management, Concentration (p. 289)
- Marketing, Concentration (p. 289)

Course Offerings

Accounting

AC 224 Financial Accounting (3)

The study of accounting as a means of communicating financial information about the activities of business enterprises. Emphasis is placed on concepts and principles underlying the measurement of income and financial position and how this information may be used to evaluate the progress of a firm. Prerequisites: EN 101 and MA 116 (recommended) or MA 112.

AC 225 Managerial Accounting (3)

The development and use of information in the accounting system as a management decision tool. Prerequisites: AC 224, MA 116 (recommended) or MA 112, BU 248 and BU 250 or concurrent enrollment.

AC 303 The Role of Accounting in Business and Society (3)

Role of accounting in society, including public and private sector organizations. Information needed for external reporting to investors and creditors, internal management planning and control decisions, assessment of risks and controls critical to reliable financial and non-financial data, and regulatory oversight. Overarching themes include decision-making related to recognition and valuation of economic events, effective communication related to accounting and economic information, as well as the importance of diversity, a global mindset, and good professional judgment by accounting professionals. Prerequisites: AC 224 and AC 225 with a grade of C or better, and consent of instructor.

AC 321 Intermediate Financial Accounting I (3)

Financial theory and problems. Emphasis is on valuation and measurement problems of income determination and balance sheet presentation. Prerequisites: AC 225 and BU 250. May not be taken A/Pass/Fail.

AC 322 Intermediate Financial Accounting II (3)

A continuation of financial accounting theory and problems. Prerequisite: AC 321. May not be taken A/Pass/Fail.

AC 325 Cost Accounting (3)

A study of inventory valuation procedures in manufacturing concerns and the processing, analysis and interpretation of data for use by management in the planning and control of operations. Prerequisites: AC 225 and BU 250. May not be taken A/Pass/Fail.

AC 330 Accounting Information Systems (3)

The study of the development and design of an accounting system. Emphasis on procedures necessary to meet generally accepted auditing standards and methods and techniques to evaluate internal control of an accounting system. Prerequisites: AC 225 and BU 250. May not be taken A/Pass/Fail.

AC 403 Special Topics/Accounting (3)

Selected topics announced in advance. May be taken more than one semester. Prerequisite: Admission to the School of Business. Other prerequisites will be specified for each topic. May not be taken A/Pass/Fail.

AC 404 Independent Study - Accounting (3)

Individual study of a topic in accounting. Activity must be supervised by a full-time School of Business faculty member with professorial rank. Prerequisites: Admission to the School of Business and consent of directing faculty member prior to enrollment. May not be taken A/Pass/Fail.

AC 421 Advanced Financial Accounting (3)

Accounting methods and procedures related to partnerships, branches, business combinations, and foreign exchange. Prerequisites: Admission to the School of Business and AC 322. May not be taken A/Pass/Fail.

AC 423 Federal Income Taxation - Individual (3)

Income tax laws, regulations, and procedures pertinent to individual taxpayer reporting. Prerequisites: Admission to the School of Business and AC 224, AC 225, and BU 250 completed with grades of "C" or better. May not be taken A/Pass/Fail.

AC 424 Federal Income Taxation - Business Entities (3)

Income tax laws, regulations, and procedures pertinent to partnership, corporation, and fiduciary reporting. Prerequisites: Admission to the School of Business and AC 225 and BU 250. May not be taken A/Pass/Fail.

AC 425 Auditing (3)

The course covers essential processes of auditing including specific procedures and techniques usable in the public and private sectors. Technical standards of these sectors receive attention with an emphasis on ethics related to the profession of auditing. The course includes operational and compliance auditing in addition to auditing of financial statements. Other content areas are the auditor's role in society, the application of internal control concepts, the understanding of accounting information systems, the methods of statistical sampling and the use of auditing software. Prerequisites: Admission to the School of Business and AC 321, AC 322, and AC 330 completed with grades of "C" or better. (AC 322 may be taken concurrently.) May not be taken A/Pass/Fail.

AC 427 Governmental and Institutional Accounting (3)

Methods and procedure used in fund accounting with emphasis on governmental units and not-for-profit organizations. Prerequisites: Admission to the School of Business and AC 225 and BU 250. May not be taken A/Pass/Fail.

AC 428 Fraud Examination (3)

Theory, techniques, methods and procedures for the detection, investigation, and deterrence of fraud. Prerequisites: Admission to the School of Business and AC 224, AC 225, and BU 250 or equivalent. May not be taken A/Pass/Fail.

AC 431 Contemporary Issues in Accounting (3)

Current issues in accounting with emphasis on the releases of the American Institute of Certified Public Accountants and the Financial Accounting Standards Board. Includes accounting theory to solving accounting problems. Prerequisites: Admission to the School of Business and AC 322. May not be taken A/Pass/Fail.

AC 499 Internship In Accounting (3)

Professional work experience with a business firm or governmental agency in some phase of public, private, or governmental accounting. The work situation must create a new learning experience for the student. Credit hours in this course may be used only as elective business hours and will not count toward the minimum 63 hours of accounting, business, and economics hours required of the BBA candidate nor will they count toward the minimum twenty-four hours of accounting required of accounting majors. Internship credit hours will be counted in the maximum School of Business hours an accounting major may earn within a 120-hour program. The student's grade will be awarded on a pass-fail basis, as determined by the supervising faculty member. Prerequisites: Admission to the School of Business, consent of the accounting faculty, appropriate academic background, at least 75 semester credit hours, at least a 2.5 overall grade average, and meet the general qualifications specified by the sponsoring business firm or governmental agency.

Business**BU 101 Introduction to Business (3)**

Designed to introduce the student to the American business system and to analysis of business organization and operation.

BU 115 Entrepreneurship and Entrepreneurship Law (3)

Assists aspiring business owners and managers in recognizing issues relevant to starting-up, maintaining, and growing a company.

BU 180 Personal Finance (3)

Personal and family financial planning. Topics include: consumer legislation, consumer finance, family budgeting, estate planning, insurance, individual income tax, home buying, mortgages, retirement pensions, and investments.

BU 248 Foundations of Data Analysis (3)

Foundational knowledge and technology to perform fundamental data analysis supporting problem solving and evidence based decision making. Through hands-on experiences, students will identify, extract, prepare, and analyze data and communicate those results that inform decisions. Prerequisite: EN 101 and MA 116 (recommended) or MA 112.

BU 250 Management Information Systems (3)

Concepts of information systems; analysis, evaluation, and implementation of management information systems; data-base management; information systems and management. (Assumes intermediate knowledge of MS Office applications, including Excel spreadsheets.) Prerequisites: CM 101 or consent, EN 101, and MA 116 (recommended) or MA 112.

BU 259 The Business of Art (3)

Explores and analyzes approaches to art valuation, art appraisal, and entrepreneurship in the arts. Examines the art market, the art consumer, and the value of art. Business problems and opportunities in the world of art are identified, analyzed, and assessed. Prerequisite: MA 112.

BU 260 Business Plan Development (3)

Through application of an entrepreneurial framework, learn to evaluate opportunities and develop a business concept to determine feasibility and access funding. Gain confidence to use entrepreneurial thinking and action with future opportunities.

BU 302 Business Communications (3)

Written communications including simpler types of business messages. Emphasis is placed on positive planning for effective human relations through management messages. Prerequisites: EN 101 with grade of "C" or better, CM 101, or equivalent, CN 150 or CN 365, or equivalent.

BU 305 Contemporary Information Systems (3)

Enterprise Resource Planning (ERP) computer systems. Understanding of business processes and their relation to Integrated Information Systems. Advanced Computer Modeling. Prerequisites: BU 250 and AC 225.

BU 309 Business Data Communication and Networking (3)

Understanding of the technical and managerial aspects of business data communications and networking to support business processes. Prerequisites: BU 250, AC 225, EC 200, and EC 201.

BU 315 Legal Environment of Business (3)

Legal process, nature, and sources of the law, government regulation and administrative law as they affect business. Prerequisites: EC 200, EC 201, and 2.0 GPA.

BU 319 Labor Law & Legislation (3)

The statutory, judicial and administrative law pertaining to labor-management relations. Prerequisites: EC 200 and EC 201.

BU 342 Organization & Management (3)

Management theory and practice, including fundamentals of management; making things happen; meeting the competition; organizing people, projects, and processes; and motivating and leading. Emphasis is given to the development of management, organizational structures, organizational dynamics, the impact of environmental forces and use of analytical tools in the performance of the management function. Prerequisites: EC 200, EC 201; two out of three of the following: AN 112, PY 100, and SO 100; and 2.0 GPA.

BU 343 Entrepreneurship, Creativity, and Innovation (3)

Provides students with an overall understanding of the entrepreneurship process. Specifically explores the dimensions of creativity and innovation, and how these can aid firm growth. Explores the scope of entrepreneurship as new venture development and examines entrepreneurship as a manageable process that can be applied in any organizational setting. Exposes students to a mix of theory and practice which is applied to real world situations. Prerequisites: BU 260, or EC 200, EC 201, and BU 342 (or concurrent).

BU 345 Human Resources Management (3)

The principles and practices of sound employee relations with emphasis upon the selection, development and morale of employees. Prerequisites: EC 200 and EC 201.

BU 346 Organizational Behavior (3)

Review of theory and research related to work behavior in organizations with focus on individual and group behavior. Prerequisites: PY 100 or SO 100.

BU 347 Production and Operations Management (3)

Operations management in both manufacturing and service organizations. Use of models to make operations management decisions in the areas of productivity, quality, customer service, and production and process strategy. Prerequisites: BU 250, BU 342, EC 211 (or MA 343), AC 225, MA 141, and 2.0 GPA.

BU 355 International Business (3)

The global economic and political environment in which international trade and investment activities as conducted by multinational and national business organizations. Examination of the international dimensions of the areas of finance, management, marketing, operations, and business strategy. Prerequisites: AC 225 or BU 101, EC 200 and EC 201.

BU 356 Cross-Cultural Management (3)

Critical assessment of practices in managing a culturally diverse workforce. Applications of culture to ethics and values across the globe, communication, motivation, dispute resolution, and human resource management. Prerequisite: BU 342 (or concurrent).

BU 360 Principles of Marketing (3)

Marketing concepts and their relevance to organizational objectives and methods of operation. Marketing environment, marketing mix, marketing planning, strategy implementation, and assessment of marketing performance. Emphasis on improving marketing performance in a socially and ethically responsible manner. Prerequisites: EC 200, EC 201, and 2.0 GPA.

BU 361 Principles of Retailing (3)

Structural organization for retailing and the functional activities involved. Principles of site selection, staffing, planning, pricing, buying merchandise, sales promotion and expense management are included. Prerequisite: BU 360.

BU 362 Marketing Research (3)

Techniques by which industries and individual firms seek to coordinate buying with consumer demand. Application of research techniques to various marketing problems. Prerequisites: BU 360 and EC 211 (or MA 343).

BU 363 Promotion (3)

Examination of the promotion function of the marketing mix. Topics include: promotion strategy; management of the promotion mix (advertising, sales promotion, public relations); media strategy; and evaluation. Prerequisite: BU 360.

BU 364 Consumer Behavior (3)

The behavior of buyers of goods and services. An examination will be made of theories, concepts, methods and research findings of other disciplines and a study of the relation of these findings to management decision making. Industrial and consumer buying behavior will be considered within the context of the course. Prerequisite: BU 360.

BU 366 Sales (3)

A detailed examination of the selling dimension of the promotion mix. Topics include: personal communication; personal selling; relationship-building; and sales strategy and management. Prerequisite: BU 360.

BU 368 International Marketing (3)

Analysis of marketing management problems, techniques and strategies in international marketing, emphasizing changes in competition and market structure abroad.

BU 369 Entrepreneurial Marketing (3)

Framework to identify, create, and implement innovative marketing techniques for new ventures and small businesses in a resource-constrained environment. Creative strategies for the start-up phase for new products and services or in new markets and also applicable in large organizations. Prerequisite: BU 360.

BU 370 Entrepreneurship Clinic (3)

The capstone of the entrepreneurship program. Key building blocks: in class debate, field cases, redefinition and development of business ideas moderated by instructors. Students will be expected to work for and with entrepreneurs and develop business models that can be implemented. They will present a working model by the completion of the course. Successful entrepreneurs will participate as speakers/moderators and mentors for the participating students. Prerequisites: BU 343 or Admission to the School of Business.

BU 371 Digital Marketing (3)

Examines how digital technologies can be employed to enhance and implement the marketing function. Provides an overview of the concepts defining the digital environment and examines the concepts and techniques that characterize marketing in the digital environment. Prerequisite: BU 360.

BU 374 Principles of Risk and Insurance (3)

The study of risk and insurance, dealing with the principal risks to which individuals are exposed, and the various means of dealing with risk, including insurance, risk retention, self-insurance, and loss prevention. Examines the responsibilities and activities for treating risk at three levels: personal and family, employer, and government.

BU 375 Property and Liability Insurance (3)

An advanced insurance course of current financial, legal and social problems involving property-liability insurance; analysis of legal problems involving insurance coverage, financial aspects, and governmental regulation of the property-liability insurance enterprise, and economic aspects of the insurance industry. Prerequisite: BU 374.

BU 378 Life and Health Insurance (3)

The problems of and the alternative techniques for the insuring of health and human life values from the differing viewpoints of the company, the economy, and the consumer. Among the topics covered are health and financial needs in the life cycle of the family, settlement options and the programming elements of business insurance, estate planning, probability theory mortality, rating and reserves, and the recent changes in the health insurance industry. Prerequisite: BU 374.

BU 381 Business Finance (3)

Theory and techniques of financial management, designed to provide the basic financial background needed by students in business, economics, or related fields. Topics include: capital budgeting, capital structure, dividend policy, the cost of capital, and working capital management. Prerequisites: AC 224, AC 225, BU 250, MA 141, EC 211 (or MA 343), and 2.0 GPA.

BU 387 Credit Management (3)

Principles and procedures involved in mercantile and consumer credit. The organization and operation of a credit department, source of credit information, and collection procedure and policies. Prerequisites: EC 200 and EC 201.

BU 389 Entrepreneurial Finance - Small Business (3)

The financial aspects of the management of small business and entrepreneurial firms (sole proprietorships, partnerships, small nonpublic corporations). Prerequisite: BU 381.

BU 390 Principles of Real Estate (3)

A course that surveys the many areas of the real estate business and real estate investment. Financing, appraisal, loan closing, marketing, property management, land description, title transfer and other topics are included in the course.

BU 392 Real Estate Law (3)

Elements of property laws, purchase contracts, listing agreements, estates and trusts. Prerequisite: BU 315.

BU 393 Real Estate Appraisal (3)

An introduction to real estate appraising including the market comparison, cost and income approaches to value with emphasis on house appraisal.

BU 403 Special Topics/Business (3)

Selected topics announced in advanced. May be taken more than one semester. Prerequisite: Admission to the School of Business. Other prerequisites will be specified for each topic.

BU 404 Independent Study-Business (3)

Individual study of a topic in business. Activity must be supervised by a full-time School of Business faculty member with professorial rank. Prerequisites: Admission to the School of Business and consent of directing faculty member prior to enrollment.

BU 405 Honors Research-Business (3)

Restricted to those students seeking to qualify for honors in the major field and designed to provide an intellectual challenge for superior students with a strong interest in scholarship. Course activity must be supervised by a member of the full-time School of Business faculty with professorial rank. Prerequisites: Admission to the School of Business and consent.

BU 406 International Business and Entrepreneurial Experience (3)

First-hand business experience acquired in an international setting. Analysis of business problems, ideas, opportunities, techniques, and strategies in an international context. Emphasizes changes in competition and market structure abroad. Washburn students will work in teams with foreign students to solve a problem for an overseas company. With approval, this course may be taken for credit more than once. Prerequisites: Admission to the School of Business, BU 315, BU 347, BU 381 (or concurrent), and consent.

BU 416 Commercial Transactions (3)

Commercial law in the area of the Uniform Commercial Code, suretyship, insurance, professional responsibilities, etc. Prerequisites: Admission to the School of Business and BU 315.

BU 417 Legal Business Associations (3)

Examination of the law of agency, partnerships, corporations, and security regulations. Prerequisites: Admission to the School of Business and BU 315 recommended.

BU 419 Labor Relations (3)

Labor relations and collective bargaining including the history, structure, and policies of labor organizations. Mediation and arbitration are considered. Prerequisites: Admission to the School of Business and EC 341.

BU 449 Strategic Management (3)

Integrate the functional areas of business in formulating and implementing basic policy for business. Analytical approach to strategic decisions applied to practical examples of problems faced by business firms. May not be taken for graduate credit. Prerequisites: Admission to the School of Business, BU 342, BU 347, BU 360, BU 381, and 2.0 GPA.

BU 457 Multinational Enterprise Practices (3)

Multinational enterprise principles and solutions to meet international accounting and global supply chain business needs. Benefits risks, and costs associated with MNE managers's decisions. Prerequisite: Admission to School of Business, and BU 342 or BU 355.

BU 460 Small Business Institute (3)

Student groups counsel and consult with small business firms selected by the Small Business Administration and the instructor. Field work with the firms provides opportunities to identify and analyze problems, and to make recommendations. Prerequisites: Admission to the School of Business, senior business major, and consent.

BU 461 Small Business Institute (3)

Student groups counsel and consult with small business firms selected by the Small Business Administration and the instructor. Field work with the firms provides opportunities to identify and analyze problems, and to make recommendations. Prerequisites: Admission to the School of Business, senior business major, and consent.

BU 470 Entrepreneurship Clinic (3)

The capstone of the entrepreneurship program. Key building blocks: in class debate, field cases, redefinition and development of business ideas moderated by instructors. Students will be expected to work for and with entrepreneurs and develop business models that can be implemented. They will present a working model by the completion of the course. Successful entrepreneurs will participate as speakers/ moderators and mentors for the participating students. Prerequisites: BU 115, BU 260 and junior status; or EC 201 and CM 335 and junior status; or admission to the School of Business.

BU 471 Marketing Management (3)

Examination of the strategic marketing management process planning, implementation, and control. Topics include: environmental, competitor, and customer analysis; market targeting; the marketing mix; and the international aspects of marketing management. Case analysis and marketing models are used. Prerequisites: Admission to the School of Business and BU 360.

BU 473 Marketing Channels (3)

The distribution function of the marketing mix. Topics include: channel structure and function; strategic channel development; channel management and logistics; direct channels, service channels, franchising, and international distribution channels. Prerequisites: Admission to the School of Business and BU 360.

BU 475 Theory of Insurance (3)

The nature and cost of risk in our economic society, and of the methods of handling it. Prerequisites: Admission to the School of Business and BU 375.

BU 477 International Finance (3)

The financial management of a multinational business enterprise. Develops strategies for investing internationally, including hedging exchange rate risk, adjusting to client preferences and home currencies, evaluating performance, estimating a corporation's exposure to real exchange rate risk, strategies to hedge risk or to dynamically adjust to shocks, and reasons for a corporation to hedge. Also covers international capital budgeting, multinational transfer pricing, and international cash management. Prerequisites: Admission to the School of Business and BU 381, or equivalent (assumes accounting and statistics).

BU 483 Investments (3)

The theory and techniques of financial asset analysis including the fundamental, technical, and efficient market approaches. The course is designed to provide background needed by individuals (regardless of major) to make investment decisions. Topics include: market mechanism, mutual funds, the yield curve, fundamental common stock analysis, and portfolio theory. Prerequisites: Admission to the School of Business and BU 381.

BU 484 Applied Portfolio Management (3)

Provides students with the opportunity to practice investment analysis and portfolio management. Students analyze stocks and other investments. Based on student research, funds provided by the university are allocated to various investments and held in a portfolio that is reviewed and updated in subsequent semesters. Prerequisites: Admission to the School of Business, BU 347 and 483.

BU 488 Financial Management (3)

Specialized skills in corporate financial management are developed through the application of techniques such as the discounted cash flow method, dividend valuation model, capital asset pricing model, and options pricing models. Problem areas covered include working capital management, capital budgeting, and capital structure. Prerequisites: Admission to the School of Business and BU 381.

BU 491 Real Estate Finance (3)

Methods of financing residential, commercial and industrial properties. The nature of mortgage loans for construction and permanent financing and land development. Sources of funds, lender requirements, and loan and investment yield analysis. Secondary mortgage market financing. Prerequisites: Admission to the School of Business and BU 381.

BU 493 Income Property Appraisal (3)

Techniques and methods used in appraising income properties. Prerequisites: Admission to the School of Business and BU 393.

BU 495 Real Estate Investment (3)

Cash flow and investment return analyses are applied to income-producing properties. The most commonly used methods of yield analysis are used in real estate investment case analysis. Financing, appraisal, taxation, and property rights are applied to apartment and office buildings, rental houses, shopping centers, industrial parks, and other types of properties. The capstone real estate course. Prerequisites: Admission to the School of Business.

BU 499 Internship in Business (3)

Professional work experience with a business firm or governmental agency in the following areas of specialization: finance and banking, management, and marketing. The work situation must create a new learning experience for the student. Credit hours may be used only as elective business hours and will not count toward the minimum 63 hours of accounting, business, and economics hours required of the BBA candidate. The grade will be awarded on a pass-fail basis, as determined by the supervising faculty member. Prerequisites: Admission to the School of Business, BU 347, consent of the major area faculty, appropriate academic background, at least seventy-five (75) semester credit hours, at least a 2.5 overall GPA, and meet the general qualifications specified by the sponsoring business firm or governmental agency.

Data Analytics**DA 348 Data Discovery and Management (3)**

Students will identify and manipulate data that will provide actionable information to solve business problems. Prerequisite: BU 248, BU 250, and EC 211 (concurrent) or MA 346 (concurrent)

DA 358 Data Methods and Warehousing (3)

Students will learn methods to process a variety of data types (unstructured and semi-structured) and to use technologies that convert, analyze and store large volumes of data. Unstructured and semi-structured data will be converted into information useful for problem solving. Prerequisite: DA 348 and EC 211 (or MA 346)

DA 368 Data Mining and Modeling (3)

Students will learn technologies that can be used to discover relationships among data. These relations can be used to create models used to predict or classify new data. Prerequisite: DA 348 and EC 211 (or MA 346)

DA 478 Data Analytics Applied - Practicum (3)

Students will apply the data analytics process, including data discovery, transformation, organization, and modeling, to a real-world project and to effectively communicate the solutions. Prerequisite: DA 358 and DA 368.

Economics

Economics courses cannot be used to meet the general education distribution requirement in the social science area for students seeking the BBA, but they can be used to meet the requirement for twelve additional hours in a general education discipline. (See BBA requirements for details.)

EC 100 Introduction to Economics (3)

Factors determining the general levels of employment and inflation are examined as well as an analysis of markets, prices and production. Current economic problems are used to illustrate these concepts. Not open to students who have credit in EC 200 or EC 201. EC 100 may not be used as a substitute for EC 200 or EC 201.

(General Ed Social Science. Quan and Sci Reason Lit.)

EC 200 Principles of Microeconomics (3)

The fundamentals of price theory. A study of the interaction of markets and decisions made by consumers and firms. Market structure, allocation of resources, and efficiency issues are addressed. Prerequisites: MA 116 (recommended) or MA 112, or higher. (Formerly EC 202)

(General Ed Social Science. Quan and Sci Reason Lit.)

EC 201 Principles of Macroeconomics (3)

Nature and performance of the American economy considered in the aggregate. Topics include the determinants of aggregate output, unemployment, and inflation. Analyses of national income, business cycles, fiscal and monetary policies, and international trade are introduced. Prerequisites: EC 200, MA 116 (recommended) or MA 112, or higher.

(General Ed Social Science. Quan and Sci Reason Lit.)

EC 211 Statistics for Business and Economics (3)

The application of statistical methods to decision problems in business and economics. Topics include sampling distributions and their properties, statistical inference, simple linear and multivariate regression analysis, application of regression and smoothing techniques to time series analysis, analysis of variance, distribution-free and chi-square test procedures, and concepts of statistical quality control. Prerequisites: MA 140, or its equivalent, and MA 116 (or MA 141 or MA 151 or higher), or their equivalents with grades of C or better.

EC 300 Microeconomic Analysis (3)

An in-depth analysis of the behavior of individual economic units and various economic policies is developed, using the tools of price theory and game theory. Prerequisites: EC 200, EC 201, MA 141, and 2.0 GPA.

EC 301 Macroeconomic Theory (3)

A study of the determinants of the level of aggregate income, employment, and prices. Analyses of secular and cyclical changes in economic activity, and of the effects of public policy on aggregate economic experience. Integration of international trade and finance into macroeconomic models. Classical, Keynesian, and Monetarist theories are analyzed. Prerequisites: EC 200, EC 201, MA 141, and 2.0 GPA.

EC 306 Game Theory and Applications (3)

Acquaints the student with concepts and tools of game theory and their use in strategic decision making. Applications of game theory to business, sociology, political science, and evolutionary biology are discussed. Prerequisites: MA 140 and MA 141 or higher.

EC 310 History of Economic Thought (3)

Comparative study of the historical origin, content, and impact of selected schools of economic thought. Emphasis upon tracing evolution of economic theories out of specific historical contexts. Major schools of economic thought from the Greeks through Adam Smith to the present. Prerequisites: EC 200 and EC 201.

EC 313 Industrial Organization and Policy (3)

An in-depth look at market structures and their effect on tactics and strategies of firms. Includes economic analysis of government efforts to regulate and control business activities. Prerequisites: EC 200 and EC 201.

EC 341 Labor Economics (3)

An analysis of the market for labor in the United States. Investigates issues of wage determination, worker productivity, labor supply and demand analysis, employment, and education and training. May include income inequality, discrimination, promotion, compensation, and immigration. Prerequisites: EC 200 and EC 201.

EC 388 Urban & Regional Economics (3)

The location of economic activity for firms, industries and cities used as a base for considering regional growth and decline and urban economic structure, problems, and policies. Prerequisites: EC 200 and EC 201.

EC 403 Special Topics/Economics (3)

Selected topics announced in advance. May be taken more than one semester. Prerequisites will be specified for each topic.

EC 404 Independent Study-Economics (3)

Individual study of an economic problem. Course activity must be supervised by a member of the full-time faculty with professorial rank in the School of Business. Prerequisite: Consent of directing faculty member prior to enrollment.

EC 405 Honors Research in Economics (3)

Restricted to those students seeking to qualify for honors in the major field. The study is designed to provide an intellectual challenge for superior students with a strong interest in scholarship. Course activity must be supervised by a member of the full-time faculty with professorial rank in the School of Business. Prerequisites: Senior major and consent.

EC 409 Introductory Econometrics (3)

An introduction to analysis and its applications. Investigates the use of linear regression models, their standard assumptions, and correction for violation of these assumptions. Special topics may include qualitative explanatory variables, distributed lags, and simultaneous equation models. Prerequisites: EC 200, EC 201, and EC 211 (or MA 343).

EC 410 International Economics (3)

The theory of international trade and international finance. Costs and benefits of international economic interdependence. Discussion of current issues in trade policy and the international economic system. Prerequisites: EC 200 and EC 201.

EC 480 Public Finance (3)

The theory of taxation, public expenditure and fiscal policy. Impact of government financial policies upon resource allocation, income distribution, economic growth, economic stabilization and balance of payments. Foundations for balanced state and local taxation. Prerequisites: EC 200 and EC 201.

EC 485 Money & Banking (3)

The economic principles and institutional features of money, the payments system, and the financial system, with emphasis on commercial banking. Analyzes the Federal Reserve System and the effect of monetary policy on the economy. Prerequisites: EC 200 and EC 201.

EC 499 Internship in Economics (3)

Professional work experience with a government agency, financial institution, or other business firm in the area of economic analysis or planning. The work situation must create a new learning experience for the student. Credit hours in this course will not count toward the minimum 63 hours in the School of Business required for the BBA. The student's grade will be awarded on a pass/fail basis, as determined by the supervising faculty member. Prerequisites: Consent of major area faculty, appropriate background, at least seventy-five (75) semester credit hours, at least a 2.5 overall GPA and meet the general qualifications specified by the sponsoring business firm or governmental agency.

Accounting, Concentration

There are many career choices within the profession of accountancy. The four principal areas of employment are in industrial concerns, public practice, non-profit organizations, and governmental agencies. Industrial accountants assemble and interpret relevant business information for interested parties within their employer's firm. Public accountants provide professional services primarily in three areas: income tax, auditing, and management services. Governmental accountants perform services similar to those by industrial and public accountants for local, state, and national governmental agencies.

Student Learning Outcomes for the Accounting Concentration

Upon completion of a concentration in accounting, students will be able to do the following:

- Perform the systematic transformation of data into accounting information through the application of GAAP and income tax law.
- Describe the uses, qualities, and roles of accounting information.
- Explain the principles of internal control systems and the importance of internal control systems to organizations.
- Apply current technology to the accounting process and the demand for information.
- Evaluate accounting issues and related behavior in an ethical context, while reflecting an understanding of the public service nature of the accounting function.

Concentration Requirements

Code	Title	Hours
AC 321	Intermediate Financial Accounting I	3
AC 322	Intermediate Financial Accounting II	3
AC 325	Cost Accounting	3
AC 330	Accounting Information Systems	3
AC 423	Federal Income Taxation - Individual	3
AC 425	Auditing	3
Graded upper-division elective hours in accounting, economics, or business		6
Total Hours		24

Candidates for the **Uniform Certified Public Accountant Examination** must also fulfill the subject matter requirements of the Kansas Board of Accountancy. Students desiring to attempt the examination for the **Certificate in Management Accounting** must meet the requirements of the Institute of Management Accountants. Information regarding the CPA examination and the CMA examination may be obtained from the accounting faculty.

Business Data Analytics, Concentration

Program Description

The business data analytics curriculum is designed to prepare students for professional employment in a wide variety of business firms managing and analyzing the ever-increasing flows of data resulting from normal business operations and processes. Utilization of these new sources of value requires business professionals with the analytic and visualization skills and training to put these new resources to work to solve business problems.

Learning Objectives for the Business Data Analytics Concentration

Upon completion of a concentration in business analytics, the students will be able to do the following:

- Find sources of data and demonstrate different methods for data collection.
- Demonstrate methods to transform data into useful, actionable information for solving business problems.
- Use modeling techniques to discover relationships among data.
- Use information-processing tools and models applicable to business management and decision making.
- Identify the regulations, privacy concerns, security issues, and ethical considerations of data management.
- Apply data discovery, organization, modeling, visualization, and analysis to a real-world project.

Concentration Requirements

The following courses are required for the business data analytics concentration:

Code	Title	Hours
DA 348	Data Discovery and Management	3
DA 358	Data Methods and Warehousing	3
DA 368	Data Mining and Modeling	3
DA 478	Data Analytics Applied - Practicum	3
Twelve additional graded upper-division elective hours ¹		12
Total Hours		24

¹ in accounting, business, or economics

Economics, Concentration

The economics curriculum is designed to provide the student with an understanding of the principles and institutions governing economic decisions made by households, businesses, and governments. This type of knowledge, combined with studies in related areas, provides

an appropriate background for careers in financial and non-financial business firms and governmental agencies. It also provides a solid basis for graduate study in economics, business and public administration, urban planning, international studies, and law.

Learning Objectives for the Economics Concentration

Upon completion of a concentration in economics, students will be able to do the following:

- Find facts and interpret them consistent with economic thinking.
- Demonstrate an understanding of how decision makers allocate scarce resources to achieve economic efficiency.
- Apply economic tools to analyze decisions made by consumers, firms, and policy makers.
- Use economic models to analyze the impact of various fiscal, monetary, and trade policies on a nation's economy.

Concentration Requirements

The following courses are required for the economics concentration:

Code	Title	Hours
EC 300	Microeconomic Analysis	3
EC 301	Macroeconomic Theory	3
Additional upper-division economics hours		6
Graded upper-division electives in accounting, business, or economics		12
Total Hours		24

Entrepreneurship and Innovation, Concentration

The entrepreneurship and innovation curriculum is designed to educate students in the business start-up process and to apply innovative thinking and problem-solving in their chosen organizations, small or large, for-profit or non-profit, or in the public or private sectors.

Learning Objectives for the Entrepreneurship and Innovation Concentration

Upon completion of a concentration in entrepreneurship and innovation, students will be able to do the following:

- Explain the concepts and methods associated with innovation, entrepreneurship, and small business.
- Analyze markets and assess the potential of opportunities prior to developing the business plan.
- Demonstrate an understanding of the importance of creativity and innovation in the entrepreneurship process in a variety of organizational settings.
- Prepare a business plan and demonstrate knowledge of how to start and manage their own business.
- Analyze risk and uncertainty and understand how to reduce these factors in new ventures.

Concentration Requirements

The following courses are required for the entrepreneurship and innovation concentration:

Code	Title	Hours
BU 343	Entrepreneurship, Creativity, and Innovation	3
BU 369	Entrepreneurial Marketing	3
BU 370	Entrepreneurship Clinic	3
BU 389	Entrepreneurial Finance - Small Business	3
Graded upper-division elective hours in accounting, business, or economics		12
Total Hours		24

Finance, Concentration

The finance curriculum is designed to prepare students for (1) careers in government services, corporate financial management, commercial banking, security analysis, insurance, real estate, and other finance fields, and (2) graduate study. Students are encouraged to meet with faculty advisors as early as possible to plan a program which will fulfill their goals.

Learning Objectives for the Finance Concentration

Upon completion of a concentration in finance, students will be able to do the following:

- Demonstrate an understanding of interest rate determination and monetary policy.
- Demonstrate an understanding of agency issues in finance.
- Calculate and apply present value concepts to financial decisions.
- Demonstrate an understanding of the risk-return tradeoff and of insurable risk.
- Analyze accounting information to support financial decisions.

Concentration Requirements

The following courses are required for the finance concentration:

Code	Title	Hours
BU 483	Investments	3
BU 488	Financial Management	3
EC 485	Money & Banking	3
Select three hours from the following:		3
BU 374	Principles of Risk and Insurance	
BU 477	International Finance ¹	
BU 484	Applied Portfolio Management	
Graded upper-division elective hours in accounting, business, or economics		12
Total Hours		24

¹ BU 477 International Finance cannot be used to meet both the finance elective requirement and the Global Dynamics Requirement (GDR). If BU 477 International Finance is used as a finance elective, the BU 355 International Business or EC 410 International Economics must be used for the GDR.

General Business, Concentration

The concentration in general business allows the flexibility to design a 24-hour upper-division program using courses from several or all areas in the School of Business in accord with his or her own interests and needs. Candidates for the degree of Bachelor of Business Administration with a concentration in general business must:

1. meet the University requirements,
2. meet the School of Business requirements, and
3. complete at least twenty-four (24) additional graded upper-division hours in accounting, business, and economics beyond those named courses required for all candidates for the BBA degree.

Learning Objectives for the General Business Concentration

Upon completion of a concentration in general business, students will be able to do the following:

- Apply quantitative and qualitative analysis and critical thinking to business problems.
- Explain how leadership capabilities affect the ability to structure and manage business organizations.
- Demonstrate knowledge of the application of ethical concepts to business issues.
- Explain the impact of global markets on business operations.
- Apply technology to the solution of diverse business issues and problems.
- Explain the impact of diversity on organizations.
- Explain the relationships among the above mentioned aspects of business.

International Business, Concentration

The international business curriculum is designed to equip graduates with skills suitable for employment at international and global enterprises. A student would understand advantages and challenges of doing business globally, understand different cultures, and be able to perform business tasks in a different cultural and professional environment.

Student Learning Outcomes for the International Business Concentration

Upon completion of the concentration in international business, students will be able to do the following:

- Critically assess costs and benefits of doing business internationally.
- Demonstrate familiarity with international business practices and select strategies suitable for firms entering and operating in global markets.
- Assess the impact of international business activities on functional departments within a firm.
- Identify risks associated with global operations and strategies for managing those risks.

- Demonstrate the ability to manage cultural and ethical challenges related to international business.
- Apply multicultural constructs to business tasks.

Concentration Requirements

The following courses are required for the international business concentration:

Code	Title	Hours
BU 356	Cross-Cultural Management	3
BU 368	International Marketing	3
BU 457	Multinational Enterprise Practices	3
EC 410	International Economics	3
or BU 477	International Finance	
Additional graded upper-division elective hours in accounting, business, or economics		12
Select one of the following:		3-6
BU 406	International Business and Entrepreneurial Experience ¹	
University-approved study abroad or an international internship ¹		
Six credit hours of course work in one of the modern foreign languages at the intermediate level or above		
Total Hours		27-30

¹ Credits earned may be counted to fulfill the twelve additional upper-division elective hours in accounting, business, or economics requirement.

Note: that courses taken to fulfill the requirements of the international business concentration cannot be used to simultaneously meet the Global Dynamics Requirement (GDR) for the BBA degree. Therefore a student seeking a BBA degree with a concentration in international business will have to take the total of five courses with international content. While most students will use BU 355 International Business to meet the GDR, students who have already met the GDR by taking EC 410 International Economics or BU 477 International Finance will be required to take either the other course or BU 355 International Business. BU 406 International Business and Entrepreneurial Experience cannot be used to meet the GDR, but can be used as a business elective.

Management, Concentration

Management courses in the fields of organization theory, human relationships, administrative communication, and related behavioral areas provide students with pertinent background for management careers in business and non-business organizations. Students may focus their studies in the areas of personnel management, industrial relations, and industrial management by selecting appropriate elective courses in consultation with an advisor.

Learning Objectives for the Management Concentration

Upon completion of the concentration in management, students will be able to do the following:

- Describe the critical functions of human resource management and how they fit with other organizational functions and strategy.

- Demonstrate how an understanding of human behavior can solve interpersonal problems in organizational settings.
- Demonstrate proficiency in written and oral communications.
- Demonstrate how economic thought influences management decision making.

Concentration Requirements

The following courses are required for the management concentration:

Code	Title	Hours
BU 302	Business Communications	3
BU 345	Human Resources Management	3
BU 346	Organizational Behavior	3
EC 341	Labor Economics	3
Graded upper-division elective hours in accounting, business, or economics		12
Total Hours		24

Marketing, Concentration

The marketing curriculum involves analysis of the ways business firms plan, organize, administer, and control their resources to achieve marketing objectives. Through proper selection of courses, a student may prepare for a career in general marketing management, promotion management, personal selling and sales management, marketing research, channels management, and/or retail management.

Learning Objectives for the Marketing Concentration

Upon completion of a concentration in marketing, students will be able to do the following:

- Conduct and present a comprehensive consumer behavior audit.
- Analyze a company's existing product, determine its positioning in the marketplace, and develop a marketing mix strategy reflective of its positioning.
- Prepare and defend a marketing plan for a company by integrating appropriate concepts and methods.
- Develop a marketing research plan and defend its procedural soundness.
- Demonstrate an understanding of the stages of the sales process and the way these stages are implemented.
- Demonstrate an understanding of the global marketplace and how to design marketing strategies that are appropriate for various cultures and countries.

Degree Requirements

The following courses are required for the marketing concentration:

Code	Title	Hours
BU 362	Marketing Research	3
BU 364	Consumer Behavior	3
BU 471	Marketing Management	3
Select three additional hours from the following:		3
BU 361	Principles of Retailing	
BU 363	Promotion	
BU 366	Sales	

BU 368	International Marketing	
BU 369	Entrepreneurial Marketing	
BU 371	Digital Marketing	
BU 473	Marketing Channels	
Graded upper-division elective hours in accounting, business, or economics		12
Total Hours		24

Programs of Interest to Both Non-Business and Business Majors

The School of Business offers several academic programs for students whose bachelor degree or degree programs are not in business. These programs include:

- Minor in Business
- Minor in Economics
- Minor in International Business
- Certificate in Entrepreneurship
- Master of Accountancy
- Master of Business Administration
- Kansas Insurance Certificate

The Minor in Business, the Minor in International Business, the Certificate in Entrepreneurship, and the Kansas Insurance Certificate can be earned by any student as part of any Washburn University bachelor degree program. However, the Minor in Business is not available to BBA majors. The Master of Accountancy program is open to Washburn senior accounting students and to students with a bachelor's degree in accounting, or its equivalent, without regard to major, provided they meet the course prerequisite requirements and the requirements for admission. The Master of Business Administration program is open to students with a bachelor's degree, or its equivalent, without regard to major, provided they meet the requirements for admission. Admission to both the Master of Accountancy and the MBA programs are selective. Both require a separate application to Washburn University as well as a separate application for admission to the MAcc program or the MBA program.

Visiting students and Washburn University students not seeking a BBA degree, minor, or certificate offered by the School of Business are welcome to enroll in most undergraduate courses offered by the School of Business (unless otherwise designated) provided they, like BBA students, meet the course, hours, and GPA prerequisites for the course as noted in the class schedule and Washburn University catalog, up to a limit of 30 hours of course credit in accounting and business before being admitted to the School of Business. Questions should be directed to an Academic Advisor in the School of Business office. Final determination as to whether prerequisites have been met resides in the Dean's Office. **Note:** The prerequisites of a course include the prerequisites of its prerequisite courses.

- Business, Minor (p. 290)
- Economics, Minor (p. 290)
- Entrepreneurship, Certificate (p. 290)
- International Business, Minor (p. 291)
- Kansas Insurance Certificate (p. 291)

Business, Minor

The Minor in Business is designed to provide the non-business student with an understanding of the essentials of business methods and practices. This minor is not available to students majoring in any of the business concentrations.

Minor Requirements

The requirements are as follows:

Code	Title	Hours
AC 224	Financial Accounting	3
EC 200	Principles of Microeconomics ¹	3
EC 201	Principles of Macroeconomics ¹	3
Select one of the following:		3
BU 342	Organization & Management	
BU 345	Human Resources Management	
BU 346	Organizational Behavior	
Additional hours from accounting, business, or economics (in courses numbered 200 and above), including six hours at the upper-division level.		9
Total Hours		21

¹ This course counts as part of the University's general education program.

A grade of C or better must be earned in each course used to satisfy the requirements for the minor. Half of the hours used to satisfy the requirements of the minor must be earned at Washburn University.

Economics, Minor

Minor Requirements

The Minor in Economics can be earned by candidates for any bachelor's degree offered by Washburn University. The economics faculty has approved the following requirements for the optional minor.

Code	Title	Hours
EC 200	Principles of Microeconomics	3
EC 201	Principles of Macroeconomics	3
Economics courses numbered 300 or above		9
Approved course in statistics		3
Total Hours		18

A grade of C or better must be earned in each course used to satisfy the requirements of the minor.

Please see the current advising sheet for the minor for further details.

Entrepreneurship, Certificate

The Certificate in Entrepreneurship program is open to all students from all majors at Washburn University. It is designed for the student who seeks to be an entrepreneur in a start-up venture, operate a family business, or work as an entrepreneurial change agent within a corporate setting.

Students should seek advising from the School of Business office or from the program advisor and should notify the School of Business office during the semester in which the requirements for the certificate will be

met. The awarding of the Certificate in Entrepreneurship is independent of the graduation date of degree-seeking students. **Note:** Due to Federal regulations, students completing the certificate independently from a Washburn degree program will not be able to receive federal financial aid for the certificate program.

Certificate Requirements

The certificate program requires four three-credit-hour courses. A **grade of C or better** must be earned in each course used to satisfy the requirements of the certificate.

Code	Title	Hours
Required Courses ¹		
BU 115	Entrepreneurship and Entrepreneurship Law	3
or BU 101	Introduction to Business	
BU 260	Business Plan Development	3
BU 343	Entrepreneurship, Creativity, and Innovation	3
BU 370	Entrepreneurship Clinic	3
Total Hours		12

¹ Students in the Bachelor of Business Administration program may substitute BU 406 International Business and Entrepreneurial Experience for any of the four required courses.

International Business, Minor

The Minor in International Business provides students with the opportunity to gain an understanding of the special considerations and implications of operating a business in a global environment. Students completing the minor will have an introduction to the basic economics, management, and marketing principles as applied by business today. Students will be exposed to the language and operation of business in a multinational and national environment.

Minor Requirements

Required business and economics courses include:

Code	Title	Hours
BU 101	Introduction to Business ¹	3
EC 200	Principles of Microeconomics	3
EC 201	Principles of Macroeconomics	3
BU 355	International Business	3
BU 368	International Marketing	3
EC 410	International Economics	3
Cross-cultural course approved by the International Business Advisor		3

¹ AC 224 Financial Accounting and AC 225 Managerial Accounting may be substituted for BU 101 Introduction to Business for the purpose of this minor.

A **grade of C or better** must be earned in each course used to satisfy the requirements for the minor. Half of the hours used to satisfy these course requirements must be earned at Washburn University.

Students are required to complete ten (10) credit hours of a modern foreign language beyond the 101 course. Six hours beyond the 101 course may qualify for Arts and Humanities general education credit.

Students are strongly encouraged to participate in a study abroad program offered by Washburn University.

For further information, please contact the Office of the Dean, School of Business, or the Study Abroad Advisor, Washburn University.

Kansas Insurance Certificate

The Kansas Insurance Certificate provides academic preparation for students who want to pursue a career in the insurance and financial services industries. While the program is offered in partnership with several Kansas Regents universities, all coursework may be completed at Washburn University.

Certificate Requirements

The program requires four (4) three-credit-hour courses for business or non-business students. A **grade of C or better** must be earned in each course and at least six hours must be earned at Washburn University. Some courses have prerequisite requirements. However, prerequisites normally are met as part of the student's major program.

Code	Title	Hours
Required classes for the Kansas Insurance Certificate		
BU 374	Principles of Risk and Insurance	3
BU 378	Life and Health Insurance	3
Subtotal		6
And two classes from the list below		6
MA 385	Actuarial Mathematics	
BU 483	Investments	
BU 366	Sales	
BU 499	Internship in Business	
An additional course offered online from one of several Kansas Regents Universities or		
Another approved Washburn University course in the insurance or financial services areas		
Total Hours		12

The awarding of the Certificate in Entrepreneurship is independent of the graduation date of degree-seeking students. **Note:** Due to Federal regulations, students completing the certificate independently from a Washburn degree program will not be able to receive federal financial aid for the certificate program.

Programs only available to Non-Business Majors

The minor in Business (p. 290) is not available to students who are pursuing one of the business concentrations. It is only available to Non-Business Majors.

School of Nursing

Website: www.washburn.edu/nursing (<https://www.washburn.edu/nursing/>)

Faculty

Jane Carpenter, PhD, Dean and Alice Adam Young Professor of Leadership
 Bobbe Mansfield, DNP, Associate Dean Graduate Nursing Programs and Professor
 Debra Isaacson, DNP, Associate Dean, Undergraduate Nursing Programs and Assistant Professor
 Marian Jamison, PhD, Professor
 Crystal Stevens, MSN, Associate Professor
 Jeanne Catanzaro, MS, Assistant Professor
 Tracy Davies, MSN, Assistant Professor
 Caren Dick, MSN, Assistant Professor
 Belinda Eckert, MSN, Assistant Professor
 Lori Edwards, MSN, Assistant Professor
 Mary Menninger-Corder, PhD, Assistant Professor
 Michele Reisinger, DNP, Assistant Professor
 Lara Rivera, BSN, Assistant Professor
 Delaine Smith, DNP, Assistant Professor
 Shirley Waugh, PhD, Assistant Professor
 Jody Toerber-Clark, DNP, Assistant Professor
 Amanda Hartman, MSN, Assistant Professor
 Michelle Heusi, BSN, Lecturer
 Erica Hill, BSN, Lecturer
 Erinn Howard, DNP, Lecturer
 Susan Maendele, MSN, Lecturer
 Linda Merillat, PhD, Lecturer
 Deb Rector, MSN, Lecturer
 Jane Robinson, MSN, Lecturer
 Dennis Schafers, MSN, Lecturer
 Katherine Ure, MSN, Lecturer
 Amy White, MSN, Lecturer
 Angie Russell, MSN, Lecturer

Staff

Louisa Schurig, Director of Undergraduate Student Services
 Leah Brown, Director of Online Student Services
 Alizabeth Ballard, Director of Graduate Student Services
 Andrea Clifton, School of Nursing Coordinator

Mission Statement

To transform the professional nursing workforce to improve health, enhance the experience of care, and maximize the value of health services to a diverse population.

Philosophy

The nursing faculty believe each human being is a unitary, living open system and is continually engaged in a mutual dynamic process with the environment. Individuals are unique, have inherent worth, and strive to maintain system integrity while progressing through the life process from conception through death. Individuals, families, and communities are open systems engaged in mutual dynamic process with the environment.

Nursing is a health profession which is concerned with promoting the quality of life in individuals, families, and communities. The deliberative and creative use of knowledge for the betterment of human beings is expressed in the science and art of nursing. The nurse, at all levels of preparation, is responsible for assisting the client in recognizing and coping with health needs throughout the life process. Through application of the nursing process, the nurse functions as a provider of

care, a designer/coordinator/manager of care, and as a member of the profession.

Nursing is a practice profession that values clinical expertise and the application of scientific knowledge. Professional education in nursing begins at the baccalaureate level. The purpose of professional nursing education is to provide the knowledge, skills, and attitudes necessary for the student to become a professional nurse and to have the foundation for graduate education. General education in the humanities and in the natural and social sciences provides a broad foundation for understanding and augmenting nursing theory and facilitates the development and integration of the nursing student as a professional person.

The student who attains a graduate degree in nursing becomes a specialized practice expert who demonstrates expanded accountability and responsibility for the care of patients, populations, and systems. In addition to the direct practice role, the graduate also demonstrates expertise in the following competencies:

- Scientific underpinnings for practice.
- Organizational and systems leadership for quality improvement and systems thinking.
- Clinical scholarship and analytical methods for evidence-based practice.
- Information systems/technology for the improvement and transformation of health care.
- Health care policy for advocacy in health care.
- Interpersonal collaboration for improving patient and population health outcomes.
- Prevention of disease and promotion of population health.
- Advancing nursing practice.

Learning is a complex, mutual process of growth and development identified by changes in the behavior of the learner. Each student is unique in life experiences, motivation for learning, and scholastic aptitude. The educational process is designed to provide opportunities for students to meet individual learning needs. The role of the nurse educator is to facilitate the learning process. Students are responsible for learning.

The philosophy and purposes of the School of Nursing are consistent with the mission of Washburn University. The School of Nursing is a major academic unit within the University and is responsible for determining its own professional curriculum and instruction. The richness of resources within the university and community provide opportunities for faculty and students to make significant contributions to health care delivery in a changing, multicultural society.

General Policies

Equal Educational Opportunity

It is the policy of Washburn University to assure equal educational and employment opportunity to qualified individuals without regard to race, color, religion, age, national origin, ancestry, disability, gender, marital or parental status, or sexual orientation.

HIPAA Requirements

Students will receive HIPAA (Health Insurance Portability and Accountability Act) training prior to attending clinical. This training is mandatory for all nursing students.

Completion of Prerequisite Courses

All prerequisite courses must be successfully completed with a grade of C or better before beginning the upper division nursing courses.

Clinical Placement

Students participate in a wide variety of clinical experiences. Clinical experiences may be during the week, on weekends, in the evenings, and outside the Topeka area. With increased class size, students should expect to travel to clinical agencies outside Topeka.

Retention and Progression in the Major

Following admission to the nursing major, a student's progress is evaluated by the Undergraduate Admission, Progression, and Retention (UAPR) Committee upon completion of each nursing course. The School of Nursing follows the University policy of requiring attainment of a minimum grade of C in all required nursing courses.

Grades of Incomplete for Nursing Courses

Course grades of incomplete are given under specific conditions as outlined in the University catalog. In the event that a grade of incomplete has been awarded to a student, the student must complete course work in sufficient time so that a final course grade can be awarded one week prior to the next semester. Students may not progress to the next semester without special permission from the Dean.

Academic Warning and Dismissal

A student who does not receive a minimum grade of C in required nursing courses will receive one of two courses of action determined by the UAPR Committee.

The first time a student receives a final grade of D or F in a nursing course, or withdraws from a course, the student will be placed on Academic Warning. The student may be allowed to repeat the course under the following conditions (all must apply):

- Approval is granted by the UAPR committee and notice is given to the student.
- The instructor grants permission for the student to repeat the course.
- Space is available in the course.

The second time a student receives a grade of D or F in a nursing course or withdraws from a nursing course, or demonstrates a pattern of nonattendance, he/she will be academically dismissed from the program. At that point, the student may not progress further in the nursing major.

Non-Academic Dismissal

To remain in the BSN program at Washburn University students must:

- Adhere to the nursing profession's Code of Ethics.
- Adhere to the School of Nursing Code of Professional Conduct for Nursing Students located in Student Handbook.
- Adhere to the professional conduct requirements outlined in the rules and regulations of the Kansas Nurse Practice Act.

- Adhere to Washburn University's Student Conduct Code and academic impropriety policy as described in the Washburn University Catalog and Student Planner and Handbook.

Students are expected to exhibit professional behavior in the classroom, on campus, and in the practicum settings. Such behavior must reflect the values and ethics of the nursing profession. Should a student be able to perform academically and clinically, yet demonstrate behaviors, values, or attitudes inconsistent with professional nursing practice, non-academic dismissal from the BSN program will be considered. This decision is governed by specific criteria, policies, and procedures as published in the University Catalog and Student Planner and Handbook. The School of Nursing follows the reporting and disciplinary procedures as presented in the Washburn University Student Conduct Code.

Withdrawal from the Nursing Major

A student who wishes to withdraw from the nursing major should present to the Dean of the School of Nursing a written statement of intent to withdraw. An official University withdrawal must be completed in person at the Student One Stop in Morgan Hall Room 101A. Re-application to the School of Nursing will be necessary should the student desire to re-enter the nursing program.

Nursing Skills Competency Following an Absence

Students who have been absent from a baccalaureate nursing program for more than one semester must pass a skills competency examination. The competency exam must be successfully completed the week prior to the beginning of the semester. The student may access the Learning Center resources for review of skills. Students who do not pass the competency exam will be reviewed by the UAPR Committee for decisions regarding remediation or course placement.

Appeal Procedure for a Student Dismissed or Denied Admission/Readmission to the Nursing Major

A student who has been dismissed or denied admission or readmission to the Nursing major and who wishes to appeal the decision of the Undergraduate Admission, Progression, and Retention (UAPR) Committee of the School, may seek recourse through the following procedure. The student should write a letter to the Chairperson of the UAPR Committee requesting reconsideration and stating his/her reasons for disagreement with the decision of the committee. The letter to the UAPR Committee should include the following: an explanation for the situation in which the grade(s) occurred (if applicable), rationale for starting or continuing in the program, and a plan of action for future academic success.

If the decision of the Committee is unsatisfactory to the student, he/she may seek mediation by the Dean of the School of Nursing. Should the student feel dissatisfied with the results of these actions, he/she may request a review of the School of Nursing Faculty as a whole. The decision of that body is final.

Attendance

Regular attendance (both in person and online) at all classes and clinical experiences is expected as a part of professional responsibility and is required of all nursing majors. Students are expected to notify the nursing course instructor in advance when there is need to be absent from a class or clinical experience. Students are required to make up missed

clinical time. Students who have missed an excessive portion of a given course may be withdrawn from the course or receive a failing grade.

Health Clearance Requirements

A health examination, together with prescribed laboratory tests and immunizations, including Hepatitis B vaccine (or signed waiver), is a requirement for entrance into the nursing major. A flu immunization is required for all students. The completion of health clearance requirements is each student's responsibility. The School of Nursing has partnered with Verified Credentials to track pre-licensure student health clearance records and to conduct pre-entrance background checks and drug screens. Students will be provided simple instructions on how to submit their health clearance documentation and will be assessed a fee upon signing up on the Verified Credentials website. Any questions or concerns regarding uploading documents should be directed to Verified Credentials via their website chat feature, email (clientservices@verifiedcredentials.com) or phone (800.938.6090). Nursing students must submit all health clearance requirements by July 1st for the Fall semester, and December 1st for the Spring semester. Students may not participate in any clinical practicums without being compliant with all their health clearance requirements. Failure to comply with health clearance deadlines may result in disenrollment from the program.

The student is responsible for renewing health clearance information annually, by July 1 or December 1 (corresponding to the initial admission date to the nursing major), with his/her personal physician or through the University Student Health Service. Forms for the Annual Health Examination are available through Verified Credentials. Any expenses associated with health examinations or incurred during the course of study in the nursing major are borne by the student.

All nursing students are required to carry personal health insurance and to show verification of a health insurance policy. A group health insurance program is available to all students on an annual basis through the university. All international students, unless they have evidence of other health insurance, must participate in the University sponsored insurance program which is available at each registration period. The cost of the health insurance is the student's responsibility.

CPR Certification

Current certification in Cardiopulmonary Resuscitation (CPR for the Professional Rescuer) is required for all nursing students. Students are responsible for completing the CPR requirement prior to entering the nursing major and for keeping the certification current throughout the nursing program.

Student Liability Insurance

A group liability insurance policy is provided through Washburn University at no cost to students admitted to the nursing major. The policy protects nursing students only when they are engaged in clinical learning experiences under Washburn nursing faculty supervision.

Background Checks and Drug Screen

A criminal background check and drug screen will be completed on students admitted to the School of Nursing prior to onset of first semester. Students must complete the process with the company designated by Washburn University and are responsible for all costs related to completing the background checks. Background clearance and drug screen must be completed and available to the School of Nursing

by July 1 for the fall semester and December 1 for the spring semester. Students who have not been cleared by this date will not be permitted to begin the semester, regardless of the outcome of the background check.

Nursing Students Employed by Clinical Agencies

Acknowledging the multiple roles in which students may function during their time in nursing school, it is important that role boundaries be maintained. Role boundaries may be applicable for students employed by the University as student workers, graduate students employed as School of Nursing faculty, as well as students who are employed by clinical agencies.

Students do not represent the University or the School of Nursing while working in an employment setting off campus. Students must maintain awareness of the boundaries that separate their performance and action as students from how they may function in roles outside of the SON educational setting.

Guidelines to demonstrate understanding of student versus employee roles include, but are not limited to the following

- Students shall not wear Washburn University scrubs and identification badges when employed in a clinical setting.
- Students shall not perform tasks or assume responsibilities in an employment setting not included in their job description.
- Students employed by Washburn University shall not share confidential or privileged information for which they may have access.
- Use of office equipment/materials is permitted, for faculty employment or tutoring services, but may not be used for personal assignments.

Students who demonstrate any role boundary problems will be counseled regarding these actions, which may result in sanctions by the either the Undergraduate Admissions, Progression and Retention Committee (UAPR) or the Graduate Admissions, Progression and Retention Committee. Washburn University liability insurance does not cover nursing students under employment conditions.

Policy Statement on Chemical Dependency

The School of Nursing, as a unit within Washburn University, prohibits the unlawful possession, use or distribution of illicit drugs and alcohol by students on University property or as part of any School of Nursing activities on or off campus. The School of Nursing faculty will follow federal, state and local laws as indicated in the Washburn University Student Disciplinary Code and Drug Free Workplace policy. Violators will be subject to disciplinary action by the University in accordance with University policies and procedures.

The School of Nursing will require students applying for admission to the School of Nursing to disclose any current chemical dependency and the nature of treatment being received. The School of Nursing will communicate to students the requirements of the Kansas State Board of Nursing for chemically dependent students who apply for licensure.

The School of Nursing defines chemical dependency as an illness in which alcohol and/or drug use interferes with the person's ability to function safely and affects the person's physical, emotional and social health. Chemical dependency is characterized by physical and

psychological dependence on drugs/alcohol and if untreated causes health, social and legal problems, and possibly death. The School of Nursing faculty believes it has a professional and ethical responsibility to students and patients to provide a safe teaching and learning environment.

The School of Nursing faculty will confront students who show signs of chemical dependency, or in whom there is suspicion of chemical dependency, and direct them into further assessment and evaluation. Drug screening is required of all students in certain clinical settings and also may be required at any time if suspicion of alcohol and/or drug use exists. When there is evidence of chemical dependency, students will be directed into a treatment program. Continuation of chemically dependent students in the School of Nursing depends on compliance with the treatment program and with the terms of a contract initiated by the Dean of the School with the student. The faculty will maintain a supportive attitude toward chemically dependent students during their treatment program and in the follow-up period. The faculty believes that students who comply with treatment and remain drug free can become safe practicing nurses.

Student Academic Integrity Policy

Academic integrity is essential for maintaining a standard of professional behavior expected of all students enrolled in the School of Nursing. Becoming a member of the School of Nursing obligates implicit and explicit adherence to academic integrity.

Academic integrity implies honesty in all aspects of the educational process and is essential for promotion of an optimum learning environment, and for the development of personal and professional responsibility and accountability in nursing students. Students in the School of Nursing are expected to conduct themselves in a professional manner according to the ANA Code for Nurses (see Student Handbook) and to adhere to all School of Nursing and University policies in any endeavor associated with School of Nursing activities, either on or off campus. Dishonesty, disruption of learning experiences, or any other form of academic impropriety or misconduct will not be tolerated. A partial list of proscribed behaviors pertaining to academic misconduct in the School of Nursing is included below. See also the University Student Disciplinary code (both of which are included in the University Catalog). A student shall be subject to disciplinary action or sanction upon violation of any of the following conduct proscriptions:

1. Disruption and disorderly conduct which interferes with the rights and opportunities of other students to pursue their academic studies.
2. Academic impropriety including, but not limited to:
 - Cheating on tests.
 - Copying from another student's test paper.
 - Using materials during a test not authorized by the person giving the test.
 - Collaboration with any other person during a test without authorization.
 - Attempting to obtain, or knowingly obtaining, using, buying, selling, transporting or soliciting in whole or in part the contents of an unreleased test or information about an unreleased test.
 - Bribing another person to obtain a copy of an unreleased test or information about an unreleased test.
 - Substituting for another student or permitting any other person to substitute for oneself to take a test.

- "Plagiarism," which means the appropriation of any other person's work and the unacknowledged incorporation of that work in one's own work offered for credit.
 - Submitting the same work for more than one course, unless authorized to do so by the instructors of all the courses in question.
 - "Collusion," which means the unauthorized collaboration with any other person in preparing work offered for credit.
3. Filing a formal complaint with the Associate VP of Student Life, University Police or other University officials(s) with the intention of falsely accusing another with having violated a provision of this code.
 4. Furnishing false information to the University with the intent to deceive, the intimidation of witnesses, the destruction of evidence with the intent to deny its presentation to University Officials.
 5. Forgery, alteration, unauthorized destruction, unauthorized use or misuse of university documents, records, identification cards, or computer services.
 6. Physically abusing, harassing, or intentionally inflicting severe emotional distress upon a member of the University community on or off campus; or physically abusing, harassing or intentionally inflicting severe emotional distress upon a non-member of the university community on campus or while engaged in university activities off campus.
 7. Intentional disruption or obstruction of teaching, research, administration, disciplinary proceedings, or other university activities or programs whether occurring on or off campus or of activities or programs authorized or permitted by the university to be conducted on campus.
 8. Unauthorized entry upon the property of the university or into a university facility or any portion thereof, including a computer file, which has been reserved, restricted in use, or placed off limits; unauthorized presence in any university facility after closing hours; or unauthorized possession or use of a key to any university facility.
 9. Violation on campus of any state or federal law or violation of any state or federal law off campus while participating in any university sponsored activity, including but not limited to sex offenses and/or sexual assault as defined by the laws for the State of Kansas.

Other Information

Program Expenses

Tuition and fees are established by the University Board of Regents and are subject to change at any time. Nursing courses are assessed at a higher per credit hour tuition rate than other undergraduate courses. Nursing students should anticipate additional costs for physical examinations, laboratory tests, immunizations, health insurance, CPR certification, laboratory supplies, textbooks, uniforms, transportation to clinical agencies, RN licensing fees, nursing pin, and graduation fees. Nursing students also are expected to have a bandage scissors, stethoscope, and other laboratory equipment. Laboratory packets are a required purchase. ATI - Assessment Technologies Institute is a product students are required to use for the duration of the Undergraduate nursing program. The cost for this product is billed at the beginning of each semester for four semesters to the student's account.

Nursing majors will be required to complete a comprehensive assessment and review program in preparation for registered nurse licensure. Students will receive curricular materials each semester and complete normative examinations in specific content areas in the second, third and fourth semesters of the curriculum. Students must

pass the RN Comprehensive Predictor Exam to successfully complete NU 494 Capstone/Seminar. The minimum passing score on the RN Comprehensive Predictor Exam, as noted in the NU 494 syllabus, is subject to change as the exam is revised on a regular basis.

Scholarships, Grants and Loans

Students who have been admitted to the School of Nursing and have above average academic records and/or a demonstrated financial need may apply for nursing scholarships through the School of Nursing. The application form is available on the School of Nursing website, www.washburn.edu/sonu (<http://www.washburn.edu/sonu/>). Nursing endowed scholarships are awarded by recommendation of the Dean of the School of Nursing. The Financial Aid Office disburses awards to student accounts. Deadlines for application for Fall and Spring Scholarships are February 15 and October 15 respectively. The Financial Aid Office (www.washburn.edu/financial-aid) (<http://www.washburn.edu/financial-aid/>) has additional information on other types of financial assistance available.

Student Nursing Organization

Student Nurses of Washburn - SNOW (See description and membership eligibility in Pre-licensure BSN Student Handbook).

Honors for Graduating Seniors

Nursing students who demonstrate academic excellence are recognized at the completion of their course of study. Two Honors designations are recognized. Both designations require Faculty Consensus Commendation to receive either School of Nursing Honors or School of Nursing Scholar. See the School of Nursing Pre-licensure BSN Student Handbook for complete details.

Graduation Awards

Members of each graduating class are eligible to be nominated and selected by the faculty for School of Nursing Awards. Criteria for each award is detailed in the Pre-licensure BSN Student Handbook. The awards include the Aletha J. Cushinberry Professionalism in Nursing Award; the Alice Jensen Award, the Spirit of Nursing award, and the Alice Young Award.

Dean's Honor Roll

Students whose grade point average for the semester is equivalent to 3.40 or better are honored by having their names placed upon the Dean's Honor Roll.

President's Honor Roll

Students whose grade point average for the semester is 4.00 are honored by having their names placed upon the President's Honor Roll and they are so notified by the President.

ROTC Programs

Air Force ROTC Program for Nursing Students

The University of Kansas Army ROTC Unit offers a cross-town enrollment program for nursing students interested in obtaining a commission in the U.S. Army Nurse Corps.

Naval ROTC Program for Nursing Students

Air Force ROTC Program for Nursing Students

Kansas State University Air Force ROTC Unit offers a cross-town enrollment program for nursing students interested in obtaining a commission in the U.S. Air Force Nurse Corps.

Degrees

- Pre-Licensure BSN (p. 299)
- LPN to BSN (p. 305)
- RN to BSN (p. 305)

Course Offerings

NU 102 Medical Terminology (1)

Introduction to basic terminology used in medical reports and treatment recommendations. Word compositions, prefixes, suffixes, and roots of medical terms are studied in relation to body systems. Extensive use of audiovisual media.

NU 103 Power Up: Success Online Learning (1)

Focuses on preparing students for success in the online learning environment. Designed to introduce students to the Washburn University learning management system and procedures for navigating, available support services, time management skills, strategies for learning online, netiquette, and self-assessment of learning styles. Students validate computer literacy and confirm they have the proper technology to work within online courses. Prerequisite: Admission to RN to BSN Program.

NU 220 Principles of Nutrition (3)

Principles of normal nutrition with emphasis on nutrient interrelationships, dietary assessment, and nutritional needs through the life cycle. Prerequisite: BI 100/BI 101.

NU 301 Applied Pharmacology for RNs (2)

Builds on previously learned knowledge of anatomy, physiology, chemistry, and genetics and introduces concepts of pharmacologic therapy for collaborative nursing practice. Selected medication categories are studied with emphasis on nursing responsibility, accountability, and safety. Case study-based critical thinking exercises focus learning on lifespan issues, patient assessment, and therapeutic response. Prerequisite: Admission to RN to BSN Program.

NU 302 Nursing for Military Healthcare Personnel (2)

This course content covers the assessment and nursing skills that supplements the content from the 68W or equivalent medic training. Students will learn additional assessment and nursing skills to enhance role development as a professional nurse. This is important information that will develop the knowledge, skills, and attitudes to provide holistic nursing care across the lifespan. Prerequisite: Admission to the Nursing program and approved military training (68W or equivalent).

NU 306 Health Assessment & Promotion (4)

Focuses on the complete health assessment, the nursing process, and its relationship to the prevention and early detection of disease in patients across the life span. Introduces processes of health assessment: interviewing, history-taking, and physical assessment. Dominant models, theories and perspectives are used to explain health behavior and considered in relation to evidence-based health promotion and health education strategies. Students are expected to identify and apply pathophysiological principles to selected health issues across the lifespan. Incorporated throughout the course is the importance of communication and collaboration across culturally diverse urban populations. Prerequisite: Admission to the nursing major.

NU 311 Fundamentals Nursing Practice/Practicum (6)

Provides students with the evidence-based theory, rationale and procedure for performing the skills needed for entry level nursing practice. Familiarizes the learner with the problem-solving process, basic communication, collaborative interaction, the teaching-learning process, and critical thinking. Emphasizes cultural influence on health care, the impact of local and global health policies and issues on the quality and safety in nursing practice, and health promotion and prevention of disease. Introduces the student to nursing as a professional discipline. Prerequisite: Admission to the nursing major.

NU 317 Applied Health Assessment for RNs I (2)

Focuses on comprehensive health assessment skills for the professional registered nurse. Expands on health assessment knowledge with an emphasis on health history, critical thinking, clinical reasoning, and advanced physical assessment techniques. Health assessment principles and techniques are expected to be identified and applied to health issues across the lifespan. Incorporated throughout the course is the importance of communication and collaboration across culturally diverse populations and developmental dimensions. Students are expected to identify and apply pathophysiological principles to selected health issues across the lifespan. This fully online course includes virtual simulation experiences. Prerequisite: Admission to RN to BSN Program.

NU 318 Professional Transformation (1)

Introduction to professional nursing expectations. Learning to establish therapeutic relationships is the foundation of professional nursing practice and requires personal accountability and a commitment to life-long learning. An emphasis is placed on legal issues and the principles of altruism, caring, ethics, communication. The value of self-care and reflection in relation to professional transformation is explored. Prerequisite: Admission to the nursing program.

NU 319 Applied Health Assessment for RNs II (2)

Focuses on the continuation of comprehensive health assessment skills for the professional registered nurse. Expand existing skills and knowledge processes of health assessment to include history taking, physical assessment, and application of clinical reasoning and critical thinking. Emphasis is placed on health promotion and disease prevention across the lifespan. Students are expected to identify and apply pathophysiological principles to selected health issues across the lifespan. Students also synthesize nursing knowledge and physical assessment skills to complete comprehensive health assessments on complex patient scenarios. This fully online course includes virtual simulation experiences. Prerequisite: NU 317 and Admission to RN to BSN Program.

NU 320 Pathophysiology I (3)

Introduces the student to pathophysiologic concepts related to the functional and structural changes that accompany disease processes. Focuses on general mechanisms of disease and the application of the basic concepts to body systems and selected disease processes. Prerequisite: Admission to nursing major or permission of instructor.

NU 321 Professional Transformation (1)

Introduces professional nursing expectations. Students learn to establish therapeutic relationships as the foundation of professional nursing practice and personal accountability. The communication of theory of TEAMSTEPS is incorporated throughout the course. The value of self-care and reflection in relation to professional transformation is also explored. Prerequisite: Admission to RN to BSN Program.

NU 322 Pharmacology I with Lab (2)

This introductory course builds on students' knowledge of anatomy, physiology, biology, chemistry, and genetics. Emphasis is placed on principles of pharmacokinetics, pharmacodynamics, and pharmacogenetics for major drug classes. Evidence-based guidelines and technologies related to safe medication administration to minimize the risk of harm and maximize benefit for patients are applied and evaluated in the lab portion of the course. The psychomotor skills for medication administration are practiced and evaluated for competency in this course. This includes mastery of drug dosage calculations. Prerequisite: Admission to nursing major or consent of instructor.

NU 323 Applied Pathophysiology for RNs I (2)

Designed for the professional registered nurse building on current knowledge and experience. Focuses on mechanisms of disease and recognition of the importance of clinical management across the lifespan. Students analyze risk factors and clinical manifestation associated with pathophysiological changes. Emphasis is placed on interpretation and prioritization of data. Prepares the professional nurse to critically approach complex situations systematically. Prerequisite: Admission to RN to BSN Program and NU 317 (can be taken concurrently).

NU 324 Pathophysiology II (2)

Focuses on the application of basic pathophysiology concepts to body systems and disease processes. The course builds on previous principles from NU 320 Pathophysiology I. Etiology of disease, prevention, manifestations, laboratory and diagnostic tests are discussed to provide a foundation to understand an individual's illness experience. Prerequisite: NU 320 or consent of instructor.

NU 325 Intro to Nursing Informatics (2)

Provides a systematic application of information and computer technology to related nursing practice. Emphasis is on integrating nursing practice systems and informatics technology. Examination of the evolution, future, and role of nursing informatics is discussed. Prerequisite: NU 311 or consent of instructor.

NU 326 Pharmacology II (2)

Builds on students' knowledge, skills, and professional attitudes acquired in pathophysiology I, pharmacology I, health assessment, and nursing fundamentals. Emphasis is placed on pharmacotherapeutics of agents used in the prevention, promotion, maintenance, and restoration of health in diverse individuals across the lifespan. Nursing implications and priority patient/family education relative to the utilization of drug therapy are examined. Prerequisite: NU 322 or consent of instructor.

NU 327 Applied Pathophysiology for RNs II (2)

Designed for the professional registered nurse and builds on current knowledge, experience, and Applied Pathophysiology I. Presents the pathophysiology of common variations according to body systems. Students analyze risk factor and clinical manifestations associated with pathophysiological changes. Emphasis continues to be placed on interpretation and prioritization of data, as well as on disease prevention and health promotion. Prerequisite: Admission to RN to BSN Program, NU 323, and NU 319 (can be taken concurrently).

NU 328 Evidence-Based Nursing (2)

Emphasizes appraisal of research studies as the foundation for evidence-based nursing practice. Prerequisites: MA 140 or equivalent and NU 311.

NU 329 Introduction to Nursing Informatics (2)

Provides a systematic application of information and computer technology to related nursing practice. Emphasis is on integrating nursing practice systems and information technology. Examination of the evolution, future, and role of nursing informatics is discussed. Prerequisite: Admission to RN to BSN Program.

NU 330 Indep Study - Nursing (1-3)

Advanced study and/or guided learning experiences in a selected area of nursing. Student defines objectives and learning experiences and selects faculty preceptor. Prerequisite: Consent.

NU 333 Stress Management for Nurses (2)

Discussion of stress theory and the effects stress has on the nurse, professionally and personally. Introduction and application of a variety of stress reduction interventions will be incorporated into each class. Prerequisite: NU 311.

NU 334 Interpreting Lab Tests and Diagnostic Modalities (2)

Interpretation of results of laboratory tests and diagnostic procedures with implications for nursing care of clients. Exploration of new technology used in diagnostic modalities. Prerequisite: NU 311.

NU 335 Special Topics/Nursing (0-3)

Selected subjects of relevance for nursing, announced in advance. Prerequisite: Consent.

NU 338 Nursing for Pain Management (2)

Application of nursing theoretical concepts in the care of clients with pain and comfort needs. Exploration of the nature of the pain experience, theories of pain transmission, types of pain and nursing interventions in the management of pain. Upper division nursing course designed to supplement basic knowledge in the care of patients with pain. Prerequisite: NU 311.

NU 341 Evidence-Based Nursing (2)

Emphasizes appraisal of research studies as the foundation for evidence-based nursing practice. Prerequisite: Admission to RN to BSN Program.

NU 347 Curricular Practical Training (1)

Provides international students the opportunity to gain experience in a USA-based health care system. Emphasis is on an immersion experience to better understand the nursing role within the US health care system. Practicum is a precepted experience. Prerequisites: 1) Acceptance into the undergraduate nursing program, 2) International student must have a student visa, 3) completion of two required Curricular Practical Training (CPT) forms through the Washburn Office of International Programs, 4) receipt of the CPT authorization on the I-20 document, and 5) approval of the chairperson of the School of Nursing International Studies Committee.

NU 356 Maternal/Women/Newborn Nursing (3)

The study of human life process from conception through the newborn period. Basic theory and concepts related to the maternity cycle, care of the newborn, and nursing care of the mother are emphasized. General knowledge of women's health is introduced. Hospital and community-based learning experiences are provided with individual families during the childbearing phase of the life process. Students utilize application of the nursing process with emphasis on family teaching and health promotion. Prerequisites: All Level 1 and Level 2 courses.

NU 386 Nursing of Older Adults (6)

Designed to build upon learning in previous nursing courses with an emphasis on the aging phase of the life process. Assimilation of intellectual, interpersonal, and technological skills is stressed in caring for adults in varying stages of health in a variety of settings. Practicum experiences emphasize the life process of adulthood and aging. Integration of nursing science into the problem-solving process and extension of intellectual, interpersonal, and clinical skills in the nursing care of older adults, in varying stages of health, in the acute care setting. Prerequisites: All Level 1 courses.

NU 441 Adult Medical-Surgical Nursing Integrative Seminar (1)

Provides uniform mastery and reflective learning experiences to promote the integration of quality health care concepts into nursing practice. Emphasis is placed on holistic, patient-centered, safe, effective, timely, efficient, and equitable health care for patients and families experiencing health crises in a simulated environment. Prerequisites: All Level 1 and Level 2 courses and health clearance.

NU 448 Psychiatric Mental Health Nursing (3)

Basic theories and concepts related to psychiatric care of children, adolescents, adults, and older adults are presented. Emphasis on psychopharmacological and nursing management establishes the basis for mental health care and provides knowledge necessary for a beginning practitioner. Practicum experiences provide opportunities for application of theories and concepts related to the care of psychiatric clients. Emphasis on knowledge of psychopharmacological and nursing management as well as advanced communication skills provide the basis of the clinical experiences in psychiatric nursing necessary for the preparation as a beginning practitioner. Prerequisites: All Level 1 courses.

NU 450 Leadership, Management, Health Policy (2)

Leadership skills emphasize ethical and critical decision-making, initiating and maintaining effective working relationships, communication and collaboration within interprofessional healthcare teams, care coordination, delegation, and development of conflict resolution strategies. Provides a basic overview of complex systems and the impact of power, politics, policy, and regulatory guidelines to these systems. Prerequisites: All Level 1 courses or consent.

NU 451 Leadership, Mgmt, Hlth Policy (2)

Focuses on leadership skills that emphasize ethical and critical decision-making, initiating and maintaining effective working relationships, communication and collaboration within interprofessional healthcare teams, care coordination, delegation, and developing conflict resolution strategies. Students obtain a basic understanding of complex systems and the impact of power, politics, policy, and regulatory guidelines on these systems. Prerequisite: Admission to RN to BSN Program.

NU 456 Adult Medical-Surgical (7)

Theory and concepts related to evidence-based nursing care of adult individuals, families, and groups with varying health-illness needs in a variety of settings. Emphasis is placed on integrating knowledge obtained from natural and social sciences, health assessment, pathophysiology, pharmacology and therapeutic nursing interventions to provide holistic health care with an emphasis on evidence-based, quality, and safe nursing care for baccalaureate generalist. Practicum builds on skills and practice in previous and current courses. Students provide, delegate, and manage care of individual patients and their families in complex health care settings. Students apply evidence, clinical judgment, interprofessional perspectives, and patient preferences in the development and implementation of individual health solutions for patients. Prerequisites: All Level 1 and Level 2 courses.

NU 462 Quality and Safety in Healthcare (3)

System leadership, quality improvement, and safety concepts are presented to promote high quality nursing practice in healthcare settings. Emphasis is placed on the application of evidence-based knowledge from the contemporary sciences and communication with interprofessional healthcare (IHCT) members. Prerequisites: All Level 1, 2 and 3 courses or consent.

NU 463 Quality and Safety in Healthcare (2)

System leadership, quality improvement, and safety concepts are presented to promote high quality nursing practice in healthcare settings. Emphasis is placed on the application of evidence-based knowledge from the contemporary sciences and communication with interprofessional healthcare team members. Prerequisite: Admission to RN to BSN Program.

NU 465 Clinical Prevention and Population Health (3)

Uses the ecological model to explore the determinants of health of aggregates, communities, and populations. Emphasizes public health science and epidemiology principles to guide students in the identification of the social, cultural, environmental and legislative issues within complex community systems. In practicum settings students examine clinical prevention and health promotion strategies for effectiveness, efficiency and equity, and work collaboratively with other health care professionals to identify resources and strategies that contribute to the populations' overall health status. Prerequisites: All Level 1, 2, and 3 courses.

NU 467 Clinical Prevention and Population Health Management/ Practicum (3)

In this population-focused course, students use the ecological model to explore the determinants of health of aggregates, communities, and populations. Emphasizes public health science and epidemiology principles to guide students in the identification of the social, cultural, environmental, and legislative issues within complex community systems. During the practicum, students examine clinical prevention and health promotion strategies for effectiveness, efficiency and equity, and work collaboratively with other health care professionals to identify resources and strategies that contribute to the population's overall health status. Prerequisite: Admission to RN to BSN Program.

NU 468 Pediatric Medical-Surgical Nursing (3)

Designed to focus on basic theory and concepts related to adults, children and their families in varying stages of health (and in specialty settings). Emphasis is placed on understanding situational crises of illness with adults, children and families in complex care environments. The practicum is designed to allow students to apply principles of leadership, integrate best evidence in practice, and integrate knowledge, skills, and attitudes in caring for adults, children, and their families in varying stages of health in specialty settings. Prerequisites: All Level 1, 2 and 3 courses.

NU 494 Capstone/Seminar (5)

In this final upper-division nursing practicum students integrate all previous theoretical and clinical learning. The focus is on consolidation of clinical and leadership skills and practice coordination and delegation of care. In seminar groups students process clinical experiences; focus on ethical, leadership, management, and practice issues; and prepare for the NCLEX-RN examination. Prerequisites: All Level 1, 2, and 3 courses; Co-requisites: NU 462, NU 465, and NU 468.

NU 495 Leadership Capstone Seminar/Practicum (3)

Students integrate all previous theoretical and clinical learning in a role not experienced within their current jobs. Clinical experience consolidates leadership skills allowing students to practice coordination and delegation of care. Seminars assist students to process the clinical experience and focus on ethical, leadership, management, and practice issues. Prerequisite: Admission to RN to BSN Program.

Pre-Licensure BSN

Description of the Program

The baccalaureate program in nursing at Washburn University is designed to prepare students as professional nurses. The focus of the program is the study of the individual and family life process from conception through aging, in varying stages of health within the context of community. The nursing curriculum builds upon and augments courses in the humanities and the natural and social sciences and provides for application of this general education throughout the nursing major. Emphasis is on the development of the student as an integrated professional person. The basic program is four academic years in length.

An advantage of the School is its urban focus and access to Topeka's health care facilities that provide excellent learning environments for clinical learning experiences. Clinical experiences are coordinated with the theoretical content in nursing and are planned to meet specific objectives. A variety of community facilities are utilized including nursery schools, clinics, public health agencies, hospitals, physicians' offices, and private homes. Community resources are selected according to their potential for illustrating principles and theories students are studying simultaneously in the classroom. Multiple resources may be used in any given course as deemed appropriate to meet course objectives.

Graduates of the program are prepared to function as generalists in nursing. They assume professional responsibility for health promotion, for care of people in acute and chronic illness, and for provision of supportive and restorative measures for realization of optimum health potential. Graduates of the baccalaureate program are eligible for examination for licensure as registered nurses and have the foundation for graduate study in nursing.

The baccalaureate nursing program was established at Washburn University in 1974 as a department within the College of Arts and Sciences. In 1982, the program was granted School of Nursing status and operates as one of the major academic units of the University.

Accreditation

The Baccalaureate Degree in Nursing, Master's Degree in Nursing, Doctor of Nursing Practice Degree, and Post-Graduate APRN Certificate Program at Washburn University are accredited by the Commission on Collegiate Nursing Education (<https://www.aacnursing.org/CCNE>) (<https://www.aacnursing.org/CCNE/>). The Pre-licensure BSN Program and all graduate APRN programs are approved by the Kansas State Board of Nursing. The DNP program was accredited by the Higher Learning Commission in the fall of 2012.

Student Learning Outcomes of the Baccalaureate Program

At the completion of the nursing curriculum, the new graduate will:

- Apply principles of leadership to deliver quality patient care in complex systems.
- Integrate evidence, clinical judgment, interprofessional perspectives, and patient preferences in the planning, implementation, and evaluation of patient care.
- Demonstrate skill in using patient care technologies, information systems, and communication devices to support quality nursing practice.
- Practice strategies to change local and global health policy by influencing sociocultural, economic, legal, and political systems.
- Integrate interprofessional communication patterns into nursing practice.
- Participate with community partners in clinical prevention and population-focused interventions that are timely, effective, safe, efficient, equitable, and patient-centered.
- Incorporate professional values in formulation of ethical comportment and personal accountability for nursing practice.
- Integrate knowledge, skills, and attitudes necessary for baccalaureate generalist nursing practice.

RN Licensure

Graduates of the nursing program are eligible to apply for licensure as a registered nurse from the Kansas State Board of Nursing or other State Boards of Nursing. To become licensed, graduates must complete the nursing program as verified by the Registrar and the Dean of the School; submit required applications, photos, fees, fingerprints, and transcripts; receive a passing score on the national licensure exam (NCLEX-RN) and meet all other requirements stipulated by the Board of Nursing. Graduation from the nursing program does not guarantee licensure as a registered nurse.

Nursing licenses may be denied by the Kansas State Board of Nursing (KSBN). Possible grounds for such action may include being guilty of a felony or misdemeanor involving an illegal drug offense if the KSBN determines that such person has not been sufficiently rehabilitated to warrant the public trust. All criminal history must be revealed to and will be evaluated by the KSBN before licensure is granted or denied.

Nursing Continuing Education

The School of Nursing is a Kansas State Board of Nursing approved provider of mandatory continuing education for registered nurses and licensed practical nurses. A series of workshops, seminars, and conferences that provide continuing education contact hours are offered each year through the School of Nursing. College credit nursing courses offered through the School of Nursing also meet continuing education requirements for RN re-licensure.

Eligibility for Graduation

Students who fulfill university and School of Nursing requirements for graduation are eligible for graduation and for attainment of the degree, Bachelor of Science in Nursing (BSN). Candidates for graduation must have on file in the University Registrar's Office,

1. a declaration of major on file;
2. a completed Application for Degree form; and
3. a degree audit.

The Dean of the School of Nursing, in conjunction with the University Registrar, validates that prospective graduates have completed all

requirements for graduation. The University confers degrees at the end of each semester and at the end of the summer session. Students who are scheduled to complete final requirements for the degree and major during the following summer term may be permitted to participate in the Spring Commencement.

Admission

Students may apply for admission to the School of Nursing for Fall or Spring semester when meeting the following criteria:

- Completion of 30 hours of Washburn University general education requirements and School of Nursing prerequisite courses.
- Have a cumulative grade point average of 2.70 (minimum).

The following items are required for application:

- School of Nursing application
- Official transcripts from all colleges or universities attended, sent directly to the School of Nursing or to the University Admissions Office at etranscripts@washburn.edu
- Two Reference Statements (forms provided)
- Washburn University application if not already a student at Washburn
- Written interview – questions provided in application packet

Applications are accepted September 1 to November 1 for Fall admission and March 1 to May 1 for Spring admission a year prior to expected date of entry into the program. To qualify for the WU academic scholarship, the university application and updated transcripts are due to the Admissions office by February 15. (School of Nursing scholarship requires separate application due August 15th and February 15th in School of Nursing office.)

Students transferring from another nursing program are required to submit the following additional documents to be considered for admission and/or placement in the nursing curriculum:

- A course syllabus for all completed nursing courses so that transfer credit may be awarded for equivalent nursing coursework.
- A letter of recommendation from the Dean or Chairperson that addresses the student's academic standing at the time of transfer.
- A letter from the student describing their reason for requesting a transfer.
- Applicants who have been previously dismissed from a nursing program will be considered for admission on an individual basis and space availability. A personal interview with a member of the faculty may be required of applicants for assessment of qualifications.

The School of Nursing Undergraduate Admission, Progression, and Retention (UAPR) Committee reviews applications and admits qualified applicants to fill available positions. A personal interview with a member of the faculty may be required of applicants for assessment of qualifications. Students are selected for admission to the nursing major without discrimination in regard to race, color, religion, age, national origin, ancestry, disability, gender, marital or parental status, or sexual orientation. The School of Nursing adheres to policies of non-discrimination as defined by various federal and state laws and regulations.

The School of Nursing seeks applicants who exhibit the interpersonal skills and behaviors that enable them to work compatibly with others in both the classroom and the clinical area. Applicants seeking admission should demonstrate emotional maturity, personal integrity, and ethical

responsibility. Applicants also should possess the flexibility to deal with unexpected situations and should demonstrate a willingness to utilize constructive feedback to develop professional behaviors. The School of Nursing reserves the right to withhold admission to or withdraw students from the program who do not demonstrate these attributes. If the UAPR Committee is aware of a prospective student's behavioral issues in pre-nursing or other classes, the Committee will require a FERPA release to conduct an investigation into those incidents prior to making a decision about admission.

Students with disabilities may voluntarily identify themselves to their course instructors to request accommodations. The Office of University Diversity and Inclusion, located in Morgan Hall, is available to students for assistance in arranging reasonable accommodations and identifying resources on campus.

Applicants who have been convicted of a felony may be considered for admission only if, in the judgment of the UAPR Committee, the applicant has been satisfactorily rehabilitated. However, applicants for admission should be aware that current Kansas law provides that no license or authorization to practice nursing as a licensed professional nurse, as a licensed practical nurse, as an advanced practice registered nurse or registered nurse anesthetist shall be granted to a person with a felony conviction for a crime against persons as specified in Article 34 of Chapter 21 of the Kansas Statutes Annotated, prior to their appeal, or article 54 of Chapter 21 of the Kansas Statutes Annotated, or other applicable state statutes. Newly admitted students will complete a background check and drug screen as part of clearance prior to beginning nursing classes.

Students are advised that nursing licenses may be denied or disciplined by the Kansas State Board of Nursing (KSBN). Possible grounds for such action may include being guilty of a felony or misdemeanor involving an illegal drug offense if the KSBN determines that such person has not been sufficiently rehabilitated to warrant the public trust. Also considered are patterns of practice and other behaviors exhibiting an apparent incapacity to practice nursing. All criminal history must be revealed to and will be evaluated by the KSBN before licensure is granted or denied. **Admission to and graduation from the School of Nursing does not guarantee that a student will be eligible for licensure.**

Professional Aptitudes, Abilities and Skills and Essential Requirements for Nursing

School of Nursing admissions are based on academic achievement and additional program specific non-academic criteria that can be referenced in the catalog. Essential Requirements have been established identifying the occupational specific technical skills and standards required of students in the program. Meeting these standards is necessary for students to become successful in both their clinical coursework and later in their profession. Decisions to apply for admission to the School of Nursing BSN program should be made after considering the program Essential Requirements.

It is the responsibility of the faculty to be concerned with the rights of patients and to only place students that are capable of providing safe, high quality health care in clinical sites. The following list represents reasonable expectations for the student enrolled in the BSN nursing program at Washburn University. **It is the responsibility of program**

applicants to carefully review the essential requirements and ask questions, if not familiar with the standards and skills listed.

Certain chronic or recurrent illnesses and problems that interfere with patient care or safety may be incompatible with nursing skills or clinical practice. Conditions that may lead to a high likelihood of student absenteeism should be carefully considered. Deficiencies in knowledge, judgment, integrity, character, or professional attitude or demeanor which may jeopardize patient care may be grounds for course/clinical failure and possible dismissal from the program. All applicants to the program must have the ability to meet the standards and skills listed below, with or without reasonable accommodation, if accepted to the program in order to complete the educational requirements for the applicable degree.

If a student cannot demonstrate the following standards and skills without reasonable accommodation, it is the responsibility of the student to request an appropriate accommodation with the Office of University Diversity and Inclusion by the application deadline. The School of Nursing is committed to the principle of equal opportunity as defined in this catalog and will provide reasonable accommodation as long as it does not fundamentally alter the nature of the program offered, does not compromise patient safety, or impose an undue hardship.

Essential Requirements

Mandatory Requirements

- Current American Heart Association Basic Life Support Completion Card for the healthcare provider
- Satisfactory Physical Examination (on program-specific form)
- Health insurance maintained throughout program
- Criminal history or record search
- Drug Screen

Current Immunizations

- Hepatitis B series and titer (booster or additional series may be required if immunity not achieved)
- Tetanus (within 10 years)
- 2 MMR (only 1 if born before 1957)
- TB skin test or negative chest radiograph (current for the year.) Two step testing on admission, one step annually thereafter.
- Varicella Zoster titer (vaccine may be required if immunity not achieved)
- Rubella and Rubeola titer (vaccine may be required if immunity not achieved)
- Influenza
- Others as mandated by clinical practice sites

Mobility and Motor Ability

The use of motor skills to execute gross and fine motor movements required to provide assessment, general care and emergency treatment of clients. Examples of such skills include but are not limited to the ability to:

- Walk, bend, stand, kneel, sit, stoop or crawl to perform patient care activities and administer patient interventions or assist with equipment or to administer emergency care (CPR).
- Reach above head in standing, to adjust and position equipment.
- Lift, pull, guide, transfer a patient of up to 150 lbs; lift, pull, guide, transfer a patient of up to 250 lbs using a two-man technique.
- Guide, resist and assist adult patients (or classmates) during patient transfers, ambulation, interventions and exercises, using your arms,

legs or trunk to provide the necessary stabilization for a patient when performing patient care.

- Walk for extended periods of time; climb stairs & inclines while safely guarding an unstable patient.
- Assume a wide base of support, balance to guard, maintain and correct balance of an unstable patient on flat surfaces, inclines and stairs. Perform all patient physical assistance using safe and proper body mechanics.
- Demonstrate bilateral manual dexterity to perform clinical skills such as administering medications, initiating intravenous therapy, catheter insertion and dressing changes and assist with activities of patient care.
- Physical capacity to perform all essential skills and procedures to complete twelve hour work days and a 40 hour work week during nursing clinical experiences.

Sensory Abilities and Observation

The use of assessment skills such as observing faculty demonstrations, obtaining a health history from the client, and directly observing a client's health condition. Students must be able to perform sensory skills (auditory, visual, and tactile) necessary to assess accurately the health status of clients. Examples of such skills include but are not limited to the ability to:

- See (with or without corrective lenses) patient skin, discriminate color changes, facial expressions and non-verbal communications, normal and abnormal patterns of movement; the environment for up to 20 feet; to read the electronic medical record and set parameters on patient care and monitoring equipment, and detect small calibrations on measuring instruments.
- Hear soft voices, masked voices, patient call systems, alarms, timers, hear with a stethoscope to assess blood pressure, heart, lung and abdominal sounds.
- Feel to discriminate small and large temperature differences; palpate pulses, discriminate sharp and dull, light touch and deep pressure sensation.
- Smell to detect odors related to patient assessment.

Communication

Communication with patients, members of the health care team and families in settings where communication typically is oral or written and in settings when time span for communication is limited. Examples of such skills include but are not limited to the ability to:

- Speak and express clearly and understandably in the English language, information to peers, faculty, patients, their families and other health care providers; demonstrate active listening skills.
- Read typed, handwritten, chart data and computer-generated documents in the English language; at a level of competency that allows safe and timely execution of essential tasks or assignments.
- Understand, interpret medical terminology and information given regarding status, progress and safety of a patient; to follow simple and complex instructions (oral or written) regarding patient care; and respond to non-verbal communication/behaviors of others.
- Follow directions accurately and efficiently, seeking clarification where necessary.
- Write to produce legible handwritten or computer word processed documents; use correct medical terminology, spelling, grammar and punctuation; organize and express thoughts in written form in the

English language; to prepare accurate, thorough, legally defensible patient documentation.

- Interpersonal skills to work collaboratively; interact professionally; to establish rapport with patients, colleagues and classmates; to resolve conflicts with individuals from a variety of social, emotional, cultural and intellectual backgrounds; maintain confidentiality in all interactions.

Intellectual, Conceptual, Integrative, and Quantitative Abilities

Critical thinking, problem solving and teaching skills necessary to provide care for individuals, families and groups. Examples of such skills include, but are not limited to the ability to:

- Think critically to identify and solve problems; identify cause/effect relationships; to apply reading, lecture and laboratory information to case study preparation; to employ effective teaching, learning and test taking strategies.
- Comprehend relevant information regarding patient diagnoses, nursing interventions, indications and contraindications from textbooks, medical records and professional literature.
- Prioritize events to provide for patient safety; appropriate patient interventions; multiple tasks; integrate information and make decisions about sequence and progression.
- Calculate to collect and/or interpret accurate patient data.
- Make clinical decisions to respond quickly and appropriately to changes in patient status; to analyze written, observed or verbal data about patients and make decisions to contact health care provider for clarification of orders and modify the nursing care plan; act safely & ethically in the nursing laboratory and clinical settings.
- Demonstrate short-term and long-term memory to accurately and quickly remember data from the chart and information relayed in verbal exchanges with other members of the health care team; to access learned knowledge to include but not limited to diagnoses, indications, contraindications for interventions, safety precautions, subjective reports of patients, emergency procedures; safety procedures; to participate successfully in the learning and evaluation of knowledge within the curriculum.
- Think quickly and clearly to execute all duties unimpaired by any condition or substance that alters mental processing, speed or quality of thought processes or judgment.

Behavioral and Social Characteristics

The ability to provide care that is client centered and shows respect for human dignity and the uniqueness of each individual, free from bias and discrimination, and without consideration for personal attributes or the nature of health problems. Students must be emotionally stable. Examples of such skills include but are not limited to the ability to demonstrate:

- Flexibility to adjust to a constantly changing and very demanding full-time schedule.
- Compassion and respect and ability to show empathy for patients and their families; for people of all personality types, backgrounds, ethnic race or socioeconomic backgrounds and medical condition/diagnosis.
- Cooperation to work as a member of a team; develop positive and effective relationships with faculty, clinicians, peers and patients.

- Recognition of limitations to request assistance when needed; accept correction and constructive suggestions; assume responsibility for personal development; utilize resources effectively.
- Tolerance for close physical contact with patients, peers and classmates during the provision of interventions and in lab; for close proximity and physical contact with patients that require use of standard precautions during therapy due to open wounds, incontinence or other potential exposure to bodily fluids or pathogens during treatment.
- Willingness to participate in lab activities that require palpation, measurement and other forms of therapeutic touching of patients; to serve as both the patient model and clinician during patient simulations that allow classmates to practice and perfect nursing skills.
- Ability to attend class and clinic promptly and regularly; to stay focused and on task in lecture and laboratory instructional time; to submit work products promptly when due; to submit to all classroom and clinical rules/policies; to demonstrate respect for other health care providers and the profession of nursing; to comply with all legal and ethical standards of practice.
- Stress management coping skills for fast-paced clinical situations; to manage multiple academic deadlines; deal effectively with psychosocial issues of catastrophic illness, disability and death, respond appropriately in a stressful environment and during impending deadlines; manage personal matters outside of class/clinical work day.
- The ability to plan ahead to arrange transportation and living accommodations for/during off campus clinical assignments to foster timely reporting to the classroom and clinical centers.
- Self care to maintain general good health and hygiene in order not to jeopardize the health and safety of self and individuals with whom one interacts in the academic and clinical settings.
- Initiative, enthusiasm and appropriate peer and patient interactions.

Applicants with English as a Second Language

Applicants with English as a second language must demonstrate proficiency in both oral and written English. To be considered for admission, applicants are required to submit iBT (internet based TOEFL) exam scores to the School of Nursing. The minimum score for each section is:

Section	Minimum Score
Writing	20
Speaking	20
Reading	19
Listening	20

Original scores are due in the School of Nursing, November 1 (fall applicants) or May 1 (spring applicants).

Degree Requirements

Requirements Common to All Bachelor Degrees

The student must meet the requirements common to all bachelor degrees established by the University. (See Requirements Common to all Degrees in the index.)

Requirements for the Degree Bachelor of Science in Nursing

The curriculum is designed to be completed in four academic years and leads to the degree Bachelor of Science in Nursing (BSN). Because of a required sequence for prerequisites and nursing courses, those interested in the program should contact the School of Nursing early in their program of studies for advisement. Application to the major generally is made the first semester of the sophomore year for admission to the nursing major in the first semester of the junior year.

Baccalaureate Nursing Curriculum

The following courses are required for all students who seek a baccalaureate nursing degree.

Code	Title	Hours
General Education Requirements		
<i>Humanities</i>		
Select 9 credit hours from 2 subject areas: ¹		9
	English	
	Philosophy	
	Religion	
	Music	
	Art	
	Mass Media	
	Modern Foreign Language	
	Theater	
	Communication	
<i>Social Sciences 9 credit hours total in 2 subject areas</i>		
PY 100	Basic Concepts in Psychology ²	3
General education approved Social Sciences		6
<i>Natural Sciences and Mathematics</i>		
BI 100	Introduction to Biology ²	3
BI 101	Introductory Biology Laboratory ²	2
BI 275	Human Anatomy (with lab) ²	4
BI 255	Human Physiology (with lab) ²	4
CH 121	General, Organic, and Biological Chemistry ²	5
BI 206	Introductory Microbiology (with lab) ²	4
MA 140	Statistics ²	3
<i>Supporting Courses</i>		
NU 220	Principles of Nutrition ²	3
Subtotal		46
University Requirements		
EN 101	First Year Writing	3
EN 300	Advanced College Writing	3
WU 101	The Washburn Experience	3
Select one of the following: ³		3
MA 112	Contemporary College Mathematics	
MA 116	College Algebra	
Subtotal		12
Unrestricted Electives		
Electives ⁴		1-6
Subtotal		1-6
Nursing Major Requirements		

NU 306	Health Assessment & Promotion	4
NU 311	Fundamentals Nursing Practice/Practicum	6
NU 318	Professional Transformation	1
NU 320	Pathophysiology I	3
NU 322	Pharmacology I with Lab	2
NU 324	Pathophysiology II	2
NU 325	Intro to Nursing Informatics	2
NU 326	Pharmacology II	2
NU 328	Evidence-Based Nursing	2
NU 356	Maternal/Women/Newborn Nursing	3
NU 386	Nursing of Older Adults	6
NU 441	Adult Medical-Surgical Nursing Integrative Seminar	1
NU 448	Psychiatric Mental Health Nursing	3
NU 450	Leadership, Management, Health Policy	2
NU 456	Adult Medical-Surgical	7
NU 462	Quality and Safety in Healthcare	3
NU 465	Clinical Prevention and Population Health	3
NU 468	Pediatric Medical-Surgical Nursing	3
NU 494	Capstone/Seminar	5
NU Nursing Elective		2
Subtotal		62
Total Hours		121-126

¹ Three hours of Music, Art, or Theater are required

² Courses must be satisfactorily completed with a grade of "C" or better prior to nursing courses

³ Unless exempt

⁴ May include general education courses, algebra courses, nursing elective courses or independent study

Total Credit Hours Required (120)

General Education: 58 hours

Nursing Major: 62 hours

Pass/Fail Option

Humanities and elective courses may be completed on a pass/fail basis (see University policy on pass/fail option).

Required natural and social sciences, mathematics, supporting courses, English composition courses (listed above), and courses in the nursing major must be completed with a letter grade of C or better. Please seek advisement with questions regarding pass/fail options.

Generic Curriculum Pattern

Course	Title	Hours
First Year		
Fall		
BI 100	Introduction to Biology	3
BI 101	Introductory Biology Laboratory	2
EN 101	First Year Writing	3
MA 112	Contemporary College Mathematics	3
WU 101	The Washburn Experience	3
	Hours	14

Spring		
NU 220	Principles of Nutrition	3
CH 121	General, Organic, and Biological Chemistry	5
PY 100	Basic Concepts in Psychology	3
Humanities #1		3
	Hours	14

Second Year

Fall

BI 275	Human Anatomy	4
BI 206	Introductory Microbiology	4
Humanities #2		3
Social Science Elective		3
	Hours	14

Spring

BI 255	Human Physiology	4
EN 300	Advanced College Writing ¹	3
Humanities #3		3
MA 140	Statistics	3
Social Science Elective		3
	Hours	16

Third Year

Fall

Level 1

NU 306	Health Assessment & Promotion	4
NU 311	Fundamentals Nursing Practice/Practicum	6
NU 318	Professional Transformation	1
NU 320	Pathophysiology I	3
NU 322	Pharmacology I with Lab	2
	Hours	16

Spring

Level 2

NU 324	Pathophysiology II	2
NU 326	Pharmacology II	2
NU 328	Evidence-Based Nursing	2
NU 386	Nursing of Older Adults	6
NU 448	Psychiatric Mental Health Nursing	3
NU Nursing Elective		2
	Hours	17

Fourth Year

Fall

Level 3

NU 325	Intro to Nursing Informatics	2
NU 441	Adult Medical-Surgical Nursing Integrative Seminar	1
NU 356	Maternal/Women/Newborn Nursing	3
NU 450	Leadership, Management, Health Policy	2
NU 456	Adult Medical-Surgical	7
	Hours	15

Spring

Level 4

NU 462	Quality and Safety in Healthcare	3
NU 465	Clinical Prevention and Population Health	3

NU 468	Pediatric Medical-Surgical Nursing	3
NU 494	Capstone/Seminar	5
Hours		14
Total Hours		120

¹ If student has completed 60+ credit hours

LPN to BSN

The LPN to BSN articulation program at Washburn University is specifically designed for licensed practical/vocational nurses (LPNs) seeking to earn a Bachelor of Science Degree in Nursing. Qualified students who have graduated from a Kansas State Board of Nursing approved school will receive fifteen (15) credit hours of college coursework. These students will receive credit for the following courses.

Code	Title	Hours
NU 220	Principles of Nutrition	3
NU 311	Fundamentals Nursing Practice/Practicum	6
NU 386	Nursing of Older Adults	6

LPN student graduates from out-of-state programs may be eligible for advanced credit upon review of transcripts. The LPN to BSN articulation student will need to complete the remaining general education courses and nursing requirements. Interested students need to make an appointment with a nursing advisor.

Credit for courses listed above will be posted on the Washburn University transcript after being officially accepted to the nursing major. Course work will be posted on transcripts as "CR" for credit without a letter grade. These courses will not count in computation of grade point averages.

RN to BSN

The Online RN-BSN Program at Washburn University School of Nursing is designed specifically for registered nurses seeking to earn a Bachelor of Science in Nursing (BSN) degree. The program offers affordability and flexibility.

- Courses are offered online in 8-week sessions.
- Students may complete the program in 18 months.
- A minimum of 120 credit hours is required for graduation.
- At least 30 hours must be completed at Washburn University.
- Courses completed at other accredited institutions are considered for transfer, provided the grade received is "C" (2.0) or above.
- Students are awarded 32 credit hours with successful completion of the NCLEX-RN examination.

Prerequisite Requirements

- **Humanities: 6** (English, Philosophy, Religion, Mass Media, Communication, Foreign Language)
- **Music, Theatre, Art: 3**
- **Social Science: 9** (General Psychology, and two Social Science electives)
- **Natural Science & Mathematics: 20** (Anatomy, Physiology, Chemistry, Microbiology, Statistics)
- **Unrestricted Electives: 10-14**

- **University Requirements: 9** (First Year Writing, Advanced College Writing, College Algebra)

Total credit hours: 56

RN Articulation Advisement and Admission Procedures

Successful completion of the online application package inclusive of the following requirements is necessary for admission:

- Washburn University and RN-BSN Program applications
- Graduate of an approved/accredited associate degree or diploma nursing program
- Official transcripts from each higher education institution attended
- Minimum cumulative GPA of 2.5 on a 4.0 scale
- Copy of current active, unencumbered, valid license as an RN in the state of residency
- Current resume
- Completion of all required prerequisite courses with a grade of C or better

Applications for Fall session admission are accepted through April 1. Applications for Spring session admission are accepted through September 1. Potential candidates must complete all application materials to be considered for admission. Once admitted, students will receive academic advisement from the Director of Online Student Services, who will assist the student in developing an individualized degree plan. A final degree check is made by the Program Director and the Registrar's office prior to graduation to determine eligibility for graduation based on completion of all general education and nursing requirements for the degree Bachelor of Science in Nursing.

Degree Requirements

Code	Title	Hours
NU 103	Power Up: Success Online Learning	1
IL 170	Library Research Strategies	1
EN 300	Advanced College Writing (for RNs)	3
NU 301	Applied Pharmacology for RNs	2
NU 317	Applied Health Assessment for RNs I	2
NU 319	Applied Health Assessment for RNs II	2
NU 321	Professional Transformation	1
NU 323	Applied Pathophysiology for RNs I	2
NU 327	Applied Pathophysiology for RNs II	2
NU 329	Introduction to Nursing Informatics	2
NU 341	Evidence-Based Nursing	2
NU 451	Leadership, Mgmt, Hlth Policy	2
NU 463	Quality and Safety in Healthcare	2
NU 467	Clinical Prevention and Population Health Management/Practicum	3
NU 495	Leadership Capstone Seminar/Practicum	3
Total Hours		30

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- The Board of Regents (p. 306)
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- Master of Business Administration (MBA) (<https://catalog.washburn.edu/graduate/school-business/business-administration-graduate-programs/master-business-administration-mba/>)
- Master of Criminal Justice (MCJ) (<https://catalog.washburn.edu/graduate/school-applied-studies/criminal-justice-graduate-programs/master-criminal-justice-mcj/>)
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- Master of Studies in Law (<https://catalog.washburn.edu/graduate/school-law/master-studies-law/>)
- Post-Graduate Certificate in Health Care Education (<https://catalog.washburn.edu/graduate/school-applied-studies/post-graduate-certificate-health-care-education/>)
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Graduate Programs

- Doctor of Nursing Practice (DNP) (<https://catalog.washburn.edu/graduate/school-nursing/doctor-nursing-practice-dnp/>)
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- Dual Degree - School of Law (J.D.) & School of Business (MAcc) (<https://catalog.washburn.edu/graduate/school-business/master-accountancy-macc/dual-degree-school-law-jd-school-business-macc/>)
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- Juris Doctor Degree (<https://catalog.washburn.edu/graduate/school-law/juris-doctor-degree/>)
- LL.M. in Global Legal Studies (<https://catalog.washburn.edu/graduate/school-law/llm-global-legal-studies/>)
- Master of Accountancy (MAcc) (<https://catalog.washburn.edu/graduate/school-business/master-accountancy-macc/master-accountancy-macc/>)

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- Automotive Collision & Refinishing Technology (<https://catalog.washburn.edu/washburn-institute-technology/programs-technical-certificates-graduation-requirements/certificate-programs/automotive-collision-repair/>)
- Automotive Technology (<https://catalog.washburn.edu/washburn-institute-technology/programs-technical-certificates-graduation-requirements/certificate-programs/automotive-service-technology/>)

B

- Business Bookkeeping & Accounting (<https://catalog.washburn.edu/washburn-institute-technology/programs-technical-certificates-graduation-requirements/certificate-programs/business-bookkeeping-accounting/>)

C

- Cabinet/Millwork (<https://catalog.washburn.edu/washburn-institute-technology/programs-technical-certificates-graduation-requirements/certificate-programs/cabinet-millwork/>)
- Carpentry (<https://catalog.washburn.edu/washburn-institute-technology/programs-technical-certificates-graduation-requirements/certificate-programs/building-technology-carpentry/>)
- Certified Production Technology (<https://catalog.washburn.edu/washburn-institute-technology/programs-technical-certificates-graduation-requirements/certificate-programs/certified-production-technology/>)
- Climate and Energy Control Technologies (Heating, Ventilation, and Air Conditioning [HVAC]) (<https://catalog.washburn.edu/washburn-institute-technology/programs-technical-certificates-graduation-requirements/certificate-programs/climate-energy-controls-technology-hvac/>)
- Commercial & Heavy Construction (<https://catalog.washburn.edu/washburn-institute-technology/programs-technical-certificates-graduation-requirements/certificate-programs/commercial-heavy-construction/>)
- Cosmetology (<https://catalog.washburn.edu/washburn-institute-technology/programs-technical-certificates-graduation-requirements/certificate-programs/cosmetology/>)
- Culinary Arts (<https://catalog.washburn.edu/washburn-institute-technology/programs-technical-certificates-graduation-requirements/certificate-programs/culinary-arts/>)

D

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E

- Early Childhood Professional (<https://catalog.washburn.edu/washburn-institute-technology/programs-technical-certificates-graduation-requirements/certificate-programs/early-childhood-professional/>)
- Electrical Technology (<https://catalog.washburn.edu/washburn-institute-technology/programs-technical-certificates-graduation-requirements/certificate-programs/electrical-technology/>)
- Emergency Medical Technology (<https://catalog.washburn.edu/washburn-institute-technology/programs-technical-certificates-graduation-requirements/certificate-programs/emergency-medical-technology/>)

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- Foundations of Healthcare (<https://catalog.washburn.edu/washburn-institute-technology/programs-technical-certificates-graduation-requirements/certificate-programs/health-care-technology-certificate/>)

G

- Graphics Technology (<https://catalog.washburn.edu/washburn-institute-technology/programs-technical-certificates-graduation-requirements/certificate-programs/graphics-technology/>)

H

- Heavy Diesel Construction Technology (<https://catalog.washburn.edu/washburn-institute-technology/programs-technical-certificates-graduation-requirements/certificate-programs/heavy-diesel-construction-technology/>)

I

- Information System Technology (<https://catalog.washburn.edu/washburn-institute-technology/programs-technical-certificates-graduation-requirements/certificate-programs/information-system-technology/>)

L

- Legal Office Professional (<https://catalog.washburn.edu/washburn-institute-technology/programs-technical-certificates-graduation-requirements/certificate-programs/legal-office-professional/>)

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- Medical Office Assistant (<https://catalog.washburn.edu/washburn-institute-technology/programs-technical-certificates-graduation-requirements/certificate-programs/medical-office-assistant/>)
- Medical Office Specialist (<https://catalog.washburn.edu/washburn-institute-technology/programs-technical-certificates-graduation-requirements/certificate-programs/medical-office-specialist/>)

O

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Accounting (AC)

AC 224 Financial Accounting (3)

The study of accounting as a means of communicating financial information about the activities of business enterprises. Emphasis is placed on concepts and principles underlying the measurement of income and financial position and how this information may be used to evaluate the progress of a firm. Prerequisites: EN 101 and MA 116 (recommended) or MA 112.

AC 225 Managerial Accounting (3)

The development and use of information in the accounting system as a management decision tool. Prerequisites: AC 224, MA 116 (recommended) or MA 112, BU 248 and BU 250 or concurrent enrollment.

AC 303 The Role of Accounting in Business and Society (3)

Role of accounting in society, including public and private sector organizations. Information needed for external reporting to investors and creditors, internal management planning and control decisions, assessment of risks and controls critical to reliable financial and non-financial data, and regulatory oversight. Overarching themes include decision-making related to recognition and valuation of economic events, effective communication related to accounting and economic information, as well as the importance of diversity, a global mindset, and good professional judgment by accounting professionals. Prerequisites: AC 224 and AC 225 with a grade of C or better, and consent of instructor.

AC 321 Intermediate Financial Accounting I (3)

Financial theory and problems. Emphasis is on valuation and measurement problems of income determination and balance sheet presentation. Prerequisites: AC 225 and BU 250. May not be taken A/Pass/Fail.

AC 322 Intermediate Financial Accounting II (3)

A continuation of financial accounting theory and problems. Prerequisite: AC 321. May not be taken A/Pass/Fail.

AC 325 Cost Accounting (3)

A study of inventory valuation procedures in manufacturing concerns and the processing, analysis and interpretation of data for use by management in the planning and control of operations. Prerequisites: AC 225 and BU 250. May not be taken A/Pass/Fail.

AC 330 Accounting Information Systems (3)

The study of the development and design of an accounting system. Emphasis on procedures necessary to meet generally accepted auditing standards and methods and techniques to evaluate internal control of an accounting system. Prerequisites: AC 225 and BU 250. May not be taken A/Pass/Fail.

AC 403 Special Topics/Accounting (3)

Selected topics announced in advance. May be taken more than one semester. Prerequisite: Admission to the School of Business. Other prerequisites will be specified for each topic. May not be taken A/Pass/Fail.

AC 404 Independent Study - Accounting (3)

Individual study of a topic in accounting. Activity must be supervised by a full-time School of Business faculty member with professorial rank. Prerequisites: Admission to the School of Business and consent of directing faculty member prior to enrollment. May not be taken A/Pass/Fail.

AC 421 Advanced Financial Accounting (3)

Accounting methods and procedures related to partnerships, branches, business combinations, and foreign exchange. Prerequisites: Admission to the School of Business and AC 322. May not be taken A/Pass/Fail.

AC 423 Federal Income Taxation - Individual (3)

Income tax laws, regulations, and procedures pertinent to individual taxpayer reporting. Prerequisites: Admission to the School of Business and AC 224, AC 225, and BU 250 completed with grades of "C" or better. May not be taken A/Pass/Fail.

AC 424 Federal Income Taxation - Business Entities (3)

Income tax laws, regulations, and procedures pertinent to partnership, corporation, and fiduciary reporting. Prerequisites: Admission to the School of Business and AC 225 and BU 250. May not be taken A/Pass/Fail.

AC 425 Auditing (3)

The course covers essential processes of auditing including specific procedures and techniques usable in the public and private sectors. Technical standards of these sectors receive attention with an emphasis on ethics related to the profession of auditing. The course includes operational and compliance auditing in addition to auditing of financial statements. Other content areas are the auditor's role in society, the application of internal control concepts, the understanding of accounting information systems, the methods of statistical sampling and the use of auditing software. Prerequisites: Admission to the School of Business and AC 321, AC 322, and AC 330 completed with grades of "C" or better. (AC 322 may be taken concurrently.) May not be taken A/Pass/Fail.

AC 427 Governmental and Institutional Accounting (3)

Methods and procedure used in fund accounting with emphasis on governmental units and not-for-profit organizations. Prerequisites: Admission to the School of Business and AC 225 and BU 250. May not be taken A/Pass/Fail.

AC 428 Fraud Examination (3)

Theory, techniques, methods and procedures for the detection, investigation, and deterrence of fraud. Prerequisites: Admission to the School of Business and AC 224, AC 225, and BU 250 or equivalent. May not be taken A/Pass/Fail.

AC 431 Contemporary Issues in Accounting (3)

Current issues in accounting with emphasis on the releases of the American Institute of Certified Public Accountants and the Financial Accounting Standards Board. Includes accounting theory to solving accounting problems. Prerequisites: Admission to the School of Business and AC 322. May not be taken A/Pass/Fail.

AC 499 Internship In Accounting (3)

Professional work experience with a business firm or governmental agency in some phase of public, private, or governmental accounting. The work situation must create a new learning experience for the student. Credit hours in this course may be used only as elective business hours and will not count toward the minimum 63 hours of accounting, business, and economics hours required of the BBA candidate nor will they count toward the minimum twenty-four hours of accounting required of accounting majors. Internship credit hours will be counted in the maximum School of Business hours an accounting major may earn within a 120-hour program. The student's grade will be awarded on a pass-fail basis, as determined by the supervising faculty member. Prerequisites: Admission to the School of Business, consent of the accounting faculty, appropriate academic background, at least 75 semester credit hours, at least a 2.5 overall grade average, and meet the general qualifications specified by the sponsoring business firm or governmental agency.

AC 524 Accounting Concepts (3)

Accelerated and in-depth introduction to conceptual accounting foundations. Presents accounting as a dynamic information system for communicating and measuring use of financial data for planning and control purposes. Primary focus is to provide background for upper-level graduate courses. Prerequisite: College Algebra

AC 616 Commercial Transactions (3)

Nature and sources of commercial law, legal process, common, and statutory law as they pertain to sales, negotiable instruments, secured transactions, suretyship, insurance and bankruptcy. (Not available to those who have taken BU 416.) Prerequisite: Admission to the Master of Accountancy program and BU 315.

AC 621 Advanced Financial Accounting (3)

Concepts and procedures related to business combinations - domestic and foreign, foreign currency transactions, partnerships, and other related financial reporting topics. Prerequisite: Admission to the Master of Accountancy program and AC 321 and AC 322.

AC 624 Tax for Business Entities (3)

Income tax laws, regulations, and procedures pertinent to partnership, corporation, and fiduciary reporting. Prerequisite: Admission to the Master of Accountancy program and AC 224, AC 225, and BU 250.

AC 625 Advanced Auditing (3)

Concepts of, and approaches to, auditing & assurance services in a computerized environment, including skill development to apply the underlying concepts and approaches to these professional services. Development of professional judgment through analysis and discussion of real company cases covering complex topics in assurance services. Prerequisite: Admission to the Master of Accountancy program and AC 425.

AC 626 Contemporary Issues Accounting (3)

Current and emerging issues in accounting and accounting standards from theoretical and accounting practice perspectives. Topics vary by semester. May be repeated for credit. Prerequisite: Admission to the Master of Accountancy and AC 321 and AC 322.

AC 627 Advanced Managerial Accounting (3)

Assignment and control of organizational costs including decision making and reward structures. Application of concepts in academic readings to organizational case scenarios. Prerequisite: Admission to the Master of Accountancy program and AC 325.

AC 628 Government/Not for Profit Accounting (3)

Methods and procedures used in fund accounting with emphasis on state and local governmental units and not-for-profit organizations. Prerequisite: Admission to the Master of Accountancy program and AC 224, AC 225, and BU 250.

AC 629 Accounting Research Seminar (3)

Based on review of research literature in the diverse areas of accounting, the development and design of an accounting research project in the student's area of choice employing relevant technology and statistical analysis. Prerequisite: Admission to the Master of Accountancy program and AC 621, AC 624, and AC 627.

AC 630 Advanced Accounting Information Systems (3)

Integration of accounting systems in support of organizations in global business environments including end-to-end cross-functional business processes. Application and extension to the professional environment of technology knowledge and skills in Microsoft computer operating systems and applications. Prerequisite: Admission to the Master of Accountancy program and BU 250 and AC 330.

AC 639 Accounting Theory and Ethics (3)

Major and alternative ethical models and the historical development of financial accounting theory. Analysis of cases that illustrate ethical failures and dilemmas in accounting practice. Current and proposed accounting standards. Prerequisite: Admission to the Master of Accountancy program and AC 621.

AC 654 Management Accounting Analysis (3)

In-depth study of the uses of management accounting tools and their impact on the contemporary business organization. Includes evolution of cost and decision models and the management accounting function, as well as the application of fundamental methods. Emphasis on case studies and research and the development of written and oral communication skills in a management accounting context. Prerequisite: BU 250 and AC 524 or consent of instructor.

AC 699 Internship in Accounting (3)

Professional work experience in accounting with a business firm, governmental agency, or not-for-profit organization. The work experience must create a new learning experience for the student. Credit hours may only be used as elective hours and will not count toward the minimum 21 hours of accounting and economic hours required of the MAcc candidate. Grades for this class are awarded on a pass-fail basis. Prerequisite: Admission to the Master of Accountancy program, Consent, and AC 425.

African American and African Diaspora Studies (AD)

AD 199 Special Topics in African American and African Diaspora Studies (3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: Consent of Instructor

AD 200 Introduction to Critical Race & Ethnic Studies (3)

This course provides students with foundational knowledge of Critical Race Theory as a lens to understand race and ethnicity as socially, culturally, and historically constructed realities that sustain unequal distribution of political and socioeconomic power and inform constructions of identity and community. Students will gain skills to work toward an anti-racist and socially just society. Prerequisite: None. (General Ed Social Science. Global Citizenship Ethics Div.)

AD 299 Special Topics in African American and African Diaspora Studies (3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: Consent of Instructor

AD 395 Directed Study in African American and African Diaspora Studies (1-3)

Directed readings and individualized research program on a subject relevant to African American and African Diaspora Studies and with the guidance of a professor. May be taken for more than one semester. Prerequisite: Consent of Instructor and approval of the AAADS Director.

AD 397 Internship in AAADS (1-3)

A program for junior/senior-level undergraduates offered in cooperation with a local or state agency with the supervision of faculty and/or the AAADS Director. Prerequisite: Approval of the AAADS Director.

AD 399 Special Topics in African American and African Diaspora Studies (3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: Consent of Instructor

Allied Health (AL)

AL 101 Foundations of Healthcare (3)

An overview of the role of various health care professions, ethical and legal responsibilities, patient communication methods, cultural competence, patient assessment techniques, medical terminology, electronic health records and preventative health care. Through role playing and case studies, students learn how the various members of the health care team interact and communicate with one another in order to provide the most efficient and effective delivery of patient care. Additional technical competencies included in this course are: assessment of vital signs, safe body mechanics, patient transfers and safety, basic first aid, standard and transmission-based infection precautions.

AL 120 Radiographic Procedures & Patient Care I (3)

Focuses on the principles of producing and evaluating radiographs of the skeletal and urinary systems. Discusses patient care procedures such as vital signs, infection control, medical emergencies and aseptic techniques. Prerequisite: Admission to the Radiologic Technology program and concurrent with AL 120A.

AL 120A Procedures Lab I (0)

Required laboratory demonstrations will include chest, KUB, upper extremity, lower extremity, spine, and contrast studies. A one hour weekly session is held on campus. Concurrent with AL 120.

AL 121 Radiographic Procedures & Patient Care II (3)

Explores those procedures employed in the more complicated investigation of the human body. Continues to examine present techniques necessary for the assessment and care of the ill and injured patient. Prerequisites: AL 120, AL 130, AL 134, and concurrent with AL 121A.

AL 121A Procedures Lab II (0)

Required laboratory demonstrations include spine, contrast studies, cranium, bony thorax, and miscellaneous positions. A one hour session is held each week. Concurrent with AL 121.

AL 130 Radiographic Exposure I (3)

Principles of radiographic image formation related to digital imaging. Physics of x-ray production and influences on image creation. The course provides an understanding and analysis of the radiographic image. Prerequisite: Admission to the Radiologic Technology program and concurrent with AL 130A.

AL 130A Exposure Lab I (0)

Demonstrations will be directed towards the primary factors of radiograph (image) production. An energized x-ray unit will be available for the one hour weekly session. Concurrent with AL 130.

AL 131 Radiographic Exposure II (3)

A continuation of AL 130 emphasizing imaging principles. Problem solving through mathematical application. Techniques of quality control. An additional fee is associated with this course. Prerequisites: AL 120, AL 130, AL 134, and concurrent with AL 131A or consent.

AL 131A Exposure Lab II (0)

Demonstrations will involve the imaging systems, computation of radiation dosages, and quality control techniques. The one hour weekly session will utilize an energized x-ray unit. Concurrent with AL 131.

AL 134 Radiology Clinical I (3)

This course requires a specific number of hours of limited radiographic assistance in a healthcare setting. Students will achieve competency in simple procedures under direct supervision. Prerequisite: Admission to the Radiologic Technology program.

AL 135 Radiology Clinical II (3)

This course requires a specific number of hours of limited radiographic assistance in a healthcare setting. This course builds on competencies achieved in AL 134. Students will achieve competency in more complex procedures with direct and/or indirect supervision. Prerequisite: AL 134 or consent.

AL 141 Medical Terminology (3)

This course covers word elements that form the base on which the medical language is constructed, including commonly used abbreviations. Emphasis on competency in spelling, pronunciation, correct usage and meaning of terminology related to all body systems, medical science and medical specialties.

AL 150 Principles of Health Information Technology (3)

This course covers the organization, analysis, and evaluation of health records, methods of storage, retrieval and preservation, an introduction to computer and information systems in health care, and an overview of health information department management. Prerequisites: AL 101, Admission to HIT Program.

AL 157 Specialized Records & Registries for Health Information Technology (2)

This course explores health information requirements in non-hospital settings including long-term and ambulatory care, & functions and procedures for specialized health information registries. Prerequisite: AL 150, AL 366 or concurrent.

AL 161 Foundations of Occupational Therapy (2)

This course is an introduction to the history and philosophical base of occupational therapy. Areas of instruction include: models of practice; frames of reference; the role of the Occupational Therapist/Occupational Therapy Assistant; Code of Ethics; Core Values; Standards of Practice and the Delivery of Occupational Therapy Services. Prerequisite: Formal Admission to the Occupational Therapy Assistant Program.

AL 162 Occupational Therapy Interventions I (3)

This lecture and lab course will discuss the dynamics of the occupation to include the activity, performance skills, and performance patterns from conception to age 18. The student will exhibit the ability to analyze tasks and implement an intervention plan for the occupational therapy client. Prerequisite: AL 161.

AL 163 Foundations of Occupational Therapy II (3)

This lecture/lab course is a continuation of AL 161 and will allow the student to develop the ability to select and implement occupational therapy interventions related to the activities of daily living. Prerequisite: AL 161 and concurrent with AL 164.

AL 164 Level I Occupational Therapy Fieldwork (1)

This course requires a specific number of hours of limited occupational therapy assistant exposure in the healthcare setting. Prerequisite: AL 161 and Concurrent with AL 163.

AL 165 Occupational Therapy Assistants - Psychosocial Disorders (1)

This course will provide the student with the knowledge and understanding of the concepts of psychiatric disorders and human behavior as it relates to the role of occupational therapy services. This course will focus on psychosocial mental health disorders with dementia, physical injury, trauma, or neurological dysfunction. Prerequisite: AL 164.

AL 166 Occupational Therapy Interventions II (3)

This lecture lab course is a continuation of AL 162 and will discuss the dynamics of the occupation to include the activity, performance skills, and performance from early adulthood to later maturity. Prerequisite: AL 162.

AL 167 Foundations of Occupational Therapy III (3)

This course is a continuation of AL 163 and will allow the student to develop the ability to administer selected assessments, screening, evaluation tools, and skilled observations and to develop skills that relate to analysis of movement, orthotic devices, superficial thermal and mechanical modalities. Prerequisite: AL 163.

AL 170 Physical Therapy Procedures (3)

This class features the development of early Physical Therapy skills and the understanding of basic procedures. Specific emphasis is placed on range of motion, measurement of range of motion, therapeutic exercise basics, aseptic and isolation techniques, proper bed positioning, massage, transfers, wheelchair management, architectural barriers, locomotion training, documentation, vital signs and safety. All skills are reinforced and practiced in supervised scheduled laboratories and open lab sessions. Prerequisite: Admission to PTA Program.

AL 171 Musculoskeletal Assessment in Physical Therapy (3)

This course follows AL 170 PT Procedures in the curriculum sequence and is designed to provide the Physical Therapist Assistant student with a foundation for musculoskeletal assessment and treatment. Emphasis is on orthopedic physical therapy assessment, including manual muscle testing, cranial nerve testing, dermatomal and myotomal assessment, special tests, joint mobilization theory, therapeutic exercise, motor control theory, clinical decision making according to the Physical Therapist Plan of Care, identification of red flags, specific orthopedic protocols and implementation of specific physical therapy programs for various rehab clients. Prerequisite: AL 170 and concurrent enrollment in AL 261

AL 185 Principles of Respiratory Therapy I (2)

Specific modes of respiratory care are examined to understand principles of application to patients, indications, hazards, contraindications, and evaluation of therapy. Emphasis is placed on detailed knowledge of equipment used in these modes. Modes of care include medical gas therapy, humidity and aerosol therapy, lung expansion techniques and basic diagnostic studies. An additional fee is associated with this course. Prerequisite: Consent and concurrent with AL 185L.

AL 185L Principles of Respiratory Therapy Lab (0)

Explores the procedures for specific respiratory therapies. Students will practice skills and complete required competencies. Concurrent with AL 185.

AL 186 Cardiopulmonary Assessment (2)

This course is for Allied Health students and is designed to provide the student with an understanding of the cardiopulmonary systems. Areas of study will include a review and assessment of the anatomy and physiology of the pulmonary, cardiac, and renal systems. Prerequisites: OTA-AL 167; RT-AL 185; PTA-concurrent with AL 265 and AL 272 or consent.

AL 187 Respiratory Therapy Clinical I (3)

An introduction to basic respiratory therapy procedures. Orientation to clinical practice, charting of records, infection control, emergency procedures, therapeutic procedures and diagnostic procedures are emphasized. The student will be introduced to routine respiratory care and equipment. Prerequisite: AL 185.

AL 220 Radiographic Procedures III (2)

Presents cross-sectional anatomy as a background for radiographic related imaging modalities. Develops an awareness of related areas including venipuncture, computed tomography, sonography, nuclear medicine, radiation therapy, magnetic resonance, mammography, and interventional procedures. The investigation of alternative methods of radiography of the atypical patient is included. Prerequisite: AL 121 or consent.

AL 230 Radiologic Equipment Operation (2)

Focuses on radiography physics, electromagnetic radiation, and x-ray production. Emphasizes electrical concepts including electrostatics, circuitry, electromagnetism, rectification and the application of these principles to radiography. A working knowledge of basic algebraic equations is required. Prerequisite: AL 131 or consent.

AL 231 Radiation Protection & Biological Effects (2)

Provides the knowledge and serves to develop the attitude necessary to intelligently protect the patient, themselves, and others from the potentially harmful effects of radiation. Includes an in-depth discussion of biological effects, cell and organism sensitivity, and somatic and genetic effects of ionizing radiation. Prerequisite: AL 121 or AL 131 or consent.

AL 236 Radiology Clinical III (3)

This course requires a specific number of hours of direct radiographic assistance in a healthcare setting. Students will demonstrate competence in a variety of procedures with indirect supervision. Prerequisite: AL 121, AL 131, AL 135, or consent.

AL 237 Radiology Clinical IV (4)

This course requires a specific number of hours of direct radiographic assistance in a healthcare setting. Students demonstrate competence in special procedures utilizing positioning techniques covered in AL 220 with direct supervision. Rotations through specialized areas of radiology will begin. Prerequisite: AL 236 and concurrent with AL 220 or consent.

AL 238 Radiology Clinical V (4)

Additional experience and expertise in routine and non-routine examinations is gained. Rotations through the specialized areas of radiology will continue. Students are under indirect supervision. Prerequisites: AL 237 and AL 220 or consent.

AL 240 Professional Practice I for Health Information Technology (2)

This course includes simulated projects completed independently, and supervised clinical experience in the technical aspects of health records in approved health care facilities and agencies. Prerequisites: Admission to Health Information Technology Program, AL 150 or concurrent enrollment.

AL 241 Professional Practice II for Health Information Technology (3)

Continuation of AL 240. Prerequisite: AL 240.

AL 243 Coding Professional Practice for Health Information Technology (2)

Simulated projects performed independently, and supervised clinical including inpatient and outpatient coding in approved health care facilities and agencies. Prerequisites: AL 245, AL 246, or concurrent.

AL 244 Healthcare Statistics - Health Information Technology (2)

This course covers the collection, computation, analysis, presentation and use of healthcare statistical data. Prerequisite: AL 150.

AL 245 Health Information Coding I (3)

This course covers coding principles for diseases and operations using the International Classification of Diseases. Focus is on the identification, coding & sequencing of inpatient medical diagnosis and procedures. Prerequisites: BI 230, BI 250, AL 320 or concurrent.

AL 246 Health Information Coding II (3)

This course covers coding principles for outpatient services using the International Classification of Diseases and Current Procedure Terminology manuals. Focus is on the identification, coding & sequencing of outpatient diagnosis & procedures. Prerequisite: AL 245.

AL 247 Healthcare Reimbursement Methods (3)

This course covers healthcare reimbursement methodologies and advanced coding skills for inpatient and outpatient settings. Prerequisite: AL 250, AL 246 or concurrent.

AL 250 Seminar in Health Information Technology (1)

This course includes an analysis of major trends and issues affecting health information, review of the fundamental principles of health information technology & successful completion of a simulated certification examination. Concurrent with AL 241.

AL 252 Psychosocial Occupational Therapy (3)

This lecture lab course discusses the role of occupational therapy concerning therapeutic use of self, including one's personality, insights, perceptions and judgments as part of the therapeutic process in individual and group interactions. Prerequisite: AL 165.

AL 253 Level I Occupational Therapy Fieldwork II (1)

This course requires a specific number of hours in the health care setting to allow the student to employ logical thinking, critical analysis, problem solving and creativity as it relates to the occupational therapy clinical setting. Prerequisites: AL 164, AL 167.

AL 254 Current Topics Occupational Therapy (2)

This course will allow the student to obtain the knowledge and understanding of the systems and structures that create federal and state legislation and regulation for occupational therapy. Topics include reimbursement, national, international and state regulations for licensure, certification and/or registration for occupational therapy. Prerequisite: AL 167.

AL 255 Level II Occupational Therapy Fieldwork (8)

This fieldwork placement consists of two, full time, eight week rotations and provides the student with the opportunity to develop into competent, entry-level occupational therapy assistants. The student will be exposed to a variety of clients across the life span and a variety of settings. Prerequisite: Satisfactory completion of all previous coursework.

AL 257 Applied Neurophysiology - Occupational Therapy (3)

This course is designed to provide the Occupational Therapy Assistant with a foundation in applied neurophysiology concepts. This includes, but is not limited to, specific assessment and treatment techniques for patients in special populations, such as spinal cord injury, pediatrics, amputees, traumatic head injury, cerebrovascular accidents, as well as other neurological or cardiovascular disorders. Prerequisite: AL 167 and BI 230.

AL 260 Independent Study (1-3)

Allied Health majors may pursue an independent research project if approved by the Program Director in consultation with the Department Chair. Independent Study may not be used in place of any courses required in the major. Independent Study courses must meet equivalencies to Federal definition of a credit hour. Prerequisites: Consent

AL 261 Therapeutic Modalities in Physical Therapy (3)

This course follows AL 170 Physical Therapy Procedures in the curriculum sequence and is designed to provide the student with a foundation for the use of therapeutic modalities. This course includes instruction on the various modalities of heat, cold, electrical stimulation, hydrotherapy, diathermy, ultrasound, traction, ultraviolet/infrared light and other physical agent modalities and treatments. Prerequisites: AL 170 and concurrent enrollment in AL 171.

AL 264 Physical Therapy Clinical I and Lab (3)

This course involves observation and supervised hands-on treatment of various types of patients in different clinical settings with the practicum of skills learned in AL 170 Procedures and AL 171 Musculoskeletal Assessment in Physical Therapy, and AL 261 Therapeutic Modalities in Physical Therapy. This course will include an on-going communication between the clinical instructor (CI), the student and the academic coordinator. The student is given the opportunity to work with a variety of patients and to begin developing competence as a medical team member. The student also attends 6 clinical labs prior to the start of the clinical rotation to further develop his/her skills with patients and department procedures. Prerequisites: AL 261 and AL 171.

AL 265 Applied Neurophysiology - Physical Therapist Assistant (3)

This lecture/lab course is designed to provide the Physical Therapist Assistant with a foundation in applied neurophysiology concepts and common neurologic disease processes, physical therapy assessment and intervention techniques. This includes, but is not limited to, specific assessment and treatment techniques for patients in special populations, such as spinal cord injury, pediatrics, traumatic head injury, cerebrovascular accidents, as well as other neurological or cardiovascular disorders. Prerequisite: AL 264, AL 268, AL 271 and concurrent enrollment in AL 272 and AL 186.

AL 268 Integumentary Assessment in Physical Therapy (2)

Therapy management of various wounds and integumentary disorders. Specific emphasis will be placed on proper identification/staging of wounds, assessment and measurement, treatment protocols including selection of proper debridement techniques and dressings, along with other topics regarding integumentary assessment and wound care. Prerequisite: AL 261 and AL 171.

AL 271 Health Policy & Systems in Physical Therapy (2)

This course emphasizes professional aspects of the Physical Therapist Assistant. Included in that realm are topics such as professional behavior with colleagues and patients, health care history, policy, and systems, reimbursement guidelines, legislative issues, continuing education and plan for professional advancement, code of ethics, cultural sensitivity and competence, current developments in Physical Therapy, professional relationships, research, evidence based practice, employment, etc. This course is designed to broaden the student's understanding of professional responsibility and motivate them towards personal improvement, commitment and continuing competence in the Physical Therapy profession. Prerequisite: AL 261, AL 171, and concurrent enrollment in AL 264 and AL 268.

AL 272 Current Rehabilitation Techniques in Physical Therapy (2)

This course emphasizes the characteristics, clinical problems, and physical therapy treatment of various rehabilitation patients, including the physical, psychological, sexual and vocational problems encountered. Specialized areas of Physical Therapy such as Aquatics, Geriatrics, Oncology, Women's Health Issues, Prosthetics/Orthotics, Sports Physical Therapy and Pediatrics are included in this course. Prerequisite: Satisfactory completion of all previous coursework. AL 264, AL 268, AL 271 and concurrent enrollment in AL 279.

AL 273 Physical Therapy Issues (1)

In consultation with a faculty member, the student is assigned for intensive study a specific area of concern related to physical therapy. This may include intensive reading and the preparation of patient and/or practitioner educational materials related to the subject. This will give the student an opportunity to develop an area or topic of expertise by exploring various avenues of information and compiling those into one document. During this course the student will also be reviewing for the Program Comprehensive Final to be given during the second or third week of the spring semester. Prerequisites: AL 265, AL 272. AL 186, AL 265, AL 272 and concurrent enrollment in AL 279.

AL 279 Physical Therapy Clinical II & III (6)

This course is clinical in nature and consists of two six-week full-time rotation following the completion of all didactic course work. The student will be involved in practicing all Physical Therapist Assistant skills in an assigned healthcare facility. The course will entail either on-site or phone/skype communication between the clinical instructor, the student and the academic coordinator (at least once during each rotation). The student is given the opportunity to practice advanced applications with direct supervision on a variety of patients and to develop competence as a full-time member of the medical team. Prerequisites: AL 265, AL 272, AL 186, and concurrent enrollment in AL 273.

AL 289 Respiratory Therapy Clinical II (5)

Students are assigned to various clinical settings designed to allow the student to complete procedural evaluations in basic respiratory care. The student will also be introduced to critical care medicine. Prerequisite: AL 187.

AL 290 Special Topics/Allied Health (1-3)

Selected topics related to one of the Allied Health programs, which vary from semester to semester. Announced in advance. Prerequisite: Specified on each topic.

AL 291 Respiratory Therapy Principles and Procedures I (3)

Lectures and laboratory topics on cardiopulmonary resuscitation, airway care and management, emergency care, mechanical ventilation and care of the critically ill patient. Prerequisite: AL 289.

AL 292 Respiratory Therapy Principles and Procedures II (5)

Lectures, simulation and group discussion of diagnostic procedures used by the pulmonary physician in evaluating patients with respiratory disease. Special emphasis will be placed on etiology, pathophysiology, clinical manifestations, patient education, and treatment of obstructed and restricted pulmonary diseases. Prerequisite: Consent

AL 293 Respiratory Therapy Clinical III (5)

An in-depth exploration of critical care medicine. The student will execute procedures relating to care of the patient being mechanically ventilated. The student will also be given clinical experience in EKG's and pulmonary function studies. The student will also be introduced to neonatal critical care medicine. An additional fee is associated with this course. Prerequisite: AL 289.

AL 294 Respiratory Therapy Clinical Topics II (3)

An introduction to medical microbiology. Special emphasis on pathogens related to the cardiopulmonary systems. Students will also be exposed to new, current and advanced clinical respiratory therapy topics. Prerequisite: AL 292.

AL 295 Respiratory Therapy Clinical IV (5)

Clinical rotations in pulmonary rehabilitation/home care, advanced ventilation techniques, hemodynamic monitoring, and specialty rotations that the student is concerned with related to respiratory therapy. Students will also receive clinical experience in pediatrics and neonatology. Prerequisite: AL 293.

AL 296 Respiratory Therapy Clinical Topics III (3)

Instruction in fields of obstetrics, neonatology and pediatrics as related to respiratory care. Includes sections on medical ethics. Prerequisite: AL 382.

AL 300 Introduction to Diagnostic Medical Sonography (3)

An introduction to the Diagnostic Medical Sonography profession. Topics include discussion of sonographic terminology, basic theories of equipment operation, body imaging, seminars in patient care, professionalism, and information concerning clinical education. Prerequisite: Admission to Diagnostic Medical Sonography Program or consent.

AL 301 Clinical Radiation Therapy I (4)

In this course the student therapist will participate in the daily activities of the radiation oncology department while under direct supervision at affiliated clinical education sites. The student therapist will work to develop skills to achieve competency and learn to interact professionally and ethically with staff and patients.

AL 302 Radiation Therapy Principles I (3)

This course is designed to provide a basic overview of radiation therapy treatment planning and delivery concepts as well as foundational knowledge related to patient assessment, pharmacology, ethics, and law.

AL 303 Radiation Therapy Physics I (3)

This course is designed to establish knowledge of basic physics concepts relevant to fundamental physical units, principles, atomic structure, types of radiation, x-ray production, interactions with matter, measurement devices, and x-ray generating equipment.

AL 304 Therapeutic Radiobiology (3)

This course is designed to explore the biological, chemical, and physical effects of radiation on cells, tissues, and the body as a whole.

AL 305 Radiation Therapy Physics II (3)

This course is designed to examine factors that influence and govern the optimal planning of external beam radiation therapy and brachytherapy. Topics include isodose distributions, compensating factors, methods of dosimetric calculations, and clinical applications of treatment beams.

AL 307 Oncology, Simulation, and Treatment Procedures I (3)

This course is designed to examine and evaluate the management of neoplastic disease. The epidemiology, etiology, diagnosis, treatment approaches, sequelae, and prognosis are discussed.

AL 308 Allied Health Portfolio (3)

This is a required course for Bachelor of Health Science majors who are requesting credit for a radiographer, sonographer or radiation therapist accredited program which was not completed at a University/ College. Students will develop a portfolio demonstrating completion of appropriate education and registry examinations in addition to retrospective and prospective self-evaluation

AL 309 Foundations of Radiation Therapy (2)

This course is designed to provide an introduction to radiation oncology and the role of the professional radiation therapist. Radiation therapy medical terminology, patient assessment, radiation protection, and safety are explored. Students are oriented to the policies and procedures of the educational program.

AL 310 Radiation Therapy Procedures II (3)

This course is designed to provide instruction regarding radiation therapy quality management.

AL 311 Imaging in Radiation Therapy (3)

This course is designed to introduce crosssectional anatomy as it relates to the practice of radiation therapy with a focus on location of normal gross anatomy and relationship to other structures. Anatomy will be identified in axial (transverse), sagittal, and coronal planes. Radiation oncology imaging and simulation equipment/components, and related devices

AL 315 Allied Health Pharmacology (3)

This course is for allied health students and is designed to familiarize the student with general classification of drugs, the mechanism of action, indications, contraindications, and major adverse effects. Principles of drug administration and pharmacokinetic are also presented.

AL 320 Human Disease (3)

A study of diseases, their causes and complications, and the modern practices of diagnosis and treatment. Prerequisite: BI 230 or BI 250 or BI 255 or BI 275.

AL 321 Advanced Radiographic Imaging (2)

A continuation of disease concepts with a direct application to patient assessment, patient care, selection of radiation exposure factors and radiologic procedures. Prerequisite: Consent.

AL 330 Sonography Principles and Instrumentation I (3)

This course provides information concerning the basic physical principles of sound waves, their applications to the human body, the operation and physical characteristics of the transducer, the method by which the sound waves are converted into an image. In-depth instruction on physics principles and instrumentation will be presented. Prerequisite: Admission to Diagnostic Medical Sonography program or consent.

AL 331 Sonography Principles and Instrumentation II (3)

This course is a continuation through the physics of sonography. It will continue the exploration of the basic physical principles of sound waves, their applications to the human body, the operation and physical characteristics of the transducer, the method by which the sound waves are converted into an image. An in-depth instruction on physics principles and instrumentation will be presented. Prerequisite: Admission to Diagnostic Medical Sonography program or consent.

AL 332 Sonography Principles and Instrumentation III and Registry Review (2)

This course will review all of the curriculum related to the physics of sonography and sonography instrumentation to prepare the student for the national credentialing examinations. Prerequisite: Admission to Diagnostic Medical Sonography program or consent.

AL 340 Clinical Radiation Therapy II (4)

This course is a continuation of AL301. The student therapist will participate in the daily activities of the radiation oncology department while under direct supervision at affiliated clinical education sites. The student therapist will work to develop skills to achieve competency and learn to interact professionally and ethically with staff and patients.

AL 341 Sectional Anatomy & Imaging Applications (4)

Detailed study of gross anatomical structures will be conducted systematically for location, relationship to other structures and function. Gross anatomical structures are located and identified in axial (transverse), sagittal, coronal and orthogonal (oblique) planes. Illustrations and anatomy images will be compared with magnetic resonance (MR) and computed tomography (CT) images in the same imaging planes and at the same level when applicable. The characteristic appearance of each anatomical structure as it appears on CT and MR, when applicable, will be stressed. Prerequisite: Consent.

AL 347 Magnetic Resonance (MR) Physics I (3)

Content is intended to impart an understanding of theories of magnetic resonance properties. Additional concepts such as pulse sequencing, coils, gradient usage and signal production will be covered. Prerequisite: Consent.

AL 348 Magnetic Resonance (MR) Imaging I (3)

Content is designed to provide a review of anatomy involving selected body regions with an understanding of MR tissue characteristics. Routine imaging of the abdomen, pelvis, thorax, musculoskeletal system and central nervous system will be discussed. Common pathology as demonstrated through MR imaging will be presented. Prerequisite: Consent.

AL 349 Magnetic Resonance Clinical Experience I (1-3)

Assignment to a MR facility for application of theory and development of competency in routine imaging. Establish eligibility for certification through the American Registry of Radiologic Technologists. Prerequisite: Consent.

AL 350 Magnetic Resonance (MR) Physics II (3)

A continuation of Physics I concepts including pulse sequencing application, coil selection relating to scans, calculation of scan times as well as scan parameters and image factors. Prerequisite: AL 347 or consent.

AL 351 Magnetic Resonance (MR) Imaging II (3)

A continuation of imaging methods with a focus on non-routine or specialized protocols of the abdomen, pelvis, thorax, musculoskeletal system, central nervous system and vascular system. Prerequisite: AL 348 or consent.

AL 352 Magnetic Resonance Clinical Experience II (1-3)

Assignment to a MR facility for application of theory and development of competency in specialized imaging. Establish eligibility for certification through the American Registry of Radiologic Technologists. Prerequisite: AL 349 or consent.

AL 354 International Health Care Experience (3)

This course will offer students the opportunity to experience the culture of countries other than the United States while engaging in meaningful healthcare services or studies. In addition to completing their studies or service project, students will learn about the history, political systems, healthcare systems and culture of the country they visit. Prerequisite: Permission of the course instructor.

AL 355 Basic Concepts Health Services Administration (3)

This course is designed primarily for students who are new to the Bachelor of Health Science program and do not possess an allied health or other healthcare certification. This course will consist of introductory information and examines the health profession, health care administration and the organization of health care. Prerequisite: None.

AL 360 Independent Study/Allied Health (1-3)

Allied Health majors may pursue an independent research project if approved by the Program Director in consultation with the Department Chair. Independent Study may not be used in place of any courses required in the major. Independent Study courses must meet equivalencies to Federal definition of a credit hour. Prerequisites: Consent

AL 361 General Sonography Clinical I (6)

Students are assigned to various clinical settings to allow the student to begin developing the technical skills necessary to become an entry-level sonographer. Students receive supervision, training, and feedback from a registered sonographer. Prerequisite: Admission to Diagnostic Medical Sonography program or consent.

AL 362 General Sonography Clinical II (6)

Students are assigned to various clinical settings to allow the continuation of developing the technical skills necessary to become an entry-level sonographer. Students receive supervision, training, and feedback from a registered sonographer. Prerequisite: Admission to the Diagnostic Medical Sonography program or consent.

AL 363 General Sonography Clinical III (3)

Students are assigned to various clinical settings to allow the continuation of developing the technical skills necessary to become an entry-level sonographer. Students receive supervision, training, and feedback from a registered sonographer. Prerequisite: Admission to the Diagnostic Medical Sonography program or consent.

AL 366 Legal & Regulatory Issues for the Health Care Professional (3)

This course is an overview of the legal and regulatory issues that impact the delivery of health care. Emphasis will be placed on the management of a health care organization from a leadership perspective. Prerequisite: Admission to the Bachelor of Health Science major/minor or HIT program.

AL 367 Foundations of Quality Improvement in Health Care (3)

The course introduces the student to key quality and process improvement issues impacting the administrators of today's health care organizations and explores how those issues affect the delivery of care. Data-driven process and quality improvement is a central theme in the exploration of a variety of health care topics. This course provides basic knowledge of process improvement to be used in later courses. Prerequisite: Admission to the Bachelor of Health Science major/minor or HIT program.

AL 370 Oncology, Simulation and Treatment Procedures II (3)

This course is designed to examine and evaluate the management of neoplastic disease. The epidemiology, etiology, diagnosis, treatment approaches, sequelae, and prognosis are discussed.

AL 371 Abdomen Sonography Procedures I (3)

This Course will introduce introductory topics concerning abdominal sonography including but not limited to anatomy, pathophysiology, anatomical disease processes, patient care applications and sonographic principles and practices. Prerequisite: Admission to the Diagnostic Medical Sonography program or consent.

AL 372 Abdomen Sonography Proced II (3)

This Course will continue to explore general abdominal sonography and general small parts sonography topics. Topics will include but not limited to anatomy, pathophysiology, anatomical disease processes, patient care applications and sonographic principles and practices. Additionally special topics, pediatrics and interventional sonography practices will be explored. Prerequisite: Admission to the Diagnostic Medical Sonography program or consent.

AL 375 Health Care Policy (3)

This course focuses on government and private policy and how it impacts the delivery of health care. Students will learn how a health care leader can be an advocate for change. Prerequisite: Admission to the Bachelor of Health Science major/minor or HIT program.

AL 379 General Sonography Procedures III and Registry Review (2)

This course will combine all information concerning general sonography procedures and OBGYN sonography procedures courses. This course will serve as a review course with mock board review exams tailored to the requirements of the National Registry exams of the Abdominal and OBGYN specialty board exams. Prerequisite: Admission to the Diagnostic Medical Sonography program or consent.

AL 380 Clinical Radiation Therapy III (3)

This course is a continuation of AL340. The student therapist will participate in the daily activities of the radiation oncology department while under direct supervision at affiliated clinical education sites. The student therapist will work to develop skills to achieve competency and learn to interact professionally and ethically with staff and patients.

AL 381 Radiation Therapy Seminar (3)

This course offers a is designed to provide a systematic review of the ARRT content specifications with a focus on real world radiation therapy situations, which challenge a therapist's problem solving and critical thinking skills. This course prepares the student for the national certification examination and entry-level problem solving.

AL 382 Cardiovascular Monitoring and Scanning (3)

Course for Respiratory Therapy students designed to provide the student with an understanding of cardiovascular monitoring. Areas of study will include an introduction to heart development, review of anatomy and physiology of the heart, hemodynamic monitoring, effects on hemodynamics due to disease states, and cardiac arrhythmia recognition. Prerequisite: Admission to Respiratory Therapy program.

AL 383 Cardiac Sonography Procedures I (3)

The content of this course will an indepth exploration of cardiac embryology, anatomy and physiology, pathophysiology, echocardiographic procedures, imaging techniques, and protocols specific to echocardiography.

AL 384 Cardiac Sonography Procedures II (3)

A detailed and in-depth exploration of various cardiac pathology and their echocardiographic manifestations. Prerequisite: Admission to the Diagnostic Medical Sonography program or consent.

AL 385 Cardiac Sonography Clinical I (6)

Students are assigned to various clinical settings to allow the student to begin developing the technical skills necessary to become an entry-level sonographer. Students receive supervision, training, and feedback from a registered sonographer.

AL 386 Cardiac Sonography Clinical II (6)

Students are assigned to various clinical settings to allow the continuation of developing the technical skills necessary to become an entry-level sonographer. Students receive supervision, training, and feedback from a registered sonographer.

AL 387 Cardiac Sonography Clinical III (3)

Students are assigned to various clinical settings to allow the continuation of developing the technical skills necessary to become an entry-level sonographer. Students receive supervision, training, and feedback from a registered sonographer.

AL 388 Cardiac Sonography Procedures III and Registry Review (2)

The course will cover new and highly specialized procedures in the realm of echocardiography, such as stress echo (treadmill and pharmacological), contrast echocardiography, diastology, and transesophageal echocardiography. It will also provide a review and Mock Testing for Boards. Prerequisite: Admission to the Diagnostic Medical Sonography program or consent.

AL 389 OBGYN Sonography Procedures I (3)

This Course will introduce introductory topics concerning obstetrical and gynecological sonography including but not limited to anatomy, pathophysiology, anatomical disease processes, fetal anatomy and disease, patient care applications and sonographic principles and practices. Prerequisite: Admission to the Diagnostic Medical Sonography program or consent.

AL 390 Special Topics/Allied Health (1-3)

Selected topics related to allied health which vary from semester to semester. Announced in advance. Prerequisite: Consent.

AL 391 Chemistry Application in Respiratory Care (3)

Introduction to medical chemistry. This course will discuss the basic aspects of chemistry and biochemistry as related to cardiopulmonary physiology and therapeutic intervention. This course includes atomic theory, chemical bonding and acid-base balance.

AL 392 OBGYN Sonography Procedures II (3)

This Course will continue to explore obstetrical and gynecological sonography including but not limited to anatomy, pathophysiology, anatomical disease processes, fetal anatomy and disease, patient care applications and sonographic principles and practices. Additionally special topics, fetal anomalies, and interventional OBGYN sonography practices will be explored.

AL 393 Vascular Sonography Procedures I (3)

An in-depth discussion of the anatomy, physiology, and pathophysiology of the peripheral and cerebral vascular systems. The focus will be on the cerebrovascular system and the arterial and venous systems of the lower extremities. Hemodynamics, Doppler waveforms, pressure measurements, plethysmography, appropriate pharmacology, sonographic appearance, and scanning techniques will be discussed. This will include arterial and venous systems, therapeutic intervention, and non-invasive testing-exam protocols. Prerequisite: Admission to Diagnostic Medical Sonography program.

AL 394 Vascular Sonography Procedures II (3)

Continuation of AL 393 to include discussion of the anatomy, physiology, and pathophysiology of the abdominal and peripheral vascular systems. The focus will be on the abdominal vasculature and on the arterial and venous systems of the upper extremities. Hemodynamics, Doppler waveforms, pressure measurements, plethysmography, appropriate pharmacology, sonographic appearance and scanning techniques will be discussed. Therapeutic intervention includes arterial and venous systems, non-invasive testing, and exam protocols. Prerequisite: Admission to the Diagnostic Medical Sonography program or consent.

AL 395 Vascular Sonography Clinical I (6)

Students are assigned to various clinical settings to allow the student to begin developing the technical skills necessary to become an entry-level sonographer. Students receive supervision, training, and feedback from a registered sonographer.

AL 396 Vascular Sonography Clinical II (6)

Students are assigned to various clinical settings to allow the continuation of developing the technical skills necessary to become an entry-level sonographer. Students receive supervision, training, and feedback from a registered sonographer. Prerequisite: AL 395.

AL 397 Vascular Sonography Clinical III (3)

Students are assigned to various clinical settings to allow the continuation of developing the technical skills necessary to become an entry-level sonographer. Students receive supervision, training, and feedback from a registered sonographer.

AL 398 Vascular Procedures III and Registry Review (2)

The course will cover new and highly specialized procedures in the realm of vascular sonography. Among the content will be hemodialysis access, transcranial doppler, and mapping procedures. It will also provide review and Mock Testing for Boards. Prerequisite: Admission to the Diagnostic Medical Sonography Program or consent.

AL 399 Health Information Systems (3)

In this course, students will examine the impact of data and technology on current health care practice. Current trends and future challenges will be discussed with a focus on utilizing information to support and improve health care decision-making. Prerequisite: Admission to the Bachelor of Health Science major/minor or HIT program.

AL 400 Supervisory Practices for the Health Care Professional (3)

The course will introduce students to basic supervisory functions and responsibilities related to managing in health care organizations. Prerequisite: admission to the Bachelor of Health Science major.

AL 405 Financial Issues in Health Care (3)

This course will introduce the student to common financial practices and issues in today's health care facilities, including a focus on the regulatory environment. Prerequisite: Admission to the Bachelor of Health Science major/minor and MA 112 or 116 with a C or higher grade.

AL 420 Current Issues in Health Care (3)

This course will explore current health care issues from the perspective of the Health Services Administrator. Special emphasis will be placed on the impact of the issue under study for the delivery, practice and organization of the American Health care system. Prerequisite: Completion of AL 375 or consent of BHS advisor.

AL 450 Application of Quality Improvement in Health Care (3)

The course builds on the foundations of quality improvement class. It provides students the background to develop and implement quality assurance and patient safety programs according to national initiatives. Students explore methods of making organizations and individuals more adaptive and productive. Emphasis is on using tools and techniques that will improve critical thinking skills and students will apply communication skills to maintain positive stakeholder relationships. Prerequisite: Admission to the Bachelor of Health Science major and AL 367.

AL 460 Research in Health Care (3)

This course is designed to introduce students to the purpose and process of research in health care. Special emphasis is placed on the importance of evidence-based practice in health care. Prerequisite: Admission to the Bachelor of Health Science major and EN 300.

AL 480 Senior Seminar In Healthcare (3)

A capstone course designed to provide integration and application of health care administration and leadership principles. This course also requires a summative reflection of the student's experience and growth as a health care leader. Prerequisite: Admission to the Bachelor of Health Science Health Services Administration major, EN 300, and senior standing. This course should be taken during the last semester. Medical imaging majors require BHS advisor approval.

AL 600 Foundations of Health Care Education (3)

Introduces students to essential aspects of understanding and facilitating adult learning. Students will examine the characteristics, needs, and motivations of adult learners and uncover personal philosophical orientations toward teaching and learning.

AL 601 Legal/Ethical Issues in Health Care (3)

Provides foundational knowledge concerning legal and ethical concepts that guide health care professionals. The primary focus will be on applying ethical theories and legal principles to contemporary health care issues or cases.

AL 602 Special Populations in Health Care (3)

Includes a discussion and analysis of the impact of special populations on the health care delivery system. Major topics will include diverse ethnic populations, rural populations, migrant populations, minority populations and populations defined by diagnosis (e.g., diabetes, etc). This course is designed to acquaint the student with health care delivery implications of globalization in the context of cultural competence.

AL 603 Health Care Decision Making (3)

Decision making is the study of identifying and choosing alternatives based on reducing uncertainty and selecting a reasonable choice based on the values and preferences of the decision maker. Decision making theories, methods, and processes will be studied as well as the application of decision analysis and knowledge-based systems, including data mining, data warehouses, data marts, clinical data repositories, and data modeling. Prerequisite: None.

AL 620 Research Methods in Health Care Education (3)

Introduces students to the general principles of quantitative and qualitative research approaches and prepares students to become critical thinkers and responsible consumers of research. Emphasis is placed on the processes of planning, conducting, and reporting research results focused on the improvement of practice (action research).

AL 622 Educational Program Administration (3)

Focuses on the fundamental elements of educational health professions program planning, assessment, and troubleshooting by examining the activities of Program Directors and Clinical Coordinators. The impact of credentialing, accreditation, and licensure requirements is discussed along with issues related to higher education such as general education requirements, academic advising, grievance/appeal processes, and tenure and promotion.

AL 624 Assessment in Health Care Education (3)

Builds a foundation of classroom assessment literacy focusing on the accurate collection of information about student achievement and its effective use to improve teaching and learning. Students will develop skills and knowledge to formulate measurable learning targets, ensure a match between targets and assessment method, and design various classroom assessments.

AL 626 Instructional Technology (3)

Prepares students to apply theoretical frameworks to evaluate, select, and plan for instructional technology use to facilitate learning. Through practical application students will discover how to integrate technology into instruction and gain an awareness of the benefits and possible challenges of technology use.

AL 720 Curriculum/Instructional Methods in Health Care Education (3)

Explores various conceptualizations of curriculum and the role of educators in the curriculum development process. Instructional design models and various methods of instruction will be examined and applied.

AL 722 Trends in Health Care and Education (3)

Examines significant trends within health care and education practice including the influence of political, social, and economic variables.

AL 724 Health Care Education Internship (3)

This is the first of a two course sequence. Provides students with the foundation needed to develop an approved proposal for a comprehensive capstone project that draws upon skills and knowledge acquired in the MHS program and related experiences. The proposed project will be completed in the Capstone II course during the last semester of academic enrollment.

AL 726 Capstone II (3)

This is the last of a two course sequence. Provides the opportunity to integrate and apply knowledge and skills gained from the MHS course of study and other related experiences through the completion of a comprehensive capstone project.

AL 777 Continuous Enrollment (1-3)

This course is to allow students additional time to complete Capstone, Thesis or Practicum requirements. Prerequisites: Instructor Permission

Anthropology (AN)

AN 112 Cultural Anthropology (3)

Students will learn about contemporary global cultures to develop a culturally relative understanding of and appreciation for diverse societies. Students will explore major domains of culture (such as economics, kinship, social stratification, political organization, communication, and religion) and the impact of globalization and colonialism on culture. Finally, students will explore how anthropological work is applied to contemporary social problems. Prerequisites: None

(General Ed Social Science. Global Citizenship Ethics Div.)

AN 113 Linguistic Anthropology (3)

This course is an introduction to the cross-cultural examination of language and communication. Students will learn how language shapes culture, behavior, and thought, the evolution of language over time, the impact of globalization and colonialism, and the intersectionality of race, ethnicity, class, and gender on language. The class will explore how linguistic anthropologists conduct research and apply research to real world settings.

(General Ed Social Science. Global Citizenship Ethics Div.)

AN 114 Introduction to Archaeology (3)

This course will introduce students to the theories and methods of archaeological science to understand how archaeological remains are used to interpret human prehistory. This course covers what archaeology has revealed about the evolution and experience of humankind from the origins of stone-tool use to the emergence of complex societies around the world. No prerequisites.

(General Ed Social Science. Critical and Creative Thinking.)

AN 116 Biological Anthropology (3)

This course introduces students to biocultural evolution across time and space. Students will investigate the biological aspects of human life through the study of the principles of evolution, genetics, adaptation, and human variation. This course will explore the evolutionary history of human ancestors and nonhuman primates using fossil evidence. Prerequisite: None.

(General Ed Social Science. Quan and Sci Reason Lit.)

AN 118 Introduction to Forensic Science (3)

This course provides an overview of the multi-disciplinary nature of forensic science. Students will learn how forensic scientists in various fields, such as anthropology, biology, chemistry, criminal justice, and digital science, apply the scientific method to collect and evaluate evidence. Prerequisite: None.

(General Ed Social Science. Quan and Sci Reason Lit.)

AN 200 Special Topics in Anthropology (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken more than one semester. Prerequisite: AN 112.

AN 300 Special Topics in Anthropology (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: AN 112.

AN 302 Culture, Gender & Sexuality (3)

This course introduces students to anthropological perspectives on sex, gender, and sexuality. Special attention is given to the social, political, economic, and cultural processes that shape us to act and think as particular kinds of sexed, gendered, and sexualized persons, including the complexities and dilemmas posed by intersecting identities (e.g. race, ethnicity, class, religion). Prerequisite: AN 112, or AN 113, or consent of instructor.

AN 303 Human Origins and Evolution (3)

This course examines the evolutionary fossil record of human and nonhuman primates from a bio-cultural perspective. Students will explore current anthropological methods and theories used to interpret the evolutionary data including the development of bipedalism, human adaptations, and the emergence of Homo sapiens. Prerequisite: AN 116.

AN 311 Primate Social Behavior (3)

This course focuses on the behavioral ecology and evolution of the Order Primate. Students will examine the taxonomic classification of nonhuman primates and investigate how evolution has shaped the diversity of their social structure and behavior. In addition to watching several anthropological films, we may observe nonhuman primate interactions at a local zoo. Prerequisite: AN 116.

AN 312 Medical Anthropology (3)

This course will explore biocultural constructions of health and illness across the globe. Students will critically assess biomedical assumptions and the effects of inequality to gain a better understanding of how different societies view and treat illness, the interaction of biology and culture, and the political and economic roles in relation to patterns of health and healing. Prerequisite: AN 112 or AN 116.

AN 313 Religion, Magic and Witchcraft (3)

This course is a cross-cultural study of the forms and functions of non-Western and Western supernatural beliefs. Students will examine a wide range of religious systems and worldviews including myth, ritual, symbolism, magic, ancestor worship, witchcraft, religious healing, and spirit possession. Major theories about the origins and social functions of such beliefs and practices will be explored. Prerequisite: AN 112.

AN 314 The Im/migrant Experience in America (3)

This course explores the historical and modern implications of im/migration in the United States; how globalization, colonialism, and transnationalism affect im/migrant communities; and how im/migrants acculturate into their host communities. Special attention will be given to the experiences of im/migrants in Kansas today. Prerequisite: AN 112, AN 113, or consent of instructor.

AN 316 Forensic Anthropology and Laboratory (3)

In this laboratory-based course, students will apply forensic anthropological methods and theories to recover and positively identify human remains and to evaluate trauma and taphonomy in medico-legal contexts. Forensic anthropology will also include an overview of the historical and current developments in the field. Prerequisites: AN 114 or AN 116.

AN 317 Peoples and Cultures of Africa (3)

This course explores sub-Saharan African societies through selected case studies covering topics such as kinship, gender, religion, political economy, geography, and contemporary social issues. Analysis includes the pre-colonial, colonial, and post-colonial histories of the various groups. Prerequisite: AN 112.

(General Ed Social Science. Global Citizenship Ethics Div.)

AN 318 North American Archaeology (3)

As a survey of the diverse prehistoric cultures and environments of North America, this course will examine economic, technological, and organizational changes from the earliest hunter-gatherers to pre-Columbian complex societies. Students will gain an understanding of the history and theory of North American archaeology and explore experimental archaeological techniques through ancient tool making. Prerequisite: AN 114 or consent of instructor.

AN 319 Peoples and Cultures of Indigenous North America (3)

This course explores indigenous North American cultures through selected case studies covering topics such as kinship, gender, religion, political economy, geography, and contemporary social issues. Analysis includes the pre-colonial, colonial, and post-colonial experiences of the various groups. Prerequisite: AN 112.

AN 320 Ancient Latin America (3)

This course is an archaeological survey of the Pre-Columbian heritage of Mesoamerica and South America. Cultures such as the Olmec, Maya, Aztec, Moche, Nazca, Chimú, and Inca will be examined through artifacts, art, architectural remains, and ethnohistoric documents. Students will achieve an understanding of the growth and decline of complex societies, and will examine the relationship between the past and contemporary Latin American cultures. Prerequisite: AN 114 or consent of instructor.

AN 321 Anthropology of Women (3)

The roles and statuses of women around the world are examined in the three sub-systems of culture – material, social and ideational – including in-depth studies of women in horticultural, peasant, and modern societies. Prerequisite: AN 112 or consent of instructor.

AN 322 Visual Anthropology (3)

This course explores how images and other types of media are created, circulated, and consumed by members of diverse cultures and by anthropologists. Topics to be covered include how culture is portrayed in media and in museums, the use of media as a tool in ethnographic research; analysis of media from an anthropological perspective; and the creation of the “other” through media. Prerequisite: AN 112.

AN 324 History and Theory of Anthropology (3)

This course examines the history of Anthropology while also exploring current debates, schools of thought, and contemporary theories from a four-field perspective. Prerequisites: Declared major, AN 112, and junior standing.

AN 327 Fragmentary Human Osteology (3)

This laboratory-based course focuses on the growth and development of the human skeletal system and the identification of fragmentary skeletal and dental remains. Students will also explore how trauma, pathology, taphonomy, and cultural factors affect skeletal biology. Prerequisite: AN316.

AN 336 Globalization (3)

An examination of work, life, and culture in an increasingly globalized world. Prerequisite: AN 112 or consent of instructor.

AN 358 Human Skeletal Biology and Laboratory Methods (3)

In this laboratory-based course, students apply the principles, methods, theories, and techniques that anthropologists use to macerate, identify, analyze, and curate human skeletal remains. Students will work with real human skeletal material and forensic cases in a series of hands-on learning activities. Prerequisite AN 327.

AN 362 Methods of Social Research (3)

Specific research techniques employed by sociologists, anthropologists, and other social scientists are considered, including polls and surveys, the interview and participant observation. Each student will complete an outside project. One of two capstone courses required of Anthropology majors. Prerequisites: Declared major and 15 hours of Anthropology; or consent of instructor.

AN 363 Internship (1-3)

Field training to provide students with experience in an operational or research setting through assignment to local social agencies or museums approved and supervised by a faculty member. May be elected twice for a maximum of three hours. Prerequisites: Declared major, senior standing, and consent of instructor.

AN 366 Directed Readings (1-3)

Under supervision of a faculty member, students will undertake an extensive readings course to further their understanding of a specific topic within Anthropology. May be repeated for a maximum of six hours. Students are limited to six hours total from AN 366 and AN 367 combined. Prerequisite: Declared major, junior/senior standing, and consent of instructor.

AN 367 Directed Research (1-3)

Upon supervision of a faculty member, students will undertake an independent research project in a specific aspect of Anthropology. May be repeated for a maximum of six hours. Students are limited to six hours total from AN 366 and AN 367 combined. Prerequisite: Declared major, junior/senior standing, and consent of instructor.

AN 369 Kansas Archaeology (3)

This course is a survey of the archaeological record of Kansas from the earliest Paleoindian inhabitants through the Historic period. Students may have the opportunity to visit archaeological sites and museums in Kansas and participate in archaeological analysis through hands-on work with collections. Prerequisite: AN 114 or consent of instructor.

AN 370 Historical Archaeology (3)

In this course, students will examine the recent past through material remains of societies that also have some form of written evidence. Students will also learn about historic preservation, museum curation methods, and historic interpretation for public archaeology. Prerequisite: AN 114 or consent of instructor.

AN 371 Field and Lab Methods in Archaeology (3)

In this course, students will learn how to properly survey and excavate an archaeological site and how to identify and analyze artifacts, cultural features, and sediments using state-of-the-art techniques. Students will gain hands-on experience working in a mock-excavation setting and with real archaeological collections. This course is a prerequisite for AN 372 Archaeological Field School. Prerequisite: AN 114 or consent of instructor.

AN 372 Archaeological Field School (1-6)

This course provides students with practical, hands-on experience where they apply their archaeological training and knowledge at a field site held off-campus. The field school may include survey, location, and excavation techniques, technical mapping, and proper documentation and collection of field data. Long-distance and overnight travel may be required. Prerequisite: AN 371 or consent of instructor.

AN 374 Forensic Archaeology (3)

In this course, students will learn how to properly survey and excavate outdoor crime scenes containing human remains and forensic evidence using state-of-the-art techniques. Students will gain hands-on experience working in a mock-forensic excavation setting. This course is a prerequisite for AN375 Forensic Anthropology Field School. Prerequisites: AN114 or AN316.

AN 375 Forensic Anthropology Field School (3)

This course provides students with practical, hands-on experience through a series of mock forensic cases including surface scatters, burials, and/or fatal fires. Students will apply knowledge gained in AN374 Forensic Archaeology to simulated forensic cases beginning with the initial search to the recovery and transport of remains to the laboratory. Prerequisites: AN 374.

AN 397 Special Topics: Archaeology (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken more than one semester. Prerequisite: AN 114.

AN 398 Special Topics: Forensic Anthropology (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken more than one semester. Prerequisite: AN 316.

AN 400 Special Topics in Anthropology (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: AN 112 or consent of instructor.

AN 428 Case Studies Forensic Anthropology (3)

Utilizing real forensic case studies, this class will highlight the anthropological techniques and methods used to recover and identify human remains. Students will work on cases from initial recovery to the preparation of the final forensic anthropological case report. Prerequisite: AN 358 and AN374.

AN 490 Applied Anthropology (3)

In this course, students will apply core knowledge from the subfields of anthropology to real-world problems. Special attention is given to reflection and professional preparation for various career paths including nonprofit and community-based organizations, businesses and corporations, and governments. Prerequisite: AN324 and junior/senior status.

AN 600 Special Topics in Anthropology (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: Admission to the MLS program and consent of instructor.

AN 621 Anthropology of Women (3)

The roles and statuses of women around the world are examined in the 3 sub-systems of culture-material, social and ideational—including in depth studies of women in horticulture, peasant, and modern societies. Prerequisites: AN 112 and admission to the MLS program or consent of instructor.

AN 624 History and Theory of Anthropology (3)

This course examines the history of Anthropology while also exploring current debates, schools of thought, and contemporary theories from a four-field perspective. Prerequisite: AN 112, admission to a graduate program; or consent of instructor.

Applied Math (MAT)

MAT 101 Technical Math I (3)

This course will enable the student to gain confidence with the use of basic math, measurements, and signed numbers. The concepts learned in this course will build problem solving skills that are critical in the workplace. These concepts develop a solid foundation for success in the use of technology.

MAT 102 Technical Math II (3)

This course is a continuation of Technical Mathematics I. The concepts learned in this course will build on problem solving skills using geometry, algebraic expressions and techniques for solving equations. These concepts develop a solid foundation for success in the use of technology.

Applied Studies (AU)

AU 300 Principles of Leadership (3)

This course provides a thorough review of established leadership and management theory, principles, and traits. The course also will focus on leadership skills relevant to future leaders in a wide variety of professional fields.

AU 495 Proseminar (1)

This course is designed as a forum for graduate and faculty exchange of ideas related to teaching scholarship and creative activities. Faculty or faculty and their students can present on their scholarship or research. This is a forum for the exchange of ideas and provides a venue for graduate and select undergraduate students to learn about research and creative endeavors. This forum can also provide an opportunity for collaboration, inquiry, critical analysis and collegial exchange of ideas. For graduate and select undergraduate students this can be an opportunity to present scholarly achievements to a professional audience. A/Pass/Fail only. Course can be repeated.

AU 595 Proseminar (1)

This course is designed as a forum for graduate and faculty exchange of ideas related to teaching scholarship and creative activities. Faculty or faculty and their students can present on their scholarship or research. This is a forum for the exchange of ideas and provides a venue for graduate and select undergraduate students to learn about research and creative endeavors. This forum can also provide an opportunity for collaboration, inquiry, critical analysis and collegial exchange of ideas. For graduate and select undergraduate students this can be an opportunity to present scholarly achievements to a professional audience. A/Pass/Fail only. Course can be repeated.

Army ROTC (ARMY)

ARMY 101 Introduction to Military Science I (1)

Required introductory course for the Army military science program. Course is comprised of one hour of lecture and one hour of laboratory per week. Introduces the military science program as an element of the reserve forces and includes an examination of major legislation, the Army organization structure, and military leadership techniques. Course must be taken in conjunction with ARMY 101L.

ARMY 101L Army ROTC Lab (0)

Required ROTC Lab. Must be taken in conjunction with ARMY 101.

ARMY 102 Introduction to Military Science II (1)

Course comprised of one hour of lecture and one hour of leadership laboratory per week. A general study and appreciation of the American military system from colonial times to the present. The course identifies factors present in the American society and national policy in each particular historical period which influenced the development of American military systems. The relationship between the military establishment and the larger American society is examined in each historical period. Course must be taken in conjunction with ARMY 102L Lab. Prerequisites: ARMY 101/ARMY 101L or department approval.

ARMY 102L Army ROTC Lab (0)

Required ROTC Lab. Must be taken in conjunction with ARMY 102.

ARMY 201 Basic Military Science I (1)

Course comprised of one hour of lecture and one hour of laboratory per week. Analyzes the principles of war and military leadership at small unit level, and introduces principles of military writing. Course must be taken in conjunction with ARMY 201L Lab. Prerequisites: ARMY 102/ARMY 102L or department approval.

ARMY 201L Army ROTC Lab (0)

Required ROTC lab. Must be taken in conjunction with ARMY 201.

ARMY 202 Basic Military Science II (1)

Course is comprised of one hour of lecture and one hour of leadership laboratory per week. Curriculum consists of the fundamentals of topographic map reading and their application in a field environment. Includes instruction in various types of maps, marginal information, topographic symbols and colors, scale, distance, direction and use of the magnetic compass. Course must be taken in conjunction with ARMY 202L Lab. Prerequisites: ARMY 201/ARMY 201L or department approval.

ARMY 202L Army ROTC Lab (0)

Required ROTC lab. Must be taken in conjunction with ARMY 202.

ARMY 301 Theory & Dynamics of Tactical Operations I (3)

Course is comprised of three hours of lecture and two hours of leadership laboratory per week. A comprehensive study of conventional tactical operations. Emphasizes the fundamentals of land warfare and the qualities necessary to conduct fluid, non-linear operations. Introduces the student to the tenets of Air-Land Battle, the underlying structure of modern warfare, the dynamics of combat power, and the application of classical principles of war to a contemporary battlefield. Approved for degree credit in the College of Liberal Arts and Sciences. Such courses count within the limit of 25 hours accepted from other schools and divisions. One hour lecture and one hour lab (ARMY 301L) per week. Prerequisite: ARMY 202 or KU department approval.

ARMY 301L Army ROTC Lab (0)

Required ROTC lab. Must be taken in conjunction with ARMY 301.

ARMY 302 Theory & Dynamics of Tactical Operations II (3)

Course is comprised of three hours of lecture and two hours of leadership laboratory per week. Expands on the application of conventional tactical operations in the low, medium, and high intensity conflict spectrum. Examines the three-dimensional nature of modern warfare and the unified battlefield. Approved for degree credit in the College of Liberal Arts and Sciences. Such courses count within the limit of 25 hours accepted from other schools and divisions. One hour lecture and one hour lab (ARMY 302L) per week. Prerequisite: ARMY 301 or KU department approval.

ARMY 302L Army ROTC Lab (0)

Required ROTC lab. Must be taken in conjunction with ARMY 302.

ARMY 303 Military Conditioning (1)

Introduction to the theoretical and practical aspects of developing physical fitness programs for all Army personnel from the commander or supervisor's perspective. Provides an overview of total fitness, defines physical fitness, outlines the phases of fitness, discusses various types of fitness programs, and presents evaluation criteria.

ARMY 401 Concepts of Military Management (3)

Course is comprised of three hours of lecture and two hours of leadership laboratory per week. An introduction to the military management system with special attention to the functions, organizations, and operations of military training, logistics and administration. The use of standardized staff formats in the development of plans and orders is emphasized from the standpoint of the leader with limited resources. Extensive use of standard staff procedures is emphasized in problem solving scenarios. One hour lecture and one hour lab (ARMY 401L) per week. Prerequisite: ARMY 302 or KU department approval.

ARMY 401L Army ROTC Lab (0)

Required ROTC lab. Must be taken in conjunction with ARMY 401.

ARMY 402 The Military Profession (3)

Course is comprised of three hours of lecture and two hours of leadership laboratory per week. A seminar on the military profession as an object of social inquiry. Focus is on the internal structure of the profession, current problems, and interaction with the larger American society. Seminar topics include but are not limited to the following: a historical perspective on the military profession; civil-military relations; social and political impact of military activities; military justice; professionalism versus careerism. One hour lecture and one hour lab (ARMY 402L) per week. Prerequisite: ARMY 401 or KU department approval.

ARMY 402L Army ROTC Lab (0)

Required ROTC lab. Must be taken in conjunction with ARMY 402.

ARMY 450 Military Analysis (1)

A study of present and future military operations; emphasis placed on analysis of problem. The student will defend his/her analysis through written and oral presentations. Prerequisite: Permission of the department chairperson.

Art (AR)

AR 101 Survey of Art History, Prehistoric to Medieval (3)

A survey of major monuments and movements in the history of art from Paleolithic through Medieval times.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

AR 102 Survey of Art History, Renaissance to Contemporary (3)

Major monuments and movements in Western Art from the Proto-Renaissance through the arts of today.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

AR 103 Introduction to Art (3)

The major principles and ideas of art, with emphasis on different purposes art has served in both Western and non-Western cultures. Course is for non-art majors.

(General Ed Creative Performing, General Ed Humanities. Global Citizenship Ethics Div.)

AR 120 2D Design: Digital Elements (3)

An exploration of the fundamentals of visual communication. Students will become familiar with the elements of design and organizational principles. Using traditional and digital media, studio assignments will encourage creative thinking, synthesis and analysis, and problem solving. Prerequisites: none.

(General Ed Creative Performing, General Ed Humanities. Communication.)

AR 121 3-D Design (3)

An expanded investigation of the basic design principles with an emphasis on idea generation and creative translation. Students will learn how to think critically about visual art, problem solve, and consider a broad range of contemporary and historical approaches. Prerequisite: AR 120.

AR 140 Drawing I (3)

Basic principles of drawing and pictorial design. This course is fundamental to all studio courses and should be taken in the freshman year.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

AR 141 Drawing II (3)

A continuation of Drawing I. Prerequisite: AR 140 or equivalent.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

AR 219 Introduction to Printmaking (3)

Drawing and cutting upon the blocks (plywood, linoleum, and masonite), assemblage will be explored for form and texture. Initial prints will be considered temporary evidence of how marks or forms work toward a completed work. Prerequisites: AR 120 and AR 140.

AR 220 Photography I (3)

Lecture and studio. History of the development of the Photographic process, equipment and material. Darkroom procedures with an emphasis on composition and design in the black and white print.

AR 222 Video Game Design (3)

This course introduces the making and creating of 2D/3D video games. Students learn to create a fully interactive video game. This hands-on course focuses on design, aesthetics and interactivity of the video game. Prerequisite: CM 101, AR 131, or equivalent computer competency.

AR 223 Graphic Design I (3)

Introduction to graphic design through formal and theoretical context. Focus is on development of technical skills and design concepts for print production. Prerequisite: AR 120.

AR 226 Video Editing: FinalCut Pro (3)

Fundamentals of digital video, including lighting, sound composition and editing are taught with the aim of creating time-based art forms. Aesthetic issues evident in video design and editing structure will be examined through viewing, discussion and critique. Software: FinalCut Pro. Prerequisite: AR 120 or MM 100.

AR 231 Basic Multimedia (3)

Introduction to the use of social media to share creative artwork, including video and animations. This course covers video capture with simple video cameras or smart phones, movie editing, and posting work to the Internet. It will include basic animation, sound and interactivity. Students must provide their own phone or other video capture device. Prerequisite: None.

AR 240 Painting I (3)

Introduction to oil or acrylic painting techniques. Emphasis is placed on color theory and effects. Subject matter includes still life, landscape, figure and abstraction. Prerequisite: AR 141.

AR 260 Ceramics I (3)

Introduction to ceramics as creative media for utilitarian and expressive purposes. Course content includes forming techniques, the nature of clay and glazes, firing principles and ceramic history. Creative Thinking will be practiced and assessed as part of the ceramic process. Prerequisite: None.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

AR 262 Sculpture I (3)

Introduction to modeling, casting, carving, and construction as basic methods of executing 3-dimensional form. Prerequisite: AR 121.

AR 265 Kiln-formed Glass & Mosaics (3)

Applied design work utilizing glass techniques of cutting, grinding, fusing, and slumping.

AR 291 Art Therapy (3)

Practice of Art Therapy as a treatment and diagnostic tool in the psychiatric setting. Visiting lecturers and field experience will be included. Prerequisite: PY 100.

AR 299 Special Topics in Art (1-3)

Special media or content offerings not covered in other art courses. May be repeated with different topics. Prerequisites as specified for each offering.

AR 300 Art Theory Past and Present (3)

This class will examine approaches to art and art history from mimesis to the competing theoretical approaches used today. Methods employed by critics, historians, sociologists, and others will be studied as constructions that reflect the sociopolitical circumstances of their authors and audience. Prerequisite: AR 101 and AR 102.

AR 301 Ancient Art (3)

The arts of the Ancient Near East, Egypt, Aegean, Greece, and Rome. **(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)**

AR 303 Medieval/Renaissance Art History (3)

Study of the diverse cultural expressions found in art and architecture from the early Medieval to the Renaissance period. Although Western in focus, non-Western influences and exchange will be considered throughout. Prerequisite: AR 101, AR 102, AR 103 or junior standing **(General Ed Creative Performing, General Ed Humanities. Global Citizenship Ethics Div.)**

AR 306 Development of Modern Art (3)

Survey of the broad trends in art and architecture from 17th - 20th century. Course material will be examined through visual and historical analysis, emphasizing the sociopolitical, religious, and cultural shifts for each period. Prerequisite: AR 101, AR 102 or AR 103; or junior standing **(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)**

AR 307 Twentieth Century Art (3)

Examination of the response of the visual art world to historical, cultural and political changes of the twentieth century. Modernist movements, performance, installation, and the effects of globalism will be considered through visual and historical analysis. Prerequisite: AR 101 or AR 102 or AR 103; or junior standing.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

AR 309 Art of Africa (3)

A historical survey of the major arts produced by African cultures. (General Ed Creative Performing, General Ed Humanities. Global Citizenship Ethics Div.)

AR 310 Art of Asia (3)

A survey of the major traditions of art in Asia from Neolithic times through the 19th century. (General Ed Creative Performing, General Ed Humanities. Global Citizenship Ethics Div.)

AR 311 Art of the Americas (3)

An overview of the visual arts traditions of the ancient and contemporary cultures of the indigenous peoples of North, Central and South America.

AR 312 Research in Art History (3)

Library and Archival research and writing on specific research topics in the History of Art. Prerequisite: Major/minor in Art History or consent.

AR 313 Museum Studies (3)

Study of the history, organization and practice of museums as well as art materials, conservation and archival methods. Prerequisite AR 101 or AR 102.

AR 315 History Of Photography (3)

History of photography as related to the visual arts, including technical innovations, major photographers and aesthetic philosophies. Prerequisites: AR 101 or AR 102 or AR 103 or consent.

AR 318 Typography I (3)

Introduction to the basics of typography and design, and to the use of type to solve visual problems. Topics include anatomy, legibility, hierarchy, and verbal/visual relationships. Prerequisite: AR 120

AR 319 Etching (3)

An exploratory course in etching. Emphasis will be placed on black and white techniques, including intaglio, drypoint, and aquatint. Prerequisite: AR 219.

AR 320 Photography II (3)

Course focuses on developing technical proficiency in photography. Students will work primarily with fiber-based paper. Emphasis is placed upon exploration and expansion of traditional photographic values. Prerequisite: AR 220 or consent.

AR 321 Photoshop Imaging (3)

An intermediate course in creative Photoshop software techniques. Students execute assignments such as photo coloring, restoration and retouching, print design, and collage. Prerequisites: AR 120 and AR 131.

AR 322 Graphic Design II (3)

Advanced graphic design course building on concepts learned in Graphic Design I. Emphasis is on systems of design with a focus on branding, packaging, and information design. Prerequisites: AR 120 and AR 131.

AR 323 Silkscreen (3)

An introductory course in silkscreen printing. Sequential thinking for the production of prints plus application of color theories is investigated. Emphasis will be placed on traditional photographic and inventive applicators of silkscreen techniques for the production of personal images. Prerequisite: AR 219.

AR 324 Lithography (3)

An introductory course for lithography. The printing process of stone and plate lithography is explored with emphasis on imagery and the aesthetics of the fine print. Prerequisites: AR 140, AR 141, AR 219.

AR 325 Photoshop Imaging II (3)

An advanced course in photoshop software techniques focusing on aesthetics and critical issues. Students produce assignments with an emphasis on photo composites for illustration, printing, and fine art. Prerequisite: AR 321.

AR 326 2 & 3-D Digital Animation (3)

Through the use of 3-D animation software and Adobe Premier, students will create computer graphics and animations. Also includes digital video and sound. Software: Lightwave 3D, Final-Cut Pro. Prerequisite: AR 223.

AR 332 Advanced Photo Techniques I (3)

Course focuses on developing technical proficiency in use of different format cameras and large size printing. Students explore aspects of photography such as cibachrome, Polaroid transfer and emulsion lifts, or mural printing. Prerequisite: AR 220.

AR 333 Digital Painting and Drawing (3)

This course is designed to provide the student with knowledge and skills necessary to create digital paintings and drawings using a range of visual art media related to digital processes, including AR/VR and 3D virtual painting. Emphasis of the course is focused on the student. Prerequisites: AR 120 or AR 140.

AR 336 Video Editing and FX (3)

This course covers video editing techniques using Final Cut Pro, Motion, Soundtrac Pro and Live Type software. The course introduces various aspects of digital editing related to special effect, motion graphics, visual and special effects using text. The course covers the basics of sound, camera and editing for special effects in film, the use of green screen, composite effects and integration of computer graphics to digital film. Prerequisite: AR 131 or MM 210.

AR 340 Advanced Oil Painting (Topic) (3)

Advanced study of specific oil or acrylic painting techniques, subjects and styles. Includes class paintings, outside work, and research documentation. May be repeated with different content to 6 hours total credit. Prerequisite AR 240.

AR 341 Art of Landscape (3)

Creative activity in the outdoor environment. Students consult with instructor regarding media choice and expressive intent. Prerequisite: AR 140 for students engaged in Painting or Drawing; AR 140 and AR 220 for students emphasizing photography.

AR 342 Watercolor (3)

Exploration of watercolor techniques. Subject matter includes still life, landscape, figure and abstraction. Prerequisite: AR 240

AR 343 Figure Drawing (3)

Drawing from the nude and draped human figure. Prerequisite: AR 141

AR 345 Chinese Painting (3)

Introduction to Chinese Painting techniques, including handling ink and color on raw and sized rice paper. Subject matter includes landscapes, plants, animals and figures. Prerequisite: AR 120 and AR 140.

AR 352 Professional Photographic Lighting (3)

Introduction to studio lighting using 35 mm digital cameras. Students will study the principles of lighting and their practical use in areas such as portraiture, products, food and fashion. Field trips will expose students to professional studios and practices. Prerequisite: AR 220.

AR 353 Alternative Photo Processes (3)

Study of historical non-silver photographic processes used in the early stages of photographic development and currently used by contemporary artists as a creative element. Processes include: cyanotype, Van Dyke, platinum/palladium, salted paper, gum bichromate. Prerequisite: AR 220.

AR 354 Documentary Photography (3)

Course focuses on basic principles and techniques of documentary photography. Topics will vary by semester and will be announced in advance. Prerequisite: AR 220 or consent.

AR 355 Experimental Photography (3)

Experimental and creative methods using digital and historic photographic techniques. Students will experiment and combine new techniques with old, and use the results in mixed-media art. Techniques include: bromoil, pronto plates, albumen on paper, anthotypes, tintypes, mixed-media. Prerequisite: AR 220.

AR 360 Ceramics II (3)

Continued exploration of ceramics with emphasis on wheel-throwing techniques, glaze formulation, and various firing methods. Prerequisite: AR 260.

AR 361 Ceramic Glaze/Surface Exploration (3)

Study of fired ceramic surfaces through experiments with raw materials. Theoretical, historical, and empirical methods are applied to research. Prerequisite: AR 260.

AR 364 Advanced Sculpture (3)

Study of advanced sculptural techniques to achieve artistic expression. May involve environmental or multimedia emphasis. Prerequisite: AR 262. May be repeated with different content. Limit of 9 hours.

AR 365 Kiln-formed Glass & Mosaics (3)

Applied design work utilizing glass techniques of cutting, grinding, fusing, and slumping. 365-level students are expected to complete more advanced projects and class presentations. Prerequisite: AR 121 or AR 265.

AR 380 Elementary Art Education (3)

Study of the artistic development of children, practice with art materials, techniques, and concepts appropriate to the elementary grades including planning and presentation of art lessons. Production, aesthetics, criticism, and history of artworks are emphasized as the basis for children's growth in art learning.

AR 381 Experimental Media (3)

Exploration of papermaking, batik, weaving, and metal working processes. Health and safety, traditions and current trends in crafts are studied. Education majors write unit/lesson plans. Non-ED majors do extra projects. Prerequisites: AR 120, AR 121.

AR 382 Methods and Philosophy in Art Education (3)

Examination of historical and current theories of art education, the development of personal philosophy of art education, and the examination of curriculum goals and objectives. Effective teaching methods for lesson planning, presentation, and evaluation are studied.

AR 390 Independent Study in Art (1-3)

Students work with faculty member to complete independent art projects. Does not involve formal group faculty critiques. Primarily intended for advanced nonmajors. Prerequisites: Advanced course work in discipline, mentor approval, chair approval.

AR 391 Art Therapy (3)

Practice of Art Therapy as a treatment and diagnostic tool in the psychiatric setting. Visiting lecturers and field experience will be included. Prerequisite: PY 100.

AR 398 Art and Culture Abroad (0-3)

Teaches students how to respectfully engage with people and places outside of Kansas, with most trips focused on international experiences. The course may be counted as either studio or art history credit. Students are expected to research the destination's culture in order to communicate their knowledge through art and/or written projects. Prerequisites: None.

AR 399 Special Topics (0-3)

Special media or content offerings not covered in other art courses. May be repeated with different topics. Prerequisites as specified for each offering

AR 400 Senior Exhibition (1)

Preparation and presentation of an exhibit of student's artwork. Prerequisite: BFA-senior status, BA with Department approval.

AR 401 Internship (1-3)

Work experience in art-related businesses, institutions, or non-profits. 3 hrs required for all BFA majors. Licensure students meet requirement through student teaching. Prerequisite: Junior/Senior Art major and instructor permission.

AR 402 Art Forum (1)

Professional preparation for art majors. Topics include portfolio preparation, marketing, gallery representation, graduate schools, grant writing, and other concerns of art professionals. Required for BA art majors. Prerequisite: Junior/Senior art major.

AR 403 Workshop in Art Media (3)

Independent work under faculty mentor in studio area of choice. Must include written plan, research, and report. Students must present work for mid-term and final critiques by all studio faculty. May be repeated for limit of 6 hours. Prerequisite: Jr or Sr BFA Major.

AR 404 Professional Practices (3)

Professional preparation for all art majors, taken the semester prior to AR 400 Senior Exhibition. Includes exhibition preparation, portfolio, careers, and other professional concerns of fine artists. Prerequisite: Senior Art major.

AR 407 Themes-Contemporary Art Practice (3)

This course is equal parts art history, theory and studio. Includes exploration of contemporary artists, practices, new audiences and markets with an emphasis on studio experimentation and production. Prerequisite: AR 102.

AR 418 Advanced Typography (3)

Advanced course building on concepts learned in AR318. Emphasis on multi-page layouts through typographic theory and application. Prerequisites: AR 223 and AR 318.

AR 419 Advanced Relief Printing (3)

In-depth study and experimentation with various relief processes including large scale printing, Prereq: AR 219.

AR 421 Advanced Digital Painting/Drawing (3)

The course is designed to provide the students with advanced knowledge and skills in digital paintings and drawing. Students will explore a variety of visual art media related to the drawing and painting process, which will be created digitally via computer and software. Emphasis of this course is focused on the wide format artwork and advanced creative expression. The students will demonstrate artistic design, creativity, and concepts in the language of paintings and drawings. Prerequisite: AR 327.

AR 426 Interactive Art: Digital (3)

Students will learn to make their artwork interactive digitally and also make it compatible for web interactivity. The process will include using various types of digital software and the web. Prerequisite: AR 223.

AR 429 Web Design (3)

An introduction to web design through front end web development. Focus on interactivity and Information Architecture to support usability and web standards. Students will apply design principles and explore visual organization of digital space. Prerequisites: AR 223 or AR 318.

AR 432 Advanced Photo Techniques II (3)

See course description under AR 332. Students enrolled at the 432 level must complete additional research in a photo technique and document their research through creative work. Prerequisite: AR 332.

AR 441 Art of Landscape II (3)

Creative activity in the outdoor environment. Students consult with instructor regarding media choice and expressive intent. Advanced students are expected to bring a more experienced and personal creative approach to the course, and are evaluated accordingly. Prerequisite: AR 341.

AR 442 Advanced Watercolor Painting (3)

In-depth study of personal expression through the watercolor medium. Prerequisite: AR 342.

AR 443 Figure Drawing II (3)

Advanced course in drawing the nude and draped human figure. Prerequisite AR 343.

AR 445 Advanced Chinese Painting (3)

Continuation of Chinese Painting with emphasis on experimentation in techniques and pursuit of personal artistic language. Prerequisite: AR 345.

AR 453 Alternative Photo Processes II (3)

See course description for AR 353. AR 453 will study one process of choice in-depth. Prerequisite: AR 353.

AR 454 Documentary Photography (3)

Course focuses on basic principles and techniques of documentary photography. Topics will vary by semester and will be announced in advance. Prerequisite: AR 220 or consent.

AR 455 Experimental Photography II (3)

Experimental and creative methods using digital and historic photographic techniques. Students will experiment and combine new techniques with old, and use the results in mixed-media art. Techniques include: bromoil, pronto plates, albumen on paper, anthotypes, tintypes, mixed-media. Advanced students are expected to complete in-depth research and professional level work in chosen techniques. Prerequisite: AR 355.

AR 460 Advanced Ceramics (Topic) (3)

Study of specialized ceramic techniques of firing, surface and forming to achieve differing purposes. May involve multimedia applications. May be repeated with different topic. Limit of 9 hours. Prerequisite AR 360.

AR 600 Directed Grad Study Art Studio (1-3)

Graduate students work with appropriate faculty to study in art studio. Written documentation of research is required. Repeatable to 6 hours credit with different subject matter. Prerequisites: Chair permission, undergraduate experience in the discipline.

AR 601 Dir. Grad. Study-Art History (1-3)

Graduate students work with Art History faculty to research and document study in art history. May be coordinated with upper division Art History course, but must include in-depth study and writing appropriate for graduate level. Prerequisites: Chair permission, undergraduate experience in the discipline.

AR 680 Grad Field Exper Art Educ (1-3)

Fieldwork in educational setting, such as public school, museum, community center, summer, or after school programs. Application of personal research in studio and/or art history to educational settings. Prerequisites: Chair permission, Admission to M. Ed. Program in Curriculum and Instruction with concentration in Art.

AR 690 Graduate Thesis Art (3)

Culmination of artistic research in Art Studio and Art history as part of Master of Education degree in Curriculum and Instruction with Concentration in Art. Must include written thesis relating art production/research to education. Must also include exhibition or project documentation. Prerequisites: Chair permission, Completion of 30 hours in M. Ed. in Curriculum and Instruction with concentration in Art Degree Program.

Astronomy (AS)

AS 101 Introduction to Astronomy/Cosmology (3)

A qualitative study of stellar, galactic, and extragalactic astronomy and cosmology surveying what is known and how it is known. (General Ed Natural Science. Quan and Sci Reason Lit.)

AS 102 Introduction to Astronomy - Solar System (3)

A qualitative study of the history of astronomy, the origin, evolution, and functioning of the solar system surveying what is known and how it is known.

(General Ed Natural Science. Quan and Sci Reason Lit.)

AS 103 Observational Astronomy (1)

Use of telescope, planetarium, and other laboratory equipment commonly used in astronomy together with selected descriptive experiments in astronomy. Prerequisite: AS 101 or AS 102 or consent of instructor.

AS 104 Life in the Universe (3)

A scientific investigation of the question "Are we alone in the universe?" Course content includes the origin and properties of stars and planets, the requirements for life, and the emergence and sustainability of civilizations. Students will complete a variety of interactive assignments and a term project. Prerequisite: None.

(General Ed Natural Science. Quan and Sci Reason Lit.)

AS 201 Introduction to Astro Photography (1)

Photographic procedures and techniques peculiar to astronomical photography. Prerequisite: Consent of instructor.

AS 251 General Astronomy (3)

A review of the key ideas and discoveries in astronomy at the intermediate level. Prerequisite: AS 101 or AS 102, and MA 116 with a grade of C or better, or consent of instructor.

AS 360 Research in Astronomy (1-2)

Research in any of the fields of astronomy/astrophysics. Prerequisite: Consent of instructor.

AS 370 Special Subjects/Astronomy (1-5)

Material to be chosen according to student interest from any one of a number of astronomical subjects. Offered on demand as teaching schedules permit. Prerequisite: Consent of instructor.

Auto Technology (AUT)

AUT 111 Engine Overhaul (3)

Engine overhaul introduces the student to the concepts and skills necessary to diagnose and overhaul automotive engines. Areas covered in this class include introduction to specialty tools and their correct use, complete engine disassembly, inspection and measurement of internal components including heads, valve resurfacing, and proper fitting and reassembly of entire "long block". Class time is divided between classroom and lab.

AUT 130 Manual Transmission I (2)

Manual Drive Train & Axles I is a basic introduction to the manual transmission found in the automotive industry. The course includes an introduction to the theory behind manual transmissions, identification of the different types of transmission and their components, and an introduction to the specialized tools used in servicing transmissions, synchromesh transmissions, gear ratios found in different transmissions, an introduction to manual clutches and transfer cases, and drive shaft technology including CV joint and bearing replacement. Students will receive instruction that will assist them in taking the Automotive Service Excellence (ASE) exams after successfully completing the 1st and 2nd levels of the automotive technology program.

AUT 140 Suspension and Steering I (3)

Suspension & Steering I introduces automotive steering and suspension systems. The course includes hydraulic principles, bushing replacement, long and short arm diagnosis and replacement, parallelogram steering geometry diagnosis and repair, McPherson strut strip down and refit, and the effect of damping and rebound on the vehicle handling, spring design measuring, and replacement. Classroom time is divided between lecture, discussion, and individual learning activities.

AUT 145 Suspension and Steering II (3)

Steering & Suspension II is the advanced application of knowledge and hands-on skills learned in AUT140 (Steering & Suspension I). The course includes the use of alignment geometry and computerized alignment equipment to diagnose and repair steering suspension problems and to verify that a vehicle's suspension and steering components are within manufacturer's specifications. It also includes removing and replacing steering and suspension components according to manufacturer's specifications, inspecting, servicing, and repairing wheel and tire assemblies for optimum performance. Prerequisite: AUT140

AUT 150 Brakes I (3)

Brakes I is a basic introduction to automotive brake technology. The emphasis in this course is on diagnosing and maintaining brake systems. It covers identification of brake parts and how they function, the use and types of friction materials and heat dissipation, stripping and refitting disc and drum brakes, rotor diagnosing including measurement and cutting, identification of pad types, hydraulic principles and brake bleeding. The course is closely aligned with NATEF/ASE task list for A5 and will prepare the student to take the Automotive Service Excellence (ASE) exams. Classroom time is divided between lecture, discussion, and individual learning activities.

AUT 155 Brakes II (4)

Brakes II apply the knowledge and hands-on skills acquired in AUT150 (Brakes I). It includes testing troubleshooting, diagnosing, disassembling, and replacing both automotive drum and disc brake systems using manufacturer's specifications, four-wheel and rear wheel anti-lock braking system components, operations, and repairs will also be covered. Prerequisite: AUT150

AUT 161 Electrical I (3)

In this course students will complete service work orders; describe the relationship between voltage, ohms and amperage; perform basic electrical circuit repairs; identify electrical system faults; identify basic wiring diagram symbols, components, and legend information; perform basic electrical circuit measurements using a DVOM; describe basic circuit characteristics of series, parallel and series parallel circuits through a variety of classroom and shop learning assessment activities.

AUT 162 Electricity/Electronics I (2)

Electrical & Electronic Systems I builds on the skills developed in Electrical I. This course emphasizes battery design, starter systems, and the charging system and its components. In addition to these systems, hybrid technology will be explored. Class time is divided between the classroom and lab experiences. Classroom is primarily lecture, discussion, and group or individual learning activities that emphasize troubleshooting and problem-solving skill development.

AUT 165 Engine Mechanical Diagnosis (2)

Engine Mechanical Diagnosis involves diagnostic theory, process, and testing as well as practicing major component replacement. Students will split their time between the classroom and lab.

AUT 170 Heating - Air Conditioning I (2)

Heating & Air Conditioning I is an introductory course that is designed to provide the student with a solid foundation in automotive heating and air conditioning. Class time is divided between the classroom and lab experiences. Classroom time is spent primarily on lecture, discussion, and group or individual learning activities that provide a foundation to encourage troubleshooting skill development.

AUT 181 Engine Performance I (3)

In this learning plan students will complete work order and check history; identify engine mechanical integrity; explore the fundamentals of fuel system theory; identify fuel system concerns; explore the fundamentals of ignition theory; identify ignition system concerns; identify induction system concerns; identify exhaust system concerns; identify engine mechanical integrity through a variety of learning and assessment activities.

AUT 182 Engine Performance II (3)

Engine Performance II builds on the knowledge and skills developed in Engine Performance I. The course continues the study of theory and of power train diagnostics. Students will learn the rudiment of computerized engine controls, ignition systems, fuel, air induction, and exhaust and emission control systems. The course provides extensive hands-on training on the use of the latest diagnostic equipment and tools.

AUT 205 Auto Transmission/Transaxle I (2)

Automatic Transmission/Transaxle I is a basic introduction to automatic transmissions/transaxle systems. The course includes an introduction to hydraulic principles, an introduction to the different types of automatic transmission fluids, automotive measurement, and the identification to the parts of the automatic transmission including planetary gear sets, brake bands, bearings, pumps, boost systems, and valve bodies. It also contains some basic services performed on an automatic transmission including oil filter replacement, air testing of clutch packs, removing and refitting a transaxle and/or transmission. Students will receive instruction that will assist them in taking the Automotive Service Excellence (ASE) Exams after successfully completing the requirements of the 1st and 2nd levels of the automotive technology program.

AUT 215 Auto Transmission/Transaxle II (2)

Automatic Transmission & Transaxles II is the advanced application of knowledge and hands-on skills acquired in Automatic Trans & Transaxles I. The course includes testing, troubleshooting and diagnosing, disassembly, inspection, and assembly of automatic transmissions and transaxles according to manufacturer's specifications. Electronically controlled automatic transmission components and operation are covered along with diagnosing and repair. Students will receive instruction that will assist them in taking the Automotive Service Excellence (ASE) exams after successfully completing the requirements of the 1st and 2nd levels of the automotive technology program.

AUT 230 Manual Transmission II (2)

Manual Drive Train and Axles II contains the advanced application of knowledge and hands on skills acquired in Manual Drive Train & Axles I. Emphasis will be on testing, troubleshooting and diagnosing, disassembling, inspecting and assembling transmissions and trans axles according to manufacturer's specifications. Students will receive instruction that will assist them in taking the automotive excellence (ASE) exams after successfully completing the requirements of the 1st and 2nd levels of the automotive technology program.

AUT 260 Electricity/Electronics II (6)

Electricity/Electronic Systems II is an advanced level course and builds on the knowledge, skills and abilities mastered in Electricity/Electronic Systems I. This class involves the theory and application of automotive electronic circuits and accessories. It includes the construction and servicing of lighting systems, gauges, warning devices, windshield wipers, and solid state devices. The course provides the knowledge to prepare for the Automotive Service Excellence (ASE) Exams. The course is aligned closely with the NATEF/ASE task list for A6 Electrical/Electronic Systems.

AUT 270 Heating - Air Conditioning II (2)

Heating and Air Conditioning II is an advanced level course and builds on the knowledge, skills and abilities mastered in AUT170 Heating & Air Conditioning I. Climate control systems are explained in-depth including theory of refrigeration, servicing procedures, and diagnosis techniques. Compressor service and distribution systems are studied. Laboratory experience is given in testing and servicing a variety of systems and problems. The course provides the knowledge to prepare for the Automotive Service Excellence (ASE) exams. The course is aligned closely with the NATEF/ASE task list for A7 Heating & Air Conditioning.

AUT 281 Engine Performance III (5)

Engine Performance III is an advanced level course and builds on the knowledge, skills, and abilities mastered in Engine Performance I (AUT181) and Engine Performance II (AUT182). This class involves theory and application of automotive engine diagnostics including computerized engine controls, ignition systems, fuel, air induction and exhaust systems, emission control systems, and exhaust gas treatments. The course provides extensive hands-on training on the use of the latest diagnostic equipment and tools. The class provides the knowledge to prepare for the Automotive Service Excellence (ASE) exams. The course is closely aligned with the NATEF/ASE task list for A8 Engine Performance.

Biology (BI)

BI 100 Introduction to Biology (3)

An introduction to the major principles and theories of Biology: genes, evolution, cell biology, and the structure and function of the major kingdoms of life. Two sections of special academic interest include Health Emphasis and General Education Emphasis both of which qualify as General Education Courses. Not applicable toward credit for biology major requirements. Two or three lectures a week. Prerequisite: None. **(General Ed Natural Science. Critical and Creative Thinking.)**

BI 101 Introductory Biology Laboratory (2)

Introductory laboratory with activities that examine the structure and function of organisms. Supplementary to BI 100. Not applicable toward credit for biology major requirements. One three-hour laboratory period per week. Prerequisite: BI 100 with a grade of C or better, or concurrent enrollment. Concurrently enrolled students may not drop BI 100 and remain enrolled in BI 101.

(General Ed Natural Science. Quan and Sci Reason Lit.)

BI 102 General Cellular Biology (5)

The organization and activities of organisms at the cellular level. Analysis of the chemical, genetic, and microscopic properties shared by all cells. This is the beginning biology course for the student who wishes to major in biology. Four lectures and one three-hour laboratory period a week. Prerequisite: None.

(General Ed Natural Science. Critical and Creative Thinking.)

BI 103 General Organismal Biology (5)

An introduction to the basic principles of organismal biology with an emphasis on plants and animals. Topics covered will include general ecology and evolution, anatomy and physiology, and organismal diversity. Four lectures and one three-hour laboratory period a week. Prerequisite: BI 102 with a grade of C or better.

BI 110 General Zoology (4)

The organ systems, taxonomy, and evolution of animals. Biological principles as found in the animal kingdom. Three lectures and one three-hour laboratory period a week. Prerequisite: BI 102.

BI 140 Introduction to Forensic Biology (3)

An introduction to the collection, processing and testing of biological evidence during forensic investigations. Topics include: the use of biological samples in crime scene investigation, molecular biology techniques used to detect biological samples and evaluating the strength of DNA profiling. Prerequisites: None.

(General Ed Natural Science. Critical and Creative Thinking.)

BI 150 Evolution (3)

Designed for non-science majors who want a basic explanation of evolution, how it works and its impact on scientific thinking and society. The course will include discussion of simple genetics, origins of life, geologic eras and scientific creationism. Prerequisite: None.

(General Ed Natural Science. Quan and Sci Reason Lit.)

BI 155 Sexually Transmitted Disease (1)

An overview of diseases, which rely on sexual interactions for transmission, e.g., AIDS, syphilis, herpes, and others. The history, epidemiology, clinical nature, treatment and prevention of these diseases are discussed. Prerequisite: None.

BI 180 Special Topics/Biology (1-3)

Selected topics of general interest. Not applicable toward credit for biology major requirements. Prerequisite: None.

BI 202 Biology of Behavior (3)

Biological aspects of human & animal behavior, including sociobiology, ethology, behavioral genetics & evolution, heredity vs. environment, male-female differences, & the neurological & hormonal basis of behavior.

Prerequisites: None.

(General Ed Natural Science. Quan and Sci Reason Lit.)

BI 203 Human Impact on the Environment (3)

The structure and function of a natural environment and the impact of humans on that environment. Topics include population and food, various pollution problems, energy problems, and possible solutions. Not applicable toward credit for biology major requirements. Prerequisite: None.

(General Ed Natural Science. Global Citizenship Ethics Div.)

BI 206 Introductory Microbiology (4)

The basic characteristics of microbes and an analysis of their effects on humans. Emphasis on human medical microbiology. Basic microbiological techniques, with an emphasis on those used in medicine. Developed primarily for students majoring in nursing. Not applicable toward credit for biology major requirements. Three lectures and one three-hour laboratory per week. Prerequisites: A grade of "C" or better in BI 100 (Health Emphasis preferred) and BI 101 or BI 102.

BI 230 Introduction to Human Physiology (3)

This human physiology course is designed for those needing a basic background in physiology principles without the additional functional knowledge that is obtained in the laboratory setting. The emphasis of this course will include learning basic relationships and necessary language to be able to understand the terminology that may be used in fields that are in the periphery of physiology. Prerequisite: A grade of "C" or better in BI 100 (Health Emphasis preferred).

BI 234 Introduction to Biotechnology (3)

The purpose of this course is to introduce and explore the scientific basis of a broad range of topics in the emerging areas of biotechnology involving microbes, plants, and animals, and to understand the impact of biotechnology on society. Additional topics include: history, development, current operations, future advances, industry structure, and career opportunities within the biotechnology industry. Pre-requisite: BI 102 with a grade of C or better.

BI 250 Introduction to Human Anatomy (3)

The structure of the human body, with emphasis on skeletal and muscular systems. Three lectures a week. Prerequisite: A grade of "C" or better in BI 100 or BI 102.

BI 255 Human Physiology (4)

The basic functions of human organ systems. Three lectures and one three-hour laboratory period a week. Prerequisites: A grade of "C" or better in BI 100 (Health Emphasis preferred) and BI 101 or BI 102.

BI 260 Biology of Aging (3)

Mechanisms of aging processes with special reference to human gerontology. Unfavorable progressive changes in molecules, cells, systems, and organisms will be examined. Prerequisite: A grade of "C" or better in BI 100 (Health Emphasis preferred).

BI 275 Human Anatomy (4)

Designed primarily for students majoring in biology, nursing or physical therapy. Lectures survey the organ systems with emphasis on skeletal, muscular, nervous, circulatory and reproductive systems. Laboratory exercises include both animal and human cadaver dissection. Two lectures and two two-hour laboratory periods per week. Prerequisites: A grade of "C" or better in BI 100 (Health Emphasis preferred) and BI 101 or BI 102. NOTE: Pregnant women should consult with physician and instructor prior to enrollment due to specimen preservatives used in this course.

BI 280 Special Topics/Biology (1-3)

Selected topics of general interest. Prerequisite: One or more general biology course(s).

BI 300 Field Biology (3)

Identification and study of plants and animals in the field, including their ecology. Prerequisite: BI 103 with a grade of C or better.

BI 301 General Microbiology (4)

Characteristics of microorganisms with major emphasis on bacteria and viruses. Principle roles of microorganisms in our environment. Laboratory introduces basic techniques used in microbiological studies. Three lectures and one three-hour laboratory period a week. Prerequisites: BI 103 with a grade of C or better, and CH 151.

BI 302 Entomology (4)

Designed to cover the general aspects of the anatomy, physiology, taxonomy, and behavior of insects. Field trips will be an integral part of this course. Three lectures and one three-hour laboratory period a week. Prerequisite: BI 103 with a grade of C or better.

BI 303 Invertebrate Zoology (4)

The invertebrate groups with emphasis on basic zoological principles. Field trips are an integral part of this course. Three lectures and one three-hour laboratory period a week. Prerequisite: BI 103 with a grade of C or better.

BI 305 Parasitology (4)

Protozoan, helminth, and arthropod parasites of humans. Three lectures and one three-hour laboratory period a week. Prerequisite: BI 103 with a grade of C or better.

BI 310 Ecology (4)

Examines the interactions between organisms, their environment, and their evolution; major topics include global ecology, physical ecology, community ecology, species interactions, and biodiversity. Three lectures and one three-hour laboratory period a week. Prerequisite: BI 103 with a grade of C or better.

BI 314 Statistics for Biologists (3)

A course designed as an overview of statistical procedures common in biological research emphasizing their biological relevance and interpretation. Lectures will cover data presentation, parameter estimation, hypothesis testing, goodness of fit, analysis of variance, regression, and a brief introduction to modern methods of analysis. Labs will cover the practical implementation of statistical analyses using the statistical package R. Prerequisite: BI 102 and MA 116 with grades of C or better. Recommended: MA 140 with a grade of C or better

BI 315 Vertebrate Zoology (4)

A taxonomic approach to the study of vertebrate animals. Phylogeny, ecology and behavior will be discussed, as will general structure and function relating to phylogeny. The laboratory will include several field trips. Three lectures and one three-hour laboratory period a week. Prerequisite: BI 103 with a grade of C or better.

BI 319 Biology for STEM Educators (3)

An exploration of the core concepts and principles that unite the major disciplines of the Biological Sciences. The impacts that each of these concepts have on society will be discussed. Special emphasis will be placed on developing lesson and models that effectively communicate complex ideas to a range of ages and audiences. Prerequisite: A grade of "C" or better in either BI 100 and BI 101 or BI 102, and Junior standing.

BI 322 Advanced General Botany (4)

A survey of the anatomy, physiology, and diversity of plants. Evolutionary development, ecology, and applied botany will be discussed. The laboratory will include both field-based and laboratory-based experiments. Three lectures and one three-hour laboratory period a week. Prerequisite: A grade of "C" or better in BI 103

BI 324 Systematic Botany (3)

Exploration of the flowering plants of Kansas and their habitats. Major principles of systematics are covered. Two three-hour class periods per week, and nearly all periods are devoted to field trips to local areas of interest. Prerequisite: BI 103 with a grade of C or better.

BI 325 Microbiology of Human Disease (5)

Basic principles involved in pathogenesis of human disease, host resistance, and epidemiology. Characteristics and laboratory diagnosis of major bacterial pathogens. Three lectures and two two-hour laboratory periods a week. Prerequisite: BI 301.

BI 328 Plant Anatomy and Physiology (3)

Examines the anatomy and physiology of the stems, roots, leaves and reproductive organs of plants, from the molecular to the organismal levels. Prerequisite: BI 103 with a grade of C or better.

BI 330 Animal Physiology (4)

A comparative study of the basic physiological processes occurring throughout the animal kingdom. Three lectures and one three-hour laboratory period a week. Prerequisites: BI 103 with a grade of C or better, and CH 152.

BI 333 General Genetics (4)

A course designed to cover basic genetic principles, including Mendelian Genetics, cytogenetics, population genetics and an introduction to molecular genetics. Laboratory experiments will be used to illustrate the genetic principles covered in lecture. Three lectures and one three-hour laboratory period per week. Prerequisites: BI 103 with a grade of C or better, and CH 151.

BI 340 Evolutionary Biology (3)

The basic ideas of evolutionary biology will include classical Darwinian evolution, and modern analyses of evolutionary theory. Specific topics covered are natural selection, sources of variation, origin of life, paleobiology, speciation, sociobiology and human evolution. Course will also include the historical development of evolutionary ideas as well as a discussion of the impact of evolution on societal issues. Three lectures a week. Prerequisite: BI 103 with a grade of C or better, or consent of instructor.

BI 343 Human Genetics (3)

Classical and molecular mechanisms of inheritance in individuals, families, and populations. Topics include genetics of behavior, outcomes of gene and chromosomal mutations, cancer genetics, genetic counseling, personalized genomics, and issues and applications of current gene and reproductive technologies. Prerequisites: BI 333 with a grade of C or better, or consent of instructor.

BI 353 Molecular Genetics (3)

The molecular basis of genetic systems including chromosomal and extrachromosomal elements. Topics include manipulation of DNA, molecular techniques, cloning, methods for the study of gene expression, mutability of DNA, plasmid systems, prokaryotic and eukaryotic genomes, and practical aspects of biotechnology. Three lectures a week. Prerequisite: BI 301 or BI 333.

BI 354 Molecular Biology Laboratory (3)

A laboratory course designed to introduce the student to modern molecular biology techniques, including recombinant DNA technology (gene cloning), DNA sequence analysis, PCR, Southern hybridization, bioinformatics, and more. This course is designed to mimic a real-world research experience. Two periods totaling 5 hours per week to include one hour for lecture/discussion. Prerequisite: BI 301 or BI 333 or BI 353 or consent of instructor.

BI 355 Developmental Biology (5)

Topics in modern developmental biology will be covered in lecture and through readings so as to gain a working knowledge of the analyses of developmental processes such as fertilization, embryonic cleavage, cell determination and cell differentiation in selected species. Emphasis will be on experiments that reveal how these processes are controlled at the molecular and cellular levels. Three lectures and two two-hour laboratory periods a week. Prerequisite: BI 333 with a grade of C or better.

BI 357 Histology (4)

Fundamental tissues and microscopic examination of vertebrate organs. Two lectures and two two-hour laboratory periods a week. Prerequisite: BI 103 with a grade of C or better.

BI 360 Human Cadaver Dissection (3)

This course is intended to give students who aspire to go to medical school, dental school or post graduate human anatomy programs a chance to gain experience dissecting and learning human cadaveric anatomy. This is a five week summer course that covers the dissection of the entire human cadaver. Focus of dissection is primarily on muscle and joint anatomy, but includes thoracic and abdominopelvic organs along with vascular dissection and identification. Student evaluation is based on participation and dissection skills. Prerequisites: BI 103 with a grade of C or better, or BI 275, and instructor consent.

BI 362 Immunology (3)

Molecular and cell biology of specific and nonspecific immune responses in mammals, with special emphasis on human immune systems. Reviews experimental support for current immunological theories. Roles of immunology in human health and disease. Three lectures a week. Prerequisite: BI 301 and BI 333 or BI 353 or CH 350.

BI 363 Immunology Laboratory (2)

Laboratory course designed to introduce students to current clinical & research procedures in immunology. Includes techniques utilized in biological & biochemical research as well as medical applications. Prerequisite: BI 362 with a grade of C or better, or concurrent enrollment.

BI 370 Virology (3)

The structure and properties of animal viruses. Molecular aspects of virus replication and the role of viruses in disease states. Three lectures a week. Prerequisite: BI 301.

BI 380 Special Topics/Biology (1-3)

A consideration of various emerging or advanced specialty areas in biology, offered according to student and staff availability. Prerequisites: BI 103 with a grade of C or better, and consent of instructor (Additional prerequisites might be needed depending upon particular topic).

BI 389 Biology Literature Review (2)

Students will learn to critically read and analyze primary biology literature in at least four of the five core biology disciplines: cell biology, botany, zoology, microbiology and genetics. It is designed for students who have not yet taken Biology Seminar (BI 390). Students will orally present the data from these papers to the class and complete a series of worksheets on the content of the literature. Students will also learn the basics of a thorough, scientific literature search online and the mechanics of writing a scientific abstract. Two lectures a week. Prerequisite: BI 103 with a grade of C or better, and one other biology core course, plus consent of instructor.

BI 390 Biology Seminar (1)

Organization and oral presentations of the results of current research in the biological sciences. Utilization of recent journal literature, abstracting techniques, and oral communication of scientific data will be emphasized. One semester is required of all majors. Up to three credit hours may be applied toward meeting departmental or university graduation requirements. Prerequisites: 15 hours of BI and Jr. standing.

BI 395 Research in Biology (1-3)

This course is the capstone course in the Biology degree, and open only to declared majors at Washburn University. Independent, undergraduate research on some special problem in biology, the field to be chosen by the student in conference with the instructor. Open only to students, from any discipline, with at least fifteen hours of credit derived from core majors' courses in Biology. At least one semester is required of every Biology major. A maximum of six credit hours of research may be taken by any student, and no more than 3 credits in one semester. Prerequisite: Consent of instructor.

BI 420 Forensic Molecular Biology (4)

This course will thoroughly cover the theory behind the molecular biology used in forensic DNA analysis as well as the practical considerations pertaining to the forensic lab environment. Through simulated examples of real-life sample types, students will learn and gain experience with techniques and equipment currently used in the forensic biology field. Three lectures and one three-hour laboratory period per week. Prerequisites: A grade of C or better in BI 333, CH 340, and CH 342 or consent of instructor.

BI 440 Biotechnology Internship (3)

Experience and training in an approved biotechnology or related industry laboratory, or academic research laboratory. Prerequisites: 27 credit hours of biology, 15 credit hours of chemistry, and Instructor approval.

BI 448 Zoo Internship (3)

Field experience and training at an AZA accredited Zoo. Students can specialize in either an education, animal, or horticulture tract. Prerequisite: A grade of C or better in BI 102 and BI 103, Junior Standing, and/or consent of instructor.

Building Technology (BDT)

BDT 117 Carpentry I (4)

The intent of this course is to teach the students the history of the construction trade, building materials, different fasteners and adhesives, hand and power tools and reading plans and elevations. It also describes the apprentice program and career opportunities. The course will follow the NCCER modules for: Orientation to the Trade, Building Materials, Fasteners and Adhesives, Hand and Power Tools, and Reading Plans and Elevations.

BDT 119 Carpentry Basics (4)

The intent of this course is to teach the students the history of the construction trade, building materials, different fasteners and adhesives, hand and power tools and reading plans and elevations. It also describes the apprentice program and career opportunities. The course will follow the NCCER modules for: Orientation to the Trade, Building Materials, Fasteners and Adhesives, Hand and Power Tools, and Reading Plans and Elevations.

BDT 122 Floors, Walls & Ceiling Frames (4)

This course will cover lay out and erecting floor and wall and ceiling sections. The emphasis for this course is the understanding of precise layout of studs, sills, floor joist, and ceiling members. The student will learn how to layout partitions, door, and window openings. The student will perform the entire layout mentioned above, and know the correct symbols and names of all wall, floor, and ceiling components. The student will be introduced to the different methods used for framing buildings and floor framing with an emphasis on the platform, Balloon and post and beam framing method. The tools and materials used for this type of construction will be covered. The course will follow the NCCER modules for: Floor Systems, Wall and Ceiling Framing, and Introduction to Concrete, Reinforcing Materials and Forms.

BDT 127 Windows, Doors & Stairs (3)

This course will introduce the student to methods and procedures used in the selection and installation of residential windows, doors, and stairs. Students will learn the proper components of windows and doors along with basic stair layout. This course will follow the NCCER modules for Windows and Exterior doors and Basic Stair Layout.

BDT 132 Drywall (3)

The course introduces the student to the materials and techniques used in building and finishing residential and commercial buildings, including wood and steel framed structures. The course describes the various types of gypsum drywall, their uses, and the fastening devices and methods used to install them. The materials, tools and methods used to finish, and patch gypsum drywall are also covered.

BDT 136 NCCER Plumbing Level 1 Part 1 (4)

This course features a highly illustrated design, technical hints and tips from industry experts, review questions and a whole lot more! Key content includes: Introduction to the Plumbing Profession, Plumbing Safety, Tools of the Plumbing Trade, Introduction to Plumbing Math, Introduction to Plumbing Drawings, Plastic Pipe and Fittings, Copper Pipe and Fittings, Cast-Iron Pipe and Fittings.

BDT 137 Roof Framing (3)

Students will learn the different types of roofs used in residential and commercial construction. This course is the most demanding of the framing tasks. Unlike floor and wall construction that involve working with straight lines, roofs are sloped requiring the framer to understand and calculate precise angles. The student will learn the names of all the roof parts and how to calculate the angles to achieve a properly constructed roof. This course will follow the NCCER modules for roof framing.

BDT 138 NCCER Plumbing Level 1 Part 2 (4)

This course features a highly illustrated design, technical hints and tips from industry experts, review questions and a whole lot more! Key content includes: Introduction to the Cast-Iron Pipe and Fittings, Carbon Steel Pipe and Fittings, Introduction to Plumbing Fixtures, Introduction to Drain, Waste, and Vent (DWV) Systems, and Introduction to Water Distribution Systems.

BDT 142 Masonry (3)

This course introduces the student to the fundamentals of masonry/concrete work. The student will have the opportunity to gain practical knowledge of masonry as a trade, develop skills in the use of the tools, equipment, materials, and techniques used in construction.

BDT 156 NCCER Plumbing Level 2 Part 1 (4)

This course features a highly illustrated design, technical hints and tips from industry experts, review questions and a whole lot more! Key content includes: Plumbing Math Two, Reading Commercial Drawings, Structural Penetrations, Insulation, and Fire Stopping, Installing and Testing DWV Piping.

BDT 158 NCCER Plumbing Level 2 Part 2 (4)

This course features a highly illustrated design, technical hints and tips from industry experts, review questions and a whole lot more! Key content includes: Installing Roof, Floor, and Area Drains, Installing and Testing Water Supply Piping, Types of Valves, Installing Fixtures and Valves, Installing Water Heaters, Basic Electricity, and Fuel Gas and Fuel Oil Systems.

BDT 212 Carpentry II (4)

Students will learn the techniques of framing and finishing. The students will have the opportunity to become familiar with roofing application, thermal and moisture protection, exterior finishing, commercial drawings, and cold-formed steel framing. This will follow the NCCER modules for Carpentry Level Two.

BDT 217 Construction Electricity (3)

This course introduces the students to the electrical field. It also provides the student with an opportunity to understand the connection between the two construction fields. The student will be introduced to series, parallel, series-parallel circuits, hardware and systems used by electricians. It also provides a navigational road map for use of the National Electrical Code.

BDT 222 Plumbing (4)

The course will familiarize the student with the terminology and basic plumbing principles used in the plumbing profession. A variety of topics will be present such as safety, tools, drawings, fittings, fixtures, and faucets. This course will follow the NCCER modules for Plumbing Level One.

BDT 236 NCCER Plumbing Level 3 Part 1 (4)

This course features a highly illustrated design, technical hints and tips from industry experts, review questions and a whole lot more! Key content includes: Applied Math, Sizing Water Supply Piping, Potable Water Treatment, Backflow Preventers, Types of Venting.

BDT 238 NCCER Plumbing Level 3 Part 2 (4)

This course features a highly illustrated design, technical hints and tips from industry experts, review questions and a whole lot more! Key content includes: Sizing DWV and Storm Systems, Sewage Pumps and Sump Pumps, Corrosive-Resistant Waste Piping, and Compressed Air.

BDT 256 NCCER Plumbing Level 4 Part 1 (4)

This course features a highly illustrated design, technical hints and tips from industry experts, review questions and a whole lot more! Key content includes: Business Principles for Plumbers, Introductory Skills for the Crew Leader, Water Pressure Booster and Recirculation Systems, Indirect and Special Waste.

BDT 258 NCCER Plumbing Level 4 Part 2 (4)

This course features a highly illustrated design, technical hints and tips from industry experts, review questions and a whole lot more! Key content includes: Hydronic and Solar Heating Systems, Codes, Servicing Piping Systems - Fixtures and Appliances, Private Water Supply Well Systems, Private Waste Disposal Systems, Swimming Pools and Hot Tubs, and Plumbing for Mobile Homes and Travel Trailers.

BDT 270 Construction OJT (6)

This course features a hands-on method of teaching the skills, knowledge, and competencies needed for employees to perform in the field of construction work. Students learn in an environment where they will need to practice the knowledge and skills obtained during their training.

BDT 280 Building Tech OJT (4)

This course features a hands-on method of teaching the skills, knowledge, and competencies needed for employees to perform in the field of building technology work. Students learn in an environment where they will need to practice the knowledge and skills obtained during their training.

BDT 290 Carpentry OJT (6)

This course features a hands-on method of teaching the skills, knowledge, and competencies needed for employees to perform in the field of carpentry. Students learn in an environment where they will need to practice the knowledge and skills obtained during their training.

Business (BU)

BU 101 Introduction to Business (3)

Designed to introduce the student to the American business system and to analysis of business organization and operation.

BU 115 Entrepreneurship and Entrepreneurship Law (3)

Assists aspiring business owners and managers in recognizing issues relevant to starting-up, maintaining, and growing a company.

BU 180 Personal Finance (3)

Personal and family financial planning. Topics include: consumer legislation, consumer finance, family budgeting, estate planning, insurance, individual income tax, home buying, mortgages, retirement pensions, and investments.

BU 248 Foundations of Data Analysis (3)

Foundational knowledge and technology to perform fundamental data analysis supporting problem solving and evidence based decision making. Through hands-on experiences, students will identify, extract, prepare, and analyze data and communicate those results that inform decisions. Prerequisite: EN 101 and MA 116 (recommended) or MA 112.

BU 250 Management Information Systems (3)

Concepts of information systems; analysis, evaluation, and implementation of management information systems; data-base management; information systems and management. (Assumes intermediate knowledge of MS Office applications, including Excel spreadsheets.) Prerequisites: CM 101 or consent, EN 101, and MA 116 (recommended) or MA 112.

BU 259 The Business of Art (3)

Explores and analyzes approaches to art valuation, art appraisal, and entrepreneurship in the arts. Examines the art market, the art consumer, and the value of art. Business problems and opportunities in the world of art are identified, analyzed, and assessed. Prerequisite: MA 112.

BU 260 Business Plan Development (3)

Through application of an entrepreneurial framework, learn to evaluate opportunities and develop a business concept to determine feasibility and access funding. Gain confidence to use entrepreneurial thinking and action with future opportunities.

BU 302 Business Communications (3)

Written communications including simpler types of business messages. Emphasis is placed on positive planning for effective human relations through management messages. Prerequisites: EN 101 with grade of "C" or better, CM 101, or equivalent, CN 150 or CN 365, or equivalent.

BU 305 Contemporary Information Systems (3)

Enterprise Resource Planning (ERP) computer systems. Understanding of business processes and their relation to Integrated Information Systems. Advanced Computer Modeling. Prerequisites: BU 250 and AC 225.

BU 309 Business Data Communication and Networking (3)

Understanding of the technical and managerial aspects of business data communications and networking to support business processes. Prerequisites: BU 250, AC 225, EC 200, and EC 201.

BU 315 Legal Environment of Business (3)

Legal process, nature, and sources of the law, government regulation and administrative law as they affect business. Prerequisites: EC 200, EC 201, and 2.0 GPA.

BU 319 Labor Law & Legislation (3)

The statutory, judicial and administrative law pertaining to labor-management relations. Prerequisites: EC 200 and EC 201.

BU 342 Organization & Management (3)

Management theory and practice, including fundamentals of management; making things happen; meeting the competition; organizing people, projects, and processes; and motivating and leading. Emphasis is given to the development of management, organizational structures, organizational dynamics, the impact of environmental forces and use of analytical tools in the performance of the management function. Prerequisites: EC 200, EC 201; two out of three of the following: AN 112, PY 100, and SO 100; and 2.0 GPA.

BU 343 Entrepreneurship, Creativity, and Innovation (3)

Provides students with an overall understanding of the entrepreneurship process. Specifically explores the dimensions of creativity and innovation, and how these can aid firm growth. Explores the scope of entrepreneurship as new venture development and examines entrepreneurship as a manageable process that can be applied in any organizational setting. Exposes students to a mix of theory and practice which is applied to real world situations. Prerequisites: BU 260, or EC 200, EC 201, and BU 342 (or concurrent).

BU 345 Human Resources Management (3)

The principles and practices of sound employee relations with emphasis upon the selection, development and morale of employees. Prerequisites: EC 200 and EC 201.

BU 346 Organizational Behavior (3)

Review of theory and research related to work behavior in organizations with focus on individual and group behavior. Prerequisites: PY 100 or SO 100.

BU 347 Production and Operations Management (3)

Operations management in both manufacturing and service organizations. Use of models to make operations management decisions in the areas of productivity, quality, customer service, and production and process strategy. Prerequisites: BU 250, BU 342, EC 211 (or MA 343), AC 225, MA 141, and 2.0 GPA.

BU 355 International Business (3)

The global economic and political environment in which international trade and investment activities as conducted by multinational and national business organizations. Examination of the international dimensions of the areas of finance, management, marketing, operations, and business strategy. Prerequisites: AC 225 or BU 101, EC 200 and EC 201.

BU 356 Cross-Cultural Management (3)

Critical assessment of practices in managing a culturally diverse workforce. Applications of culture to ethics and values across the globe, communication, motivation, dispute resolution, and human resource management. Prerequisite: BU 342 (or concurrent).

BU 360 Principles of Marketing (3)

Marketing concepts and their relevance to organizational objectives and methods of operation. Marketing environment, marketing mix, marketing planning, strategy implementation, and assessment of marketing performance. Emphasis on improving marketing performance in a socially and ethically responsible manner. Prerequisites: EC 200, EC 201, and 2.0 GPA.

BU 361 Principles of Retailing (3)

Structural organization for retailing and the functional activities involved. Principles of site selection, staffing, planning, pricing, buying merchandise, sales promotion and expense management are included. Prerequisite: BU 360.

BU 362 Marketing Research (3)

Techniques by which industries and individual firms seek to coordinate buying with consumer demand. Application of research techniques to various marketing problems. Prerequisites: BU 360 and EC 211 (or MA 343).

BU 363 Promotion (3)

Examination of the promotion function of the marketing mix. Topics include: promotion strategy; management of the promotion mix (advertising, sales promotion, public relations); media strategy; and evaluation. Prerequisite: BU 360.

BU 364 Consumer Behavior (3)

The behavior of buyers of goods and services. An examination will be made of theories, concepts, methods and research findings of other disciplines and a study of the relation of these findings to management decision making. Industrial and consumer buying behavior will be considered within the context of the course. Prerequisite: BU 360.

BU 366 Sales (3)

A detailed examination of the selling dimension of the promotion mix. Topics include: personal communication; personal selling; relationship-building; and sales strategy and management. Prerequisite: BU 360.

BU 368 International Marketing (3)

Analysis of marketing management problems, techniques and strategies in international marketing, emphasizing changes in competition and market structure abroad.

BU 369 Entrepreneurial Marketing (3)

Framework to identify, create, and implement innovative marketing techniques for new ventures and small businesses in a resource-constrained environment. Creative strategies for the start-up phase for new products and services or in new markets and also applicable in large organizations. Prerequisite: BU 360.

BU 370 Entrepreneurship Clinic (3)

The capstone of the entrepreneurship program. Key building blocks: in class debate, field cases, redefinition and development of business ideas moderated by instructors. Students will be expected to work for and with entrepreneurs and develop business models that can be implemented. They will present a working model by the completion of the course. Successful entrepreneurs will participate as speakers/moderators and mentors for the participating students. Prerequisites: BU 343 or Admission to the School of Business.

BU 371 Digital Marketing (3)

Examines how digital technologies can be employed to enhance and implement the marketing function. Provides an overview of the concepts defining the digital environment and examines the concepts and techniques that characterize marketing in the digital environment. Prerequisite: BU 360.

BU 374 Principles of Risk and Insurance (3)

The study of risk and insurance, dealing with the principal risks to which individuals are exposed, and the various means of dealing with risk, including insurance, risk retention, self-insurance, and loss prevention. Examines the responsibilities and activities for treating risk at three levels: personal and family, employer, and government.

BU 375 Property and Liability Insurance (3)

An advanced insurance course of current financial, legal and social problems involving property-liability insurance; analysis of legal problems involving insurance coverage, financial aspects, and governmental regulation of the property-liability insurance enterprise, and economic aspects of the insurance industry. Prerequisite: BU 374.

BU 378 Life and Health Insurance (3)

The problems of and the alternative techniques for the insuring of health and human life values from the differing viewpoints of the company, the economy, and the consumer. Among the topics covered are health and financial needs in the life cycle of the family, settlement options and the programming elements of business insurance, estate planning, probability theory mortality, rating and reserves, and the recent changes in the health insurance industry. Prerequisite: BU 374.

BU 381 Business Finance (3)

Theory and techniques of financial management, designed to provide the basic financial background needed by students in business, economics, or related fields. Topics include: capital budgeting, capital structure, dividend policy, the cost of capital, and working capital management. Prerequisites: AC 224, AC 225, BU 250, MA 141, EC 211 (or MA 343), and 2.0 GPA.

BU 387 Credit Management (3)

Principles and procedures involved in mercantile and consumer credit. The organization and operation of a credit department, source of credit information, and collection procedure and policies. Prerequisites: EC 200 and EC 201.

BU 389 Entrepreneurial Finance - Small Business (3)

The financial aspects of the management of small business and entrepreneurial firms (sole proprietorships, partnerships, small nonpublic corporations). Prerequisite: BU 381.

BU 390 Principles of Real Estate (3)

A course that surveys the many areas of the real estate business and real estate investment. Financing, appraisal, loan closing, marketing, property management, land description, title transfer and other topics are included in the course.

BU 392 Real Estate Law (3)

Elements of property laws, purchase contracts, listing agreements, estates and trusts. Prerequisite: BU 315.

BU 393 Real Estate Appraisal (3)

An introduction to real estate appraising including the market comparison, cost and income approaches to value with emphasis on house appraisal.

BU 403 Special Topics/Business (3)

Selected topics announced in advanced. May be taken more than one semester. Prerequisite: Admission to the School of Business. Other prerequisites will be specified for each topic.

BU 404 Independent Study-Business (3)

Individual study of a topic in business. Activity must be supervised by a full-time School of Business faculty member with professorial rank. Prerequisites: Admission to the School of Business and consent of directing faculty member prior to enrollment.

BU 405 Honors Research-Business (3)

Restricted to those students seeking to qualify for honors in the major field and designed to provide an intellectual challenge for superior students with a strong interest in scholarship. Course activity must be supervised by a member of the full-time School of Business faculty with professorial rank. Prerequisites: Admission to the School of Business and consent.

BU 406 International Business and Entrepreneurial Experience (3)

First-hand business experience acquired in an international setting. Analysis of business problems, ideas, opportunities, techniques, and strategies in an international context. Emphasizes changes in competition and market structure abroad. Washburn students will work in teams with foreign students to solve a problem for an overseas company. With approval, this course may be taken for credit more than once. Prerequisites: Admission to the School of Business, BU 315, BU 347, BU 381 (or concurrent), and consent.

BU 416 Commercial Transactions (3)

Commercial law in the area of the Uniform Commercial Code, suretyship, insurance, professional responsibilities, etc. Prerequisites: Admission to the School of Business and BU 315.

BU 417 Legal Business Associations (3)

Examination of the law of agency, partnerships, corporations, and security regulations. Prerequisites: Admission to the School of Business and BU 315 recommended.

BU 419 Labor Relations (3)

Labor relations and collective bargaining including the history, structure, and policies of labor organizations. Mediation and arbitration are considered. Prerequisites: Admission to the School of Business and EC 341.

BU 449 Strategic Management (3)

Integrate the functional areas of business in formulating and implementing basic policy for business. Analytical approach to strategic decisions applied to practical examples of problems faced by business firms. May not be taken for graduate credit. Prerequisites: Admission to the School of Business, BU 342, BU 347, BU 360, BU 381, and 2.0 GPA.

BU 457 Multinational Enterprise Practices (3)

Multinational enterprise principles and solutions to meet international accounting and global supply chain business needs. Benefits risks, and costs associated with MNE managers's decisions. Prerequisite: Admission to School of Business, and BU 342 or BU 355.

BU 460 Small Business Institute (3)

Student groups counsel and consult with small business firms selected by the Small Business Administration and the instructor. Field work with the firms provides opportunities to identify and analyze problems, and to make recommendations. Prerequisites: Admission to the School of Business, senior business major, and consent.

BU 461 Small Business Institute (3)

Student groups counsel and consult with small business firms selected by the Small Business Administration and the instructor. Field work with the firms provides opportunities to identify and analyze problems, and to make recommendations. Prerequisites: Admission to the School of Business, senior business major, and consent.

BU 470 Entrepreneurship Clinic (3)

The capstone of the entrepreneurship program. Key building blocks: in class debate, field cases, redefinition and development of business ideas moderated by instructors. Students will be expected to work for and with entrepreneurs and develop business models that can be implemented. They will present a working model by the completion of the course. Successful entrepreneurs will participate as speakers/ moderators and mentors for the participating students. Prerequisites: BU 115, BU 260 and junior status; or EC 201 and CM 335 and junior status; or admission to the School of Business.

BU 471 Marketing Management (3)

Examination of the strategic marketing management process planning, implementation, and control. Topics include: environmental, competitor, and customer analysis; market targeting; the marketing mix; and the international aspects of marketing management. Case analysis and marketing models are used. Prerequisites: Admission to the School of Business and BU 360.

BU 473 Marketing Channels (3)

The distribution function of the marketing mix. Topics include: channel structure and function; strategic channel development; channel management and logistics; direct channels, service channels, franchising, and international distribution channels. Prerequisites: Admission to the School of Business and BU 360.

BU 475 Theory of Insurance (3)

The nature and cost of risk in our economic society, and of the methods of handling it. Prerequisites: Admission to the School of Business and BU 375.

BU 477 International Finance (3)

The financial management of a multinational business enterprise. Develops strategies for investing internationally, including hedging exchange rate risk, adjusting to client preferences and home currencies, evaluating performance, estimating a corporation's exposure to real exchange rate risk, strategies to hedge risk or to dynamically adjust to shocks, and reasons for a corporation to hedge. Also covers international capital budgeting, multinational transfer pricing, and international cash management. Prerequisites: Admission to the School of Business and BU 381, or equivalent (assumes accounting and statistics).

BU 483 Investments (3)

The theory and techniques of financial asset analysis including the fundamental, technical, and efficient market approaches. The course is designed to provide background needed by individuals (regardless of major) to make investment decisions. Topics include: market mechanism, mutual funds, the yield curve, fundamental common stock analysis, and portfolio theory. Prerequisites: Admission to the School of Business and BU 381.

BU 484 Applied Portfolio Management (3)

Provides students with the opportunity to practice investment analysis and portfolio management. Students analyze stocks and other investments. Based on student research, funds provided by the university are allocated to various investments and held in a portfolio that is reviewed and updated in subsequent semesters. Prerequisites: Admission to the School of Business, BU 347 and 483.

BU 488 Financial Management (3)

Specialized skills in corporate financial management are developed through the application of techniques such as the discounted cash flow method, dividend valuation model, capital asset pricing model, and options pricing models. Problem areas covered include working capital management, capital budgeting, and capital structure. Prerequisites: Admission to the School of Business and BU 381.

BU 491 Real Estate Finance (3)

Methods of financing residential, commercial and industrial properties. The nature of mortgage loans for construction and permanent financing and land development. Sources of funds, lender requirements, and loan and investment yield analysis. Secondary mortgage market financing. Prerequisites: Admission to the School of Business and BU 381.

BU 493 Income Property Appraisal (3)

Techniques and methods used in appraising income properties. Prerequisites: Admission to the School of Business and BU 393.

BU 495 Real Estate Investment (3)

Cash flow and investment return analyses are applied to income-producing properties. The most commonly used methods of yield analysis are used in real estate investment case analysis. Financing, appraisal, taxation, and property rights are applied to apartment and office buildings, rental houses, shopping centers, industrial parks, and other types of properties. The capstone real estate course. Prerequisites: Admission to the School of Business.

BU 499 Internship in Business (3)

Professional work experience with a business firm or governmental agency in the following areas of specialization: finance and banking, management, and marketing. The work situation must create a new learning experience for the student. Credit hours may be used only as elective business hours and will not count toward the minimum 63 hours of accounting, business, and economics hours required of the BBA candidate. The grade will be awarded on a pass-fail basis, as determined by the supervising faculty member. Prerequisites: Admission to the School of Business, BU 347, consent of the major area faculty, appropriate academic background, at least seventy-five (75) semester credit hours, at least a 2.5 overall GPA, and meet the general qualifications specified by the sponsoring business firm or governmental agency.

BU 522 Quantitative Methods I (3)

Linear algebra, calculus, spreadsheet use, and compound interest. Prerequisite: College Algebra.

BU 523 Quantitative Methods II (3)

Business statistics, data analysis, quality control statistics, computer stats, computer-based. Prerequisite: BU 522.

BU 526 Survey of Finance (3)

The principles and concepts of corporate finance. Emphasis on developing the ability to understand and analyze financial information as it relates to timing, magnitude, and riskiness of cash flows. Topics include understanding financial statements, time value of money, capital structure, capital budgeting, dividend policy, and the risk vs. return trade-off. Prerequisite: AC 524.

BU 527 Marketing Concepts (3)

Role and importance of marketing in our economy; principles, methods, and problems involved in the management of marketing operations and activities. Prerequisite: EC 525 or consent of instructor.

BU 528 Production and Operations Systems (3)

Management of the production/operations function and service, retailing and manufacturing. Discusses models for strategic, tactical, and operational decisions. Prerequisite: BU 523 and BU 522 recommended, or consent of instructor.

BU 529 Human Behavior in Organizations (3)

Aspects of individual and group behavior as they affect the business environment. Prerequisite: None.

BU 616 Commercial Transactions (3)

Income tax laws, regulations, and procedures pertinent to partnership, corporation, and fiduciary reporting. Prerequisite: Admission to the Master of Accountancy program and BU 315.

BU 630 Entrepreneurship/Creativity (3)

Entrepreneurship as a way of thinking and acting applicable to new ventures in any organizational setting. Explores creativity and innovation as sources of entrepreneurial opportunities and entrepreneurship as a manageable process that can be applied in the private and public sectors. Includes a mix of theory and practice applied to the real world situations and may be co-taught by a practitioner with specific industry experience. Prerequisite: Admission to the Doctor of Nursing Practice program.

BU 653 Product Systems (3)

Management of integrated production and marketing systems. Prerequisite: BU 523, BU 527, and BU 528; BU 522 recommended.

BU 655 Financial Strategies (3)

Analytical skills in corporate financial management are developed. Topics include: security valuation, capital budgeting, capital structure, options, dividends, mergers, and financial ratio analysis. Prerequisite: BU 522, BU 523, and BU 526.

BU 656 Computer-Based Information Systems (3)

Computer-based systems for supporting management decisions. Prerequisite: BU 250, BU 522, and BU 523, or consent.

BU 657 Strategic Marketing Management (3)

An analytical approach to the marketing function of a firm. Development of competitive marketing strategy in a dynamic environment. Prerequisite: AC 524 and BU 527.

BU 658 Managerial Skills/Professional Experiences (3)

Course will be composed of two components. In the first, managerial skills, students will acquire a set of skills to manage and group and individual dynamics in organizations. The second, Professional Experiences, will consist of local and regional CEOs, CIOs, CFOs, and middle managers presenting seminars addressing managerial issues they encounter in their professional lives. The emphasis of these seminars will be the legal and ethical responsibilities of organizations. Prerequisite: Admission to the MBA program.

BU 659 Strategic Analysis (3)

Study of approaches for defining, analyzing, and resolving complex strategic problems facing a profit and not-for-profit organization. Should be taken during the last two semesters of the program and after completion of most of the upper-level required courses.

BU 671 Legal and Ethical Issues (3)

The influence of legal, ethical, political, social, and regulatory issues in organizations. Prerequisite: None.

BU 674 International Business (3)

Study of international business and the multinational corporation. The environment of international business is analyzed, including political and economic factors. Financial, marketing and human resource management in the international context is addressed. Prerequisite: Completion of course-level requirements or consent of instructor.

BU 677 International Financial Strategy (3)

Theory, methods, technique, financial instruments, and practices of international corporate finance. Emphasis is placed on currency risk management, international banking, international trade finance, and international investment. Prerequisites: BU 522, BU 523, and BU 526.

BU 678 International Marketing (3)

The economic, political, legal, and cultural environments that affect a firm's international marketing program. Methods, policies, and organizations for marketing in various countries and cultures. Prerequisite: Admission to the Master of Business Administration program, completion of core requirements, or consent of instructor.

BU 679 Investments (3)

Introduction to theory of investment portfolio evaluation. Topics include: bonds, preferred stock, common stock, puts, calls, and mutual funds. Prerequisites: Completion of core requirements or consent of instructor.

BU 683 Venture Creation (3)

Covers the entrepreneurial process from conception to implementation of a venture. Concentrating on attributes of entrepreneurs and entrepreneurial teams, their search for and assessment of opportunities, and the gathering of resources to convert opportunities into businesses. Students learn how to evaluate entrepreneurs and their plans for new businesses. While the heart of entrepreneurship is opportunity assessment, a holistic approach to venture creation is taken. Students work in teams to write a business plan for a new venture. Prerequisite: Core requirement completion or consent of instructor.

BU 684 Mergers, Acquisitions, Ethics (3)

A study of the theory and techniques pertaining to mergers, acquisitions, and related ethical decision making. Coursework will include analysis and application. Students will analyze successful and failed mergers and related ethical issues. Requirements include student identification and potential merger parties and proposition of a structure and strategy for merger completion and integration. Prerequisite: Completion of foundation level requirements and admission to the MBA program.

BU 685 Business Intelligence Systems (3)

Business intelligence systems combine operational data with analytical tools to present complex and competitive information to planners and decision makers. The objective is to improve the timeliness and quality of inputs to the decision process. Business intelligence is used to understand the capabilities available in the firm; the state of art, trends, and future directions in the markets, the technologies, and the regulatory environment in which the firm competes; and the actions of competitors and the implications of these actions. Prerequisite: Completion of foundation level requirements, BU 656, and admission to the MBA program.

BU 696 Research Project in Business (3)

Individual study of selected problems in business or economics as conducted through extensive reading and research. Approval of project proposal must be obtained before enrolling in the course. Approved project proposals are to be filed with the Director of Graduate Programs. Enrollment by consent of instructor only.

BU 698 Special Topics/Business (3)

Special topics announced in advance. May be taken more than once.

Business Admin Technology (BAT)

BAT 113 Intro Acct and Acct Software (4)

This course develops a foundation for accounting skills and assists students attain an understanding of accounting concepts and the importance of accounting for funds in a business. Students get an introduction to the accounting equation, journal entries, t-accounts, Trial Balances, Financial Statements, adjusting entries, closing entries, and financial statement analysis. Students also use a comprehensive, hands-on training manual for QuickBooks Desktop to learn computer accounting practices through sample companies.

BAT 117 Intro to Acct & Acct Software (4)

This course develops a foundation for accounting skills and assists students attain an understanding of accounting concepts and the importance of accounting for funds in a business. Students get an introduction to the accounting equation, journal entries, t-accounts, Trial Balances, Financial Statements, adjusting entries, closing entries, and financial statement analysis. Students also use a comprehensive, hands-on training manual for QuickBooks Desktop to learn computer accounting practices through sample companies.

BAT 122 Business Communications (4)

A successful and productive member of any office team will write business correspondence, electronic mail and business documents using the correct grammar, style and content. This course is designed to ensure students will have the knowledge to produce effective business communications in written form.

BAT 130 Word Processing (4)

Students will use Microsoft Office Word software to create and edit basic-to-advanced documents, including tables and charts. This is an instructor-guided lab course.

BAT 140 Document Processing (4)

This course continues the development of basic typing skills and emphasizes the formatting of various kinds of business correspondence, reports, tables, electronic forms, and desktop publishing projects from arranged, unarranged, and rough-draft sources.

BAT 172 Spreadsheet Management (4)

This course is designed to familiarize the student with various basic and advanced spreadsheet functions. These include creating and maintaining spreadsheets, displaying information, adding and changing formulas, applying formatting, creating charts and tables, inserting graphics, and customizing the appearance and functions of spreadsheets.

BAT 180 Human Relations (4)

This course is designed for students to learn skills to compete in an increasingly competitive work environment. Skills stressed will be the production of documents and resources needed to obtain employment. Issues addressed will include appropriate communication, conflict resolution, teamwork, accountability, and business ethics.

BAT 200 Business Law (4)

This course provides a basic knowledge of the law and regulations to anyone contemplating a successful career in business. Students will attain knowledge of the nature, concepts and function of the law and the changes technology has brought within the legal system and business law.

BAT 212 Professional Skills & Ethics (4)

Business leaders in our society are faced with daily decisions, involving ethical decisions and professional comportment. Students will learn the basics of negotiation, conflict resolution, and trust building in the office and with clients. Students will demonstrate awareness and effective application of professional skills including teamwork, productivity, and employee retention and client relations. This course introduces students to important elements of moral theory as well as main topics in business ethics, and examines business ethics through case studies.

BAT 215 Database Management (4)

This course covers basic database management skills including creating, maintaining, and editing records, files, and tables and creating queries, forms, and reports. In addition, skills such as modifying database objects, creating advanced types of tables, calculating fields, and importing and exporting data from other software are covered.

BAT 220 Intro Business & Office Mgmt (4)

This course will offer the advanced student knowledge and skills used in business offices, accounting departments and professional firms. The student will learn the necessary skills to manage employees and materials as an office manager. Additionally, the student will become well versed in basic business principals, economic systems, management and organization and management information systems. Additionally, the student will understand business ethics and the importance of good business ethics. Students will gain a general understanding of human resources, marketing, product life cycle, finance and investment.

BAT 252 Payroll Accounting (4)

The course will cover all aspects of payroll accounting and provides an innovative, hands-on approach with unique blend of theory and practical exercises, enabling students to get a thorough understanding of the most widely used payroll accounting functions. This course ends with a comprehensive capstone project. Prerequisites: BAT117

BAT 265 Advanced Accounting Software (4)

This course is a comprehensive survey of QuickBooks Desktop that culminates with sitting for the QuickBooks Desktop certification exam. Prerequisites: BAT117

Cabinet/Millwork (CBM)

CBM 115 Design, Layout & Safety (6)

Introduces the fundamentals of residential and commercial cabinet construction. Topics include Intro to cabinetmaking, Health and Safety, Career Opportunities, Industry, Cabinetry Styles, Components of Design, Design Decisions, Human Factors, Production decisions, Sketches, Mock-ups and Working Drawings, Measuring, Marking and Laying out materials.

CBM 130 Workplace Skills I (1)

This course utilizes Key Train Software to assist in advancement of knowledge in Applied Math, Reading for Information, and Locating Information Work Keys assessments that are required prior to exiting the program. Students will also be required to attend seminars provided through the Career Resource Center. Seminar topics include interview techniques, developing and preparing a resume, completing job applications, ethics, and teamwork.

CBM 135 Print Reading (1)

Print Reading describes how to read and interpret sets of commercial drawings and specifications. Print Reading describes how to derive cabinetmaking plans from architectural drawings and specifications. This course uses NCCER Craft Module 27201-13 and all students take a certification exam.

CBM 145 Cabinetry Materials & Products (6)

Topics include Wood Characteristics, Lumber and Millwork, Cabinet and Furniture Woods, Manufactured Panel Products, Veneers and Plastic Overlays, Adhesives, Gluing and Clamping, Bending and laminating, Overlaying and Inlaying Veneer, Installing Plastic Laminates, Glass and Plastic Products, Hardware, Fasteners and Ordering Materials and Supplies.

CBM 150 Millwork (5)

This course will utilize NCCER curriculum modules: 27208-13 and 27210-13 to cover the installation of metal doors and related hardware in steel-framed, wood framed, and masonry walls, along with their related hardware, such as locksets and door closers. It also covers the installation of wooden doors, folding doors and pocket doors. Students will learn to recognize different types of trim used in finish work. It focuses on the proper methods for selecting, cutting, and fastening trim to provide a professional finished appearance. Students will be tested for possible certification.

CBM 205 Machining Processes (6)

Machining Processes topics include Sawing with Hand and Portable Power Tools, Sawing with Stationary Machines, Surfacing with Hand and Portable Power Tools, Surfacing with Stationary Machines, Shaping, Drilling and Boring, Computer Numerically Controlled Machinery, Abrasives, Using Abrasives and Sanding Machines, Turning, Joinery, Accessories, Jigs, Special Machines, and Sharpening.

CBM 215 Finishing Techniques (6)

This course introduces the learner to the operation of traditional finishing equipment. Students perform numerous exercises to gain familiarity with finishing tools and industrial finishing equipment while building their skills and familiarity with different finishes. Finishing Units include Finishing Decisions, Preparing Surfaces for Finish, Finishing Tools and Equipment, Stains, Fillers, Sealers, and Decorative Finishes, and Top coatings.

CBM 235 Methods of Construction (6)

Topics include Case Construction, Frame and Panel Components, Cabinet Supports, Doors, Drawers, Cabinet Tops and Tabletops, Kitchen Cabinets, Built-in Cabinetry and Paneling and Furniture.

CBM 237 Crew Leadership (1)

Using NCCER module 46101-11 the student will be introduced to the principles of leadership. Students will learn about the construction industry today, business organization, team building, gender and minority issues, communication, motivation, problem solving, decision making, safety, and project control. Students will be tested for possible certification.

CBM 245 Cabinet Installation (5)

This course will introduce students to the procedures for building and installing various types of residential and commercial cabinetry. Using NCCER module 27211-13 students will receive instruction for the selection and installation of base, wall cabinets and counter-tops and test for possible certification. Using NCCER module 27501-07 students will be introduced to the materials, tools and methods used in cabinetmaking. Practice projects are included to help trainees learn the various joining techniques used by cabinetmakers, while providing practice on stationary power tools. Students will build a cabinet from a set of plans and will be tested for possible certification.

Cert Production Technician (CPT)

CPT 101 Safety in Manufacturing Product (3)

It is important to be safe while you work. This course provides you with an overview of the Occupational Safety and Health Administration General Industry Designated Training Topics. The course is intended to provide entry level general industry workers a broad awareness on recognizing and preventing hazards in a general industrial setting. The training covers a variety of safety and health hazards which a worker may encounter at a general industry site.

CPT 102 Quality Practice & Measurement (3)

In order to meet a customer's needs, quality consistent product must be produced. This is accomplished through the knowledge of the equipment operator. Each machine operator determines both the quality and quantity of production from his/her equipment. In this course you will learn basic Quality Practices and Measurements that will enable you to produce high quality products.

CPT 103 Manufacturing Process & Product (3)

Upon successful completion of this course, the student should be able to identify the job skills necessary to have a successful career. Topics include listening skills, oral communication, human relations, decision making/problem solving, how to work as a team, and resource management.

CPT 104 Maintenance Training (3)

Preventive maintenance and production housekeeping are very important aspects of equipment operations. In this course the student will learn how to monitor production equipment for both routine and preventive maintenance.

Certified Logistics Technician (CLT)

CLT 101 Supply Chain Logistics (2)

A foundational course to prepare students to work in the world of supply chains and related competencies.

CLT 102 Certified Logistics Technician (1)

This course will provide students with the training, knowledge and skills that mid-level material-handling workers in supply chain logistics will need. Students who successfully complete the course will be eligible to take the assessment to become a certified logistics technician.

CLT 104 Certified Logistics Technician (2)

Mid-Level technical knowledge needed to understand the world of supply chain logistics and related core competencies. Learning materials competencies the application of logistics in product receiving, product storage, order processing, packaging and shipment, inventory control, safe handling of hazardous materials, evaluation of transportation modes, customs and dispatch and tracking operations. This course requires, approximately 35 hours.

CLT 250 Forklift Operation (1)

This course is designed to train entry level workers in the correct use of a forklift to unload, move, stack, and load materials for shipping and distribution.

Chemistry (CH)

CH 100 Science Success Strategies (2)

Interdisciplinary class may be taken as MA 105. Develops math and science skills fundamental to science majors. Prerequisite: MA 104, or MA 110, or MA 112, or MA 116 with a grade of D or better.

CH 101 Chemistry in Context (3)

This course introduces and applies major laws, concepts, and theories of chemistry in relation to environmental and energy issues confronting contemporary society. Prerequisite: None.

(General Ed Natural Science. Quan and Sci Reason Lit.)

CH 103 Introduction to Forensic Chemistry (3)

This course emphasizes the history, philosophy and major theories of chemistry as they apply to current forensic analytical techniques. Prerequisite: None.

(General Ed Natural Science. Critical and Creative Thinking.)

CH 121 General, Organic, and Biological Chemistry (5)

Designed for those students who need only a one-semester survey of the principles of chemistry or for nursing students. Includes vocabulary, laws, and applications of the basic concepts of chemistry. Laboratory work includes preparations, illustrations of laws and typical quantitative experiments. Chemistry 121 will not count towards a major or minor in chemistry. High school or on-line courses will not be considered equivalent to this course. Three one-hour lectures, one hour of recitation, and one three-hour laboratory period a week. Prerequisite: Equivalent or higher of MA 116 or MA 112 with a grade of C or better.

(General Ed Natural Science. Quan and Sci Reason Lit.)

CH 126 RN-BSN General, Organic, Bio Chemistry (3)

Designed to fulfill the degree requirement in chemistry for the Registered Nurse to Bachelor of Science in Nursing program, this course introduces measurements, atomic theory, compounds, solutions, and reactions.

Prerequisite: The student must be a registered nurse and enrolled in or received a C or better in MA 116, its equivalent or higher.

CH 151 Fundamentals of Chemistry I (5)

Designed for those students who need one year of general chemistry. This course discusses vocabulary and basic laws that are necessary as a foundation for future studies in chemistry. Topics covered will include such subjects as atomic structure, states of matter, chemical bonding and solutions. The emphasis in the laboratory is on quantitative work. Credit for CH 151 precludes subsequent earning of credit in CH 121. High school or on-line courses will not be considered equivalent to this course. Three class periods, one hour of recitation, and one three-hour laboratory period per week. Prerequisite: MA 116 or concurrent enrollment.

(General Ed Natural Science. Quan and Sci Reason Lit.)

CH 152 Fundamentals of Chemistry II (5)

A continuation of Chemistry 151. Includes a study of equilibrium, electrochemistry, thermodynamics, thermochemistry, and kinetics. Laboratory work deals with experimental studies on the theories of chemistry, qualitative analysis and independent laboratory projects. High school or on-line courses will not be considered equivalent to this course. Three one-hour lectures, one hour of recitation, and one three-hour laboratory period a week. Prerequisite: CH 151 with a grade of C or better.

(General Ed Natural Science. Quan and Sci Reason Lit.)

CH 202 Professional Forensic Science Seminar (2)

Students will be introduced areas of forensic science not covered in traditional science coursework through seminars as presented by professionals in the field. These areas will include topics that pertain to every field in forensics such as courtroom testimony, ethics and professionalism and government reporting on forensics. Additional topics may include arson investigation, digital evidence, gunshot residue analysis, firearms and toolmarks analysis and fraud investigation.

Prerequisite: None

CH 212 Chemistry of Food and Cooking (3)

This course will introduce students to advanced chemistry topics through examples of food and cooking. One two-hour lecture and one three-hour laboratory period per week. Prerequisite: CH 101 or higher.

(General Ed Natural Science. Quan and Sci Reason Lit.)

CH 300 Special Topics/Chemistry (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: Consent of instructor.

CH 317 Chemistry for STEM Educators I (3)

Designed to introduce concepts and applications of chemistry to STEM educators. This includes chemical safety, vocabulary, atomic structure, states of matter, gases, chemical interactions, bonding, solutions, kinetics, thermodynamics, and thermochemistry. Composed of three hours of lectures/demonstrations/laboratory exercises each week. This course does not satisfy any chemistry prerequisite/requirement outside of the STEM program. Prerequisites: MA 112 or MA 116 and PS 108 with a letter grade of a "C" or higher; concurrent enrollment in ED 317 Chemistry for STEM Educators II

CH 320 Analytical Chemistry (3)

The theoretical and practical fundamentals of classical and physiochemical methods of analysis, with special emphasis on the relationship between physical and analytical chemistry. Prerequisites: a score of at least the 40th percentile on the American Chemical Society full-year General Chemistry Exam, and CH 152 with a grade of C or better.

CH 321 Analytical Chemistry Lab (1)

Principles and techniques of analytical and physical measurements with computer assisted analysis. One three hour laboratory per week. Prerequisites: CH 152 with a grade of C or better and concurrent enrollment in CH 320 or consent of instructor.

CH 323 Advanced Forensic Chemistry (0-4)

Advanced Forensic Chemistry will familiarize students with the most common laboratory equipment and techniques found in a forensic chemistry lab, allowing them to apply the principles learned in the lecture portion to analyze mock evidence, correctly interpret data and effectively communicate results. At the end of the course, there will be a mock case that students will work from start to finish, ending with a testimony in a mock courtroom. Prerequisites – CH 340 Organic Chemistry I with a C or better

CH 340 Organic Chemistry I (3)

The principles of organic chemistry and their application to the preparation, properties, and reaction of aliphatic, aromatic, and a few heterocyclic compounds. Prerequisites: a score of at least the 40th percentile of the American Chemical Society full-year General Chemistry Exam, and CH 152 with a grade of C or better.

CH 341 Organic Chemistry II (3)

A continuation of Chemistry 340. Three class periods per week. Prerequisite: CH 340 with a grade of C or better.

CH 342 Organic Chemistry Lab I (2)

Principles and techniques of organic chemistry, including preparation, separation, identification, and use of microscale equipment. One hour of lecture and one three-hour laboratory period per week. Prerequisites: CH 152 and CH 340 with a grade of C or better or concurrent enrollment.

CH 343 Organic Chemistry Lab II (2)

A continuation of CH 342 with emphasis on spectroscopy and other instrumental techniques. One hour of lecture and one three-hour laboratory period per week. Prerequisites: CH 341 or concurrent enrollment, and a grade of C or better in CH 342.

CH 345 Inorganic Chemistry Lab (2)

Emphasis on inorganic preparations and analytical and physical measurements on inorganic and organometallic compounds with computer assisted analysis of data. One hour lecture and one three-hour laboratory period per week. Prerequisites: CH 152 and CH 342 with a grade of C or better.

CH 346 Instrumental Analysis (2)

Advanced techniques, instrumentation, computational analysis, and computer analysis are used to investigate biological, inorganic, and organic compounds. One hour lecture and one three-hour laboratory period per week. Prerequisites: CH 321 and CH 343 with a grade of C or better.

CH 347 Physical Chemistry Concepts Lab (1)

Techniques and interpretation of physical systems measurements. One three-hour laboratory per week. Prerequisite: CH 343 with a grade of C or better.

CH 350 Biochemistry I (3)

Basic principles of the structure and chemistry of biochemical molecules, such as proteins, nucleic acids, carbohydrates, lipids, enzymes, and vitamins. Prerequisites: a score of at least the 40th percentile on the American Chemical Society full-year General Chemistry Exam, and CH 340 with a grade of C or better.

CH 351 Biochemistry Laboratory I (2)

Biochemistry from the laboratory aspect, with special emphasis on modern techniques and instruments. One four-hour laboratory period a week, one hour lecture and one three-hour laboratory period per week. Prerequisites: CH 342 and CH 350 with a grade of C or better or concurrent enrollment and consent of instructor.

CH 352 Biochemistry II (3)

A continuation of CH 350 emphasizing metabolism, regulatory mechanisms, and DNA replication and expression. Prerequisite: CH 350 with a grade of C or better.

CH 353 Biochemistry Laboratory II (2)

Emphasis on individual projects using the tools of biochemistry from CH 351 and the biochemical literature. One four-hour laboratory period a week. Prerequisites: CH 350 and CH 351 with a grade of C or better.

CH 355 Medicinal Chemistry (2)

A brief history of the development of medicinal chemistry and its social and political implications. Major emphasis will be placed on the methods of discovery and development of drugs. Examples will be drawn from natural products, including plants, animal, and microbiological sources, from organic synthesis, and from modern physicochemical approaches. The mechanism of action, metabolism, and proof of structure of representative drugs will be presented. Prerequisite: CH 341 with a grade of C or better.

CH 360 Descriptive Inorganic Chemistry (3)

Descriptive chemistry of the inorganic elements based on the principles learned in freshman chemistry. Prerequisite: CH 152 with a grade of C or better.

CH 362 Spectroscopy (2)

An introduction to the interpretation of the spectra of organic compounds. Prerequisite: CH 343 with a grade of C or better.

CH 371 Advanced Topics in Chemistry (1)

The specific course content will depend on the instructor. At least two of the following four topics will be introduced: synthetic polymers, biological macromolecules, supramolecular aggregates, meso or nanoscale materials. Introduction to these topics will include preparation, characterization, and physical properties. Thirty hours of chemistry or consent of instructor(s) is required.

CH 380 Fundamentals of Physical Chemistry (3)

A non-calculus based physical chemistry class. Prerequisites: a score of at least the 40th percentile on the American Chemical Society full-year General Chemistry Exam, CH 152, PS 261 or PS 281 with a grade of C or better.

CH 381 Physical Chemistry I (3)

Covers the properties of gases, kinetic principles, thermodynamics, state changes, equilibrium, and properties of solution. Prerequisites: a score of at least the 40th percentile on the American Chemical Society full-year General Chemistry Exam, and CH 152 with a grade of C or better, PS 282 (highly recommended) or PS 262, and MA 151 or concurrent enrollment.

CH 382 Physical Chemistry II (3)

Covers quantum principles with applications to atomic and molecular structure and spectroscopy, statistical thermodynamics, and kinetic theory of gases. Prerequisites: CH 381 with a grade of C or better and MA 152 or concurrent enrollment.

CH 383 Physical Chemistry III (3)

Application of quantum theory in spectroscopy, gas and solution phase molecular reaction dynamics, surface chemistry, and electrochemistry are investigated. Prerequisite: CH 382 with a grade of C or better.

CH 385 Physical Chemistry Lab (1)

Experimental measurements and data analysis emphasize the physics of chemical systems. One three hour laboratory per week. Prerequisite: CH 381 with a grade of C or better or concurrent enrollment.

CH 386 Inorganic Chemistry (3)

Modern theories in inorganic chemistry, including atomic structure, molecular structure and bonding, symmetry and point groups, acid/base definitions, and oxidation/reduction concepts. These topics are applied to main groups, coordination compounds, and organometallic compounds and their respective reactions. Prerequisite: A score of at least the 40th percentile on the American Chemical Society Full-year General Chemistry Exam, and CH 340 with a grade of C or better.

CH 390 Undergraduate Chemical Research (1-5)

Laboratory or theoretical computational research in any of the fields of chemistry, a typed formal report is required. Students may enroll for more than one semester of research. No more than five credit hours may be applied toward meeting departmental or graduation requirements. Prerequisite: departmental permission.

CH 391 Chemistry Seminar (1)

Students must enroll for one credit of seminar and give oral and written presentations on subjects chosen from a list of supplied topics to meet the requirement of the major in chemistry. Prerequisite: departmental permission.

CH 393 Internship (3)

Experience training in a professional forensic laboratory. Prerequisites: Chemistry, 25 credits; Biology, 12 credits; chair approval.

Childcare (CCC)

CCC 115 Child Care Curriculum Planning (2)

This course introduces techniques for guiding the following types of experiences: art, storytelling, puppetry, writing, math, science, social studies, music, and field trips. Assessment of the course includes written and assigned activities.

CCC 125 Guidance & Discipline/Family (2)

This course will assist students in developing guidance skills, handling guidance challenges, establishing classroom rules, and involving parents and family. Assessment of the course includes written and assigned activities.

CCC 130 Regs Safety Abuse (2)

This course will address KDHE Licensing Regulations, in-service training on First Aid, CPR, abuse, neglect, and communicable diseases, and promoting children's safety. Assessment of the course includes written and assigned activities.

CCC 140 Collection File I (1)

This course requires assembling a portfolio of various activities that can be used as teaching tools in the center. The method of instruction will utilize the resource library and various web sites. Assessment of the course includes written and assigned activities.

CCC 150 Child Care Lab I (5)

This course involves participation in the licensed child care center under supervision of the unit leader. Students use knowledge and skills expected of professionals new to the early care and education field. Assessment of the course includes preparing lesson plans and implementing activities in the center with evaluation completed by the unit leader.

CCC 215 Intro Early Child (2)

This course introduces students to the fundamentals of early child care. Topics include program orientation, types of early childhood programs, observation and assessment of children, and child development principles and theories. Assessment of the course includes written and assigned activities.

CCC 225 Child Care Program Development (2)

This course will assist students in developing teaching philosophies, developing areas for a balanced curriculum, writing lesson plans, selecting toys, equipment and educational materials, and exhibiting professionalism. The method of instruction will utilize textbook, lecture, and student activity sheets. Assessment of the course includes written and assigned activities.

CCC 230 Inf/Toddler/Exceptional Child (2)

This course introduces students to quality programs for infants and toddlers, school-age children, and children with special needs. Assessment of the course includes written and assigned activities.

CCC 240 Collection File II (1)

This course is the continuation of compiling a teaching portfolio. The method of instruction will utilize the resource library and various web sites. Assessment of the course includes written and assigned activities.

CCC 250 Child Care Lab II (5)

This course involves participation in the licensed child care center under the supervision of the unit leader. Students should demonstrate increased knowledge and skills by assuming a teacher's role. Assessment of the course includes planning, developing, and implementing lesson plans with evaluation done by the unit leader.

Climate & Energy Control (CEC)

CEC 105 Workplace Skills (1)

Upon successful completion of this course, the student should be able to identify the job skills necessary to have a successful career in the field of their choice. Topics included listening skills, oral communication, human relations, decision making/problem solving, how to work as a team, time and resource management, work ethics, career planning and resume building.

CEC 110 Safety Orientation/OSHA 10 (1)

Safety Orientation/OSHA 10 provides the student with an overview of the OSHA standards relevant to the construction industry. Various topics are presented in a 15-hour format. Among the subjects covered in the course are: an introduction to OSHA, electrical safety, fall protection, and excavation and trenching safety.

CEC 115 Electrical Fundamentals (4)

The student will receive instruction in basic electrical theory for DC and Alternating Current systems. The student will have knowledge on the production of electricity and how to apply Ohm's Law and Power Formula. Electrical safety is taught along with skills in how to read and interpret schematic diagrams. This class must be passed with a minimum of a C or 78% for the student to continue to next course.

CEC 116 Electrical Fundamentals II (1)

Students will be introduced to motor theory and explore motor applications. This course builds on previous knowledge gained in Electrical Fundamentals I and requires a firm understanding of magnetism and voltage production. Motor trouble shooting will be introduced. Types of motors covered will be single phase motors, three phase and ECM motors. This class must be passed with a minimum of a C or 78% for the student to continue to next course.

CEC 120 Heating System Fundamentals (3)

This course will give students a firm understanding of combustion and how it is applied in the HVAC trade. Residential gas furnaces will be studied in detail in order to gain understanding in how they are installed and serviced. A thorough understanding of Standard, Midrange and High Efficiency furnace service and installation will be earned as a result of this course. This class must be passed with a minimum of a C or 78% for the student to continue to next course.

CEC 121 Heating System Fundamentals II (2)

The heating System Fundamentals II course is designed to walk student thorough the requirements of the Uniform Mechanical Code in relation to Gas Piping and exhaust ventilation. Student will gain a thorough understanding and be able to apply skills in sizing vents and pipe upon completion of this course.

CEC 125 Adv Electrical Theory for HVAC (2)

Advanced Electrical Theory for HVAC is a continuation of Electrical Fundamentals and places an emphasis on developing systematic diagnosis and troubleshooting methods and procedures that will enable the student to become a highly-skilled, professional HVAC-R service technician.

CEC 126 Advanced Heating Systems (3)

This course will introduce students to electric furnaces and hydronic heating with an emphasis on the electrical systems of those units and code requirements for the safe installation of such equipment. Indoor air quality will be discussed in detail as a major factor in human comfort.

CEC 135 Sheet Metal Fabrication I (3)

This course focuses on sheet metal fabrication utilizing various sheet metal tools and techniques. Duct sizing is discussed in addition to code requirements for duct systems.

CEC 202 Environmental HVAC Systems (4)

Environmental HVAC Systems introduces students to the heat transfer systems used in commercial applications to maintain comfort in a space. Students will gain an understanding of heat transfer, system design, commercial equipment and their operations. This course prepares students to enter into commercial work and exposes them to old and new designs they will encounter in the field while helping them understand the practices for energy efficiency in these systems.

CEC 205 HVAC Fundamentals (4)

This course is designed to introduce students to the broader picture that is HVAC. Students will become familiar with trade related organizations, job requirements, gain skills in soldering and brazing, and demonstrate learned skills to service and repair air conditioning systems. Students must earn a C grade or better in this course in order to advance to the next course.

CEC 210 EPA 608 (1)

Students will be certified in federal regulations of safe refrigerant handling practices. Successful completion of the certification course is required for technicians to work with and purchase refrigerants.

CEC 215 Intro Mechanical Refrigeration (4)

The students will apply knowledge previously learned in HVAC Fundamentals to ice machines, refrigerators and commercial coolers. Students will learn the function of the specialized electrical circuits and how to service and repair these systems.

CEC 225 Heat Pumps (3)

The student will learn the basic functions of various Heat Pump design as well as charging and troubleshooting procedures.

CEC 230 Commercial HVAC (4)

This course will introduce students to the commercial applications of various HVAC systems. A strong foundation in refrigeration theory is required as well as a comprehensive understanding of system airflow and electrical fundamentals. Students who complete this course will be skilled in reading advanced electrical schematics and be able to describe the function and application of various commercial systems and components including Direct Digital Control systems and frequency drives. This is a capstone course.

CEC 235 Commercial HVAC Lab (4)

This course continues the introduction to Commercial HVAC systems through hands-on training. Students will be performing basic maintenance, repairs and troubleshooting on functioning light commercial and commercial equipment.

Clinical Laboratory Sciences (CL)

CL 407 Clinical Laboratory Operations (2)

This course provides a basic introduction to the theory, practical application, technical performance and evaluation of laboratory skills specific to the practice of clinical laboratory science. Laboratory safety; microscopy; pipetting; general laboratory equipment; quality control; mathematics; phlebotomy; pre-analytic, analytic and post-analytic processes, including specimen collection, processing and transport to maintain test result integrity, will be addressed. Prerequisite: Admission to the Clinical Laboratory Science program.

CL 408 Introduction to Clinical Hematology (2)

This course introduces the theory, practical application, technical performance and evaluation of hematological and hemostasis procedures. There is an emphasis on the correlation of clinical laboratory data with the diagnosis of erythrocyte, leukocyte and bleeding/clotting disorders. Prerequisite: Admission to the Clinical Laboratory Science program.

CL 409 Introduction to Microbiology (2)

This course introduces the theory, practical application, technical performance and evaluation of procedures for isolation, identification and susceptibility testing of infectious disease organisms in humans. The course focuses on bacteriology, emphasizing the correlation of clinical laboratory data with the patient's diagnosis and treatment. Prerequisite: Admission to Clinical Laboratory Science program.

CL 410 Introduction to Clinical Chemistry & Urinalysis (1)

This course introduces the theory, practical application, technical performance and evaluation of basic laboratory skills and methods in clinical chemistry and urinalysis. Correlation of laboratory data with the diagnosis and treatment of carbohydrate, renal, liver, protein, electrolyte and acid-base disturbances is emphasized. Prerequisite: Admission to Clinical Laboratory Science program.

CL 411 Introduction to Clinical Immunohematology (1)

This course introduces the theory, practical application, technical performance and evaluation of immunohematology procedures required for the collection, processing, storage and transfusion of blood and blood components and management of immunohematologic conditions. Prerequisite: Admission to Clinical Laboratory Science program.

CL 412 Clinical Laboratory Science Theory, Application, Correlation (5)

This course includes the application, evaluation and correlation of laboratory procedures used in the diagnosis and treatment of common disease states. Opportunities for building critical thinking, oral communication, professional behavior, and teamwork skills are provided in small group clinical case decisions.

CL 413 Clinical Endocrinology & Toxicology (1)

This course incorporates advanced theory, practical application, and evaluation of clinical chemistry laboratory procedures. Correlation of clinical laboratory data with diagnosis and treatment of endocrine disorders, toxicology disturbances and therapeutic drug monitoring is emphasized.

CL 414 Clinical Chemistry & Urinalysis I (2)

This course expands on the theory, practical application, technical performance and evaluation of basic laboratory procedures introduced in CL410, Introduction to Clinical Chemistry and Urinalysis. This course will focus on the interpretation, evaluation, and correlation of clinical laboratory data with the diagnosis and treatment of carbohydrate, renal, liver, protein, cardiac, lipid, electrolytes, trace elements, pancreatic-GI and acid-base disturbances. Prerequisite: CL 410.

CL 415 Clinical Chemistry & Urinalysis II (2)

This course expands on the theory, practical application, and evaluation of laboratory procedures introduced in CL 414 Clinical Chemistry and Urinalysis I and CL 444 Clinical Core Laboratory Practical I. Correlation of clinical laboratory data with the diagnosis and treatment monitoring of carbohydrate, renal, hepatic, cardiac, lipid/lipoprotein, protein, major and minor electrolyte, trace element, enzyme, pancreatic-gastrointestinal and acid-base disorders; tumor markers; and inborn errors of metabolism is emphasized. Prerequisite: CL 414.

CL 416 Clinical Hematology I (2)

This course expands on the theory, practical application, technical performance and evaluation of hematological and hemostasis procedures introduced in Introduction to Clinical Hematology. There is an emphasis on the correlation of clinical laboratory data with the diagnosis and treatment of erythrocyte, leukocyte and bleeding/clotting disorders. Prerequisite: CL 408

CL 417 Clinical Hematology II (2)

This course expands on the theory, practical application, and evaluation of hematological and hemostasis procedures introduced in CL 416 Clinical Hematology I and CL 444 Clinical Core Laboratory Practicum I, and includes the analysis of cerebrospinal, synovial and serous fluids. Correlation of clinical laboratory data with the diagnosis and treatment of erythrocyte, leukocyte and bleeding/clotting disorders will be emphasized. Prerequisite: CL 416.

CL 418 Clinical Microbiology I (2)

This course expands on the theory, practical application, technical performance and evaluation of procedures for isolation, identification and susceptibility testing of infectious disease organisms in humans introduced in Introduction to Clinical Microbiology. The course focuses on bacteriology emphasizing the correlation of clinical laboratory data with patient's diagnosis and treatment. Prerequisite: CL 409.

CL 419 Clinical Microbiology II (2)

This course incorporates advanced theory, practical application, technical performance and evaluation of procedures for isolation, identification and susceptibility testing of infectious disease organisms in humans. This course includes bacteriology, mycology, parasitology, virology and serology, and emphasizes the correlation of clinical laboratory data with the patient's diagnosis and treatment. Prerequisite CL 418.

CL 420 Clinical Immunology & Molecular Diagnostics (2)

This course includes the theory, practical application, and evaluation of immunological components, principles and methodologies used in the assessment of immunologically related disorders, including hypersensitivity reactions, autoimmune, immunoproliferative and immunodeficient disorders. The theory and application of molecular diagnostic tools, such as polymerase chain reaction (PCR), nucleic acid probes, and microarrays are also addressed. Prerequisite: Declared major in Clinical Laboratory Science and acceptance into CLS program.

CL 422 Clinical Immunohematology I (2)

This course expands on the theory, practical application, technical performance and evaluation of immunohematology procedures required for the collection, processing, storage and transfusion of blood and blood components and management of immunohematologic conditions that was introduced in CL 411 Introduction to Clinical Immunohematology. Prerequisite: CL 411.

CL 423 Clinical Immunohematology II (2)

This course incorporated advanced theory, practical application, technical performance and evaluation of blood bank procedures required for transfusion of blood and blood components and for handling and storage of blood and blood components. Prerequisite: CL 422.

CL 430 Clinical Laboratory Management I (2)

This course includes the theory, practical application, technical performance and evaluation of laboratory management principles and associated models. Lectures and assignments focus on effective written and oral communications, critical evaluation of research studies, compliance and regulatory issues, educational methodology, human resources financial management, laboratory operations, cultural competency, professionalism and ethical decision making. Opportunities to build problem-solving, teamwork and management skills are provided.

CL 431 Clinical Laboratory Management II (3)

This course includes the theory, practical application, technical performance and evaluation of laboratory management principles and associated models. Opportunities for building critical thinking, problem-solving, and management/professional leadership skills are provided. Prerequisite: CL 430.

CL 442 Clinical Immunohematology Practicum I (1)

This course provides practical application in a clinical laboratory setting for the technical performance and evaluation of clinical immunohematology procedures and preparation of blood components. Course content will include new skills and procedures, in addition to the skills and procedures presented in CL 407 Clinical Laboratory Operations and CL 411 Introduction to Clinical Immunohematology. Prerequisite: Admission to Clinical Laboratory Science program.

CL 443 Clinical Immunohematology Practicum II (1)

This course provides practical application in a clinical laboratory setting for the technical performance and evaluation of clinical immunohematology procedures and preparation of blood components. Course content will include new skills and procedures, in addition to the skills and procedures presented in CL 442 Clinical Immunohematology Practicum I. Prerequisite: Admission to the Clinical Laboratory Science program.

CL 444 Clinical Core Lab Practicum I (1)

This course provides practical application in a clinical laboratory setting for the technical performance and evaluation of clinical hematology/hemostasis, chemistry and urinalysis procedures. Course content will include new skills and procedures and the application of automation and automatic verification techniques, building on the skills and procedures presented in CL 407 Clinical Laboratory Operations, CL 408 Introduction to Clinical Hematology and CL 410 Introduction to Clinical Chemistry and Urinalysis. Prerequisite: Admission to the Clinical Laboratory Science program.

CL 445 Clinical Core Lab Practicum II (1)

This course provides practical application in a clinical laboratory setting for the technical performance and evaluation of clinical hematology/hemostasis, chemistry and urinalysis procedures. Technical content will include new skills and procedures, in addition to CL 444 Clinical Core Practicum I. Prerequisite: Admission to Clinical Laboratory Science program.

CL 448 Clinical Microbiology Lab Practicum I (1)

This course provides practical application in a clinical laboratory setting for the technical performance and evaluation of clinical microbiology procedures. Course content will include new skills and procedures, in addition to the skills and procedures presented in CL 407 Clinical Laboratory Operations and CL 409 Introduction to Clinical Microbiology. Prerequisite: Admission to Clinical Laboratory Science program.

CL 449 Clinical Microbiology Lab Practicum II (1)

This course provides practical application in a clinical laboratory setting for the technical performance and evaluation of clinical microbiology procedures. Course content will include new skills and procedures, in addition to the skills and procedures presented in CL 448 Clinical Microbiology Laboratory Practicum I. Prerequisite: Admission to Clinical Laboratory Science program.

Collision Repair (CLR)

CLR 121 Non-Structural A&D Repair 1 (4)

Through a variety of classroom and/or shop/lab learning and assessment activities, students in this course will explore the components of safety pertaining to auto collision and repair, explore the parts and construction of vehicles, explore opportunities in the auto collision industry, identify metal straightening techniques, identify the application and use of body fillers, demonstrate proper use, set-up and storage of welding equipment, distinguish between weld able and non-weld able materials, demonstrate fundamental industry standard recommended welds, identify plastics and adhesives used in automotive industry, explain the general purpose of damage, estimation and repair orders; explore the processes required for outer body panel repairs, replacements and adjustments, and demonstrate fundamental cutting procedures.

CLR 126 Non-Structural A&D Repair 2 (4)

Through a variety of classroom and/or lab/shop learning and assessment activities, students in this course will identify trim and hardware to be protected, examine what to consider when working with movable glass, perform outer body panel repairs, perform outer body replacements and adjustments; perform metal straightening techniques, perform body filling techniques, perform metal finishing techniques, use welding procedures in non-structural damage repair, distinguish between mechanical and electrical components, apply safety standards for the collision repair industry, use cutting procedures in non-structural damage repair, and determine procedures necessary for working with plastics and adhesives.

CLR 131 Structural A&D Repair 1 (2)

Through a variety of classroom and/or lab/shop learning and assessment activities, students in this course will identify measuring procedures, analyze the basic structural damage conditions, identify the safety requirements pertaining to structural damage repair, analyze frame repair methods, analyze unibody inspection and measurement, and identify procedures of welding for structural repair.

CLR 132 Structural A&D Repair 2 (2)

Through a variety of classroom and/or lab/shop learning and assessment activities, students in this course will apply safety requirements pertaining to structural damage repair, analyze frame inspection and repair procedures, determine direct and indirect damage for structural repair, analyze unibody inspection, measurement, and repair procedures, perform welding techniques for structural repair, and identify cutting procedures for structural repair.

CLR 141 Paint & Refinishing 1 (3)

Through a variety of classroom and/or lab/shop learning and assessment activities, students in this course will identify safety and personal health hazards according to OSHA guidelines and the "Right to Know" law, determine the different types of substrates and sanding materials relevant to auto body surface preparation, identify the process to clean and prepare a substrate for paint; distinguish between the properties, uses, and manufacturer specifications of metal treatments and primers, distinguish among the various types of spray guns and equipment; explore various paint codes and specifications for use, identify the various paint systems, explore the types of paint defects, distinguish between damage and non-damage related corrosion, and identify final detail procedures.

CLR 142 Paint & Refinishing 2 (3)

Through a variety of classroom and/or lab/shop learning and assessment activities, students in this course will select proper personal protective equipment, perform proper shop operations according to OSHA guidelines, remove paint coatings, apply corrosion resistant coatings, demonstrate proper spray gun operation and cleaning procedures, select proper painting and substrate materials for projects, analyze paint defects, causes and cures, repair paint defects, measure paint mil thickness, and determine final detail procedures for given projects.

CLR 151 Mechanical & Electrical (3)

Through classroom and/or lab/shop learning and assessment activities, students will determine how to diagnose steering and suspension, diagnose electrical concerns, complete head lamp and fog/driving lamp assemblies and repairs, demonstrate self-grounding procedures for handling electronic components, determine diagnosis, inspection, and service needs for brake system hydraulic components, examine components of heating and air conditioning systems, determine the inspection, service, and repair needs for collision damaged cooling system components, distinguish between the under car components and systems, and determine the diagnosis, inspection, and service requirements of active and passive restraint systems.

CLR 152 Intro to Est & Diagnostic Scan (2)

Through a variety of classroom and/or shop/lab learning and assessment activities, students in this course will: explore the components of analyzing damage pertaining to auto collision and repair; demonstrate basic estimating to identify structural repairs required, part design, construction materials, and manufacturing processes.

CLR 162 Workplace Skills (1)

This course utilizes KeyTrain Software to assist in reinforcing applied math and reading skills in preparation for the WorkKeys assessment, given prior to exiting the program. Students are encouraged to take the Locating Information WorkKeys exam as well, the third test needed to be eligible to earn a WorkReady Certificate. Students may also be required to attend seminars presented on campus dealing with topics such as interview techniques, developing and preparing a resume, completing job applications, ethics, and teamwork.

CLR 221 Non-Structural A&D Repair 3 (4)

Through a variety of classroom and/or lab/shop learning and assessment activities, students in this course will remove and install trim and hardware, determine process and procedures necessary for movable glass repair, repair outer body panel, replace and adjust outer body panels, remove and install mechanical and electrical components, demonstrate safety protocol appropriate for the auto repair setting, perform intermediate welding skills on non-structural damage repairs, and perform plastic and adhesive repairs.

CLR 226 Non-Structural A&D Repair 4 (5)

Through a variety of classroom and lab/shop learning and assessment activities, students in this course will apply safety requirements pertaining to structural damage repair, perform advanced welding and cutting techniques for structural repair, perform inspection and measurement of unibody for structural repair, repair unibody direct and indirect damage, perform frame inspection and measurement procedures, repair frame to industry standards, and remove and install fixed glass.

CLR 236 Structural A&D Repair 3 (3)

Through a variety of classroom and/or shop learning and assessment activities, students in this course will apply safety requirements pertaining to structural damage repair, perform welding and cutting techniques for structural repair; diagnose unibody direct and indirect damage, apply unibody inspection and measurement procedures, apply unibody repair procedures, apply frame inspection and measurement procedures, apply frame repair procedures, and remove fixed glass.

CLR 238 Structural A&D Repair 4 (3)

Through a variety of classroom and lab/shop learning and assessment activities, students in this course will apply safety requirements pertaining to structural damage repair, perform advanced welding and cutting techniques for structural repair, perform inspection and measurement of unibody for structural repair, repair unibody direct and indirect damage, perform frame inspection and measurement procedures, repair frame to industry standards, and remove and install fixed glass.

CLR 241 Adv. Estimating & Blueprinting (2)

Through a variety of classroom and/or shop/lab learning and assessment activities, students in this course will expand their knowledge and performance to explore the advanced components of analyzing damage pertaining to auto collision and repair; demonstrate a complete estimate to identify structural repairs required, part design, construction materials, and manufacturing processes. Prerequisite: CLR152: Intro to Estimating and Diagnostic Scanning.

CLR 242 Advanced Cutting & Welding (2)

In this course, students will analyze and prepare the vehicle for appropriate cutting and welding procedures, identify the appropriate safety concerns; determine and use the appropriate tools and materials to perform the cutting and welding procedures, and inspect the final product for quality.

CLR 246 Paint & Refinishing 3 (3)

Through a variety of learning and/or lab/shop learning and assessment activities, students in this course will identify safety and personal health hazards according to OSHA guidelines and the "Right to Know" law, determine the different types of substrates and sanding materials relevant to auto body surface preparation, identify the process to clean and prepare a substrate for paint, distinguish between the properties, uses and manufacturer specifications of metal treatments and primers, distinguish among the various types of spray guns and equipment, explore various paint codes and specifications for use, identify the various paint systems, explore the types of paint defects, distinguish between damage and non-damage related corrosion, and identify final detail procedures.

CLR 248 Paint & Refinishing 4 (4)

Through a variety of classroom and/or lab/shop learning and assessment activities, students in this course will apply exemplary safety procedures in all areas of auto body painting and refinishing, perform proper cleaning procedures for a refinish, prepare adjacent panels for blending, prepare plastic panels for refinishing, protect all non-finished areas of vehicle, operate high and low volume/pressure spray gun operations for painting and refinishing, perform all paint system applications on an automobile, apply appropriate paint color matching and mixing procedures, tint color using formula to achieve a blendable match, explore the causes, effects and correction of buffing related imperfections, explore the causes, effects and correction of pigment flotation, measure mil thickness, apply decals, transfers, tape, wood grain, and pinstripe to an automobile, apply buffing and polishing techniques to remove defects, apply cleaning techniques to automobile interior, exterior, glass and body openings, and remove over spray.

CLR 253 Mechanical & Electrical 2 (3)

Through classroom and/or lab/shop learning and assessment activities, students will advance knowledge and skills to determine how to diagnose steering and suspension, diagnose electrical concerns, complete head lamp and fog/driving lamp assemblies and repairs, demonstrate self-grounding procedures for handling electronic components, determine diagnosis, inspection and service needs for brake system hydraulic components, examine components of heating and air conditioning systems, determine the inspection, service and repair needs for collision damaged cooling system components, distinguish between the under car components and systems, and determine the diagnosis, inspection and service requirements of active and passive restraint systems. Prerequisite: CLR151 Mechanical & Electrical.

CLR 256 Pulse Technology Welding (2)

In this course, students will identify different methods of attaching structural components (squeeze type resistance spot welding (STRSW), riveting, structural adhesive, MIG bronze, etc)

CLR 262 Plastic Repair Technology (2)

In this course, students will learn about and perform procedures for various types of plastic repair.

Commercial Heavy Construction (CHC)

CHC 105 Introductory Craft Skills (3)

This course introduces the student to basic safety, construction math, hand and power tools of the trade, basic blueprint reading, communication skills, and basic employability skills. Math and reading will be embedded in the curriculum. Introductory Craft Skills is required for all students entering the Carpentry program. The intent of this course is to introduce the students to the construction trades. It is very important for every student to learn the proper way to conduct themselves while in the shop or on-the-job site. This course will cover shop and job site safety, tool safety, personal protective devices, protective railings, proper storage and handling of construction materials, and construction drawings. This course will follow the NCCER modules for: Basic Safety, Introduction to Construction Math, Introduction to Hand Tools, Introduction to Power Tools, Introduction to Blueprints, Basic Rigging, Basic Communication Skills, and Basic Employability Skills.

CHC 110 Field Safety & Orientation (2)

Through a variety of classroom and/or lab activities the student will explore and demonstrate hazard recognition, signs, signals, barricades, work permits, material handling, specialty work, and health issues related to the industry. In addition, work zone safety, electric and high voltage issues, fall protection, ladders and scaffolding, lock-out/tag-out, safety inspections and meetings, and how to properly investigate and document an accident are discussed and implemented. Math and reading will be embedded in the curriculum.

CHC 120 Site Layout I (1)

This course introduces the student to site layout and how it applies to commercial sites for building pads and site work. Introduction to the equipment used for site layout of these projects, and common math equations encountered will be addressed. Math and reading are embedded in the curriculum.

CHC 122 Site Layout II (4)

The course will include surveying math, metric system, and conversion between English and metric. Concepts in working with formulas and equations will be an essential component of the course. Students will learn proper use and care for site layout equipment. An introduction to reading of blueprints and specifications are relevant to site layout of various projects. Math and reading are embedded in the curriculum.

CHC 130 Safety Certifications (2)

This course instructs and prepares the student for a certificate in trench safety and competent person training, confined space safety certificate; and the OSHA 30-hour safety certificate. Industry has a high priority and focus on these safety certifications. Math and reading are embedded in the curriculum.

CHC 140 Heavy Highway I (6)

In this course the student will be introduced to the heavy highway trade of trucks and heavy equipment. Course content includes procedures and components of trucks, heavy equipment, below grade construction, earthmoving, plant operations, paving, and structures. Math and reading are embedded in the curriculum.

CHC 150 Heavy Equipment I (5)

This course will prepare the student with technical skills to seek employment as a heavy equipment operator in the equipment operations career field. This course includes instructions and practical operation experience in bulldozers, backhoes, track excavators, skid loaders, motor graders, and dump trucks. Students will also have a working understanding of grade reading, laser level operation, engineering stake interpretations, safety procedures, and equipment maintenance. Math and reading will be embedded within the curriculum.

CHC 180 Pipe Laying I (6)

Through classroom and/or lab experiences, instruction will include proper use of hand and power tools in the pipe laying trade, receiving and inspecting pipe upon arrival on the job site, cutting and fabricating the pipe, discussion of concrete, PVC, and ductile iron pipe, proper elevations, foundations and stabilization, bedding and de-watering practices will be discussed. Math and reading will be embedded in the curriculum.

CHC 195 Class A CDL (1)

This course will provide technical knowledge and skills for the student about various trucks in the 54,000 lb. tag weight and used in construction. Dump trucks will be the primary focus and the student will learn the components of the trucks as well as be instructed on safe operation of the vehicle. Math and reading will be embedded in the program. Pre-and post-trip inspections will be taught along with proper paperwork required in such vehicle. Optional: the student may complete the assessment to obtain the Class A CDL.

CHC 250 Heavy Equipment II (7)

This course will focus on the student's choice of heavy equipment. Application of all heavy equipment safety aspects is required. The training will take the student into more extensive operating procedures and will be tailored to an intermediate experience level. The course plan is progressive as the instructor introduces general maneuvers and the student advances their skill towards skills of greater difficulty and complexity. Students will be encouraged to attempt, practice, and perform simulations to demonstrate their skilled achievements. Math and reading will be embedded within the program.

CHC 255 Heavy Equipment II Application (6)

This laboratory/application course will focus on advancing the skills of the student on heavy equipment. Technical knowledge learned in CHC250 will be applied in this course. With practice, it is the intent that applied skills will improve on various pieces of equipment. Equipment used will consist of bulldozers, backhoes, loaders, track hoes, uni-loaders, and off road trucks. As the student completes each task he/she will move to a more challenging task. The instructor will monitor each task and improvement of student. Tasks are pass or fail. Math and reading will be incorporated in each task as it applies in the field.

Communication (CN)

CN 101 Introduction to Communication Studies (3)

Examines concepts and skills involved in human communication. Topics include language, nonverbal communication, relationships, perception, and conflict management. Emphasizes the ability to analyze and synthesize information, and to interpret and assess human values. Prerequisite: None.

(General Ed Humanities. Communication.)

CN 150 Public Speaking (3)

Focuses on the process of speech preparation and presentations. Emphasizes the development of critical thinking and listening, clear speaking, and the interpretation of human values through the development of public speaking competencies. Prerequisite: None.

(General Ed Humanities. Communication.)

CN 154 Debate (1-3)

Preparation for intercollegiate debate. May be repeated up to 3 hours. Prerequisite: Consent.

CN 302 Communication Theory (3)

Explores the theoretical foundations that underlie applications in a variety of communication contexts. Provides broad exposure to contemporary communication theory. Prerequisite: CN 101.

CN 304 Qualitative Communication Research Methods (3)

Presents fundamental types and steps of qualitative research in communication. Prerequisites: CN 101 or special permission.

CN 305 Quantitative Communication Research Methods (3)

Presents fundamental types and steps of quantitative research in communication. Prerequisites: CN 101, & MA 112 or higher, or special permission.

CN 306 Health Communication (3)

Explores the concepts and theories of health communication. Examines the demands of health care and health promotion, communication issues and problems in modern health care systems, and identifies communication strategies health care consumers and providers can employ to achieve their health care goals.

CN 307 Communication in Legal Process (3)

Explores the practice of communication in the legal setting, including attorney-client interaction, the trial process, attorney-jury interaction, and legal negotiation.

CN 308 Organizational Communication (3)

Examines organizations from a communication perspective. Emphasizes how organizational variables affect communication patterns. Topics include concepts, skills, theories, and strategies for improving organizational communication.

CN 309 Political Communication (3)

Examines communication concepts in campaigns, presidential addresses, and other political environments.

CN 330 Communication in Conflict and Negotiation (3)

Explores the roles of communication in conflict and negotiation within relationships, groups, and organizations. Examines both theory and practice.

CN 340 Interviewing (3)

Examines the key concepts and needed skills to conduct effective interviews in many settings.

CN 341 Persuasive Speaking (3)

Sharpens persuasive speaking skills initiated in Public Speaking. Focuses on preparation, delivery, and analysis of persuasive speeches in a variety of contexts, including political and corporate settings. Prerequisite:

CN 150.

(General Ed Humanities. Communication.)

CN 342 Communication-Teams and Groups (3)

Provides an in-depth look at group dynamics and communication.

Focuses on communication and decision making, relationships, conflict, leadership, and group development.

CN 343 Debate (1-3)

Preparation for intercollegiate debate. May be repeated up to 4 hours.

Prerequisite: Consent

CN 344 Oral Interpretation (3)**CN 350 Persuasion (3)**

Examines theory and research on the role of communication in influencing attitudes, beliefs, values, and behaviors.

CN 351 Interpersonal Communication (3)

Examines critical factors in interpersonal communication. Analyzes and applies various interpersonal theories and concepts to a variety of relationships.

(General Ed Humanities. Critical and Creative Thinking.)

CN 352 Truth and Deception (3)

This course examines a particularly human activity (or skill?): Lying and deception. Study of these topics draws from recent scholarship in the disciplines of Communication Studies, Psychology, Philosophy, Public Policy, and Marketing. Theoretical concepts will be brought down to earth as we consider them at work in applications to current events and breaking news. Prerequisite: None.

CN 353 Environmental Communication (3)

This course looks at ways human symbols define, construct, and impact "the environment." Focuses include understanding and creating environmental messages, examining constructs of wilderness and civilization, and analyzing strategies designed to meet environmental challenges, to build communication campaigns, and to engage in environmental advocacy. Topics include eco-tourism, "green" schemes, and representations in social and mass media, visual media, and popular culture. Prerequisite: None.

CN 354 Reputation Management (3)

This course examines the role strategic communication with publics plays within corporate and institutional settings, specifically its effectiveness in developing and maintaining external and internal relationships. Methods combine close reading, current event applications, case analyses and focused discussion. Special attention is paid to strategies of crisis planning and management, apologia, and rhetorical reputation management techniques. Prerequisites: None.

CN 359 Methods of Teaching Speech and Drama (3)

The study and application of teaching strategies for secondary education certification in speech. Prerequisites: Advisor approval and formal admission to teacher education.

CN 361 Communication in Social Movements (3)

Assesses theories, models, practice, and criticism of protest communication related to a variety of sociocultural movements.

CN 363 Intercultural Communication (3)

Explores speech communication in and between different cultures and communities.

CN 364 Gender Communication (3)

Focuses on how gender influences communication patterns between and among men and women. Communication influences the creation of gender roles and identity.

CN 365 Business/Professional Presentation (3)

Focuses on principles and practices of public speaking in corporate and professional settings such as reports, proposals, and meetings. Emphasizes clear speaking and information processing in terms of synthesis and analysis.

CN 366 Nonverbal Communication (3)

Explores nonverbal communication by individuals and society.

CN 367 Crisis Communication (3)

Crises are best managed through sound communication practices. This class will help you to develop understanding of the crisis life-cycle, along with effective strategies you can use to foresee, prepare for, and manage crises in professional and personal dimensions of life. Prerequisite: None.

CN 368 The Rhetoric of Hip Hop and Rock n Roll (3)

This course explores the rhetorical dimensions of rock 'n' roll and hip hop by examining four interconnected themes and their relation to communication: fandom, stardom, criticism, and failure. In addition, concepts such as identity, anti-heroism, appropriation, place, production, improvisation, tone, and flow are explored and discussed. With the benefit of open access content as well as short readings, we will focus on some of the key figures in rock 'n' roll and hip hop (e.g., AC/DC, Jimi Hendrix, Beyoncé, Drake, Kendrick Lamar) along with their motivations and messages. Prerequisites: None.

CN 369 Critical Studies (3)

Examines cultural practices and their relation to communication as both the object of study and the location of political criticism and action.

CN 370 Communication Training & Development (3)

Emphasizes the theory and practice of training and development in organizations. Prerequisites: CN 150 and CN 308, or with consent of instructor.

CN 380 Strategic Management Communication (3)

Strategic Management Communication links current theories of business communication to applications and practices that build on these within professional settings. The course provides essential information as to expectations for form and content of a variety of message types that apply to all business situations. Using the case method as a tactic for understanding applications of this material in current business settings, students develop theory-based and strategy-driven skills in production of written and oral document types used in business, corporate, and management communication. Prerequisites: CN 101 required; preferred CN 308 Organizational Communication.

CN 395 Special Topics/Communication (1-3)

Focuses on a topic not regularly offered, but that enhances the curriculum because of specialized faculty or student interest.

CN 490 Directed Research (1-3)

Selected research on communication topics not provided in the curriculum.

CN 491 Senior Capstone Internship (3)

Experience and training in professional settings related to communication careers. Second semester junior or senior status. Majors only. Prerequisites: 27 hrs of communication courses completed including: CN 101, CN 150, CN 302, CN 304 or CN 305, EN 300, and instructor approval. Note: Students can choose either CN 491 or CN 498 to meet their Capstone requirement.

CN 498 Senior Capstone (3)

Students design and execute an appropriate project which provides a culminating experience for the undergraduate academic career and is presented in a departmental forum. Prerequisites: 27 hrs of communication courses completed, including CN 101, CN 150, CN 302, CN 304 or CN 305, EN 300 and Instructor approval. Note: Students can choose either CN 498 or CN 491 to meet their Capstone requirement.

CN 601 Introduction to Graduate Study - Communication Study (3)

This course examines concepts and skills involved in human communication. Topics include language, nonverbal communication, relationships, perception, and conflict management. The course emphasizes the ability to analyze and synthesize information, and to interpret and assess human values. This course is designed to introduce students to graduate learning. Prerequisite: Admission to graduate school. Consent of Department.

CN 630 Communication-Conflict/Negotiation (3)

Combines theory and application to prepare students to understand, negotiate and resolve disputes among parties with differing objectives and desires within relationships, groups, organizations and communities. An emphasis is placed on the narrative structure of conflict and negotiation. Prerequisite: CN 601

CN 642 Team Communication in Organizations (3)

This course provides an in-depth look at group dynamics and communication focusing on communication and decision making, relationships, conflict, leadership, and group development. Students will examine the theory and research on the role of communication in effective and efficient work teams. Prerequisite: CN 601

CN 650 Persuasion (3)

This course examines the theoretical and practical elements into the role of communication in influencing attitudes, beliefs, values, and behaviors. The course allows students to take this research and put it into practice in forming and analyzing persuasion campaigns in various contexts. Prerequisite: CN 601

CN 680 Seminar - Strategic Management Communication (3)

This course is built upon a 21st century theoretical foundation that links disciplines of business, organizational communication and corporate management, with a focus on planning and leadership. According to our textbook author, a unique and important aspect of the course is its emphasis "on strategy formulation, making a clear distinction between strategic and tactical elements of communication." Using the case method and other applications for theories we cover, students will understand how they can best use various channels and contexts of communication as tactics that will help them to achieve strategic goals. Prerequisite: CN 601

CN 695 Special Topics (3)

Focuses on a topic not regularly offered, but that enhances the curriculum because of specialized faculty or student interest. Prerequisites: None.

CN 698 Capstone (3)

Communication and Leadership Capstone Experience (3 credits) The capstone experience is the culminating experience of the master's degree program and is taken in the final semester. It requires the identification of an organizational or community problem or opportunity and the development and implementation of a project that defines, measures, analyzes, and improves the problem or opportunity. Prerequisite: CN 601 and 15 credit hours in graduate communication courses

CN 777 Continuous Enrollment (1-3)

This course is to allow additional time to complete Capstone, Thesis, or Practicum Requirements. Prerequisite: Instructor permission.

Community Engagement (CE)

CE 250 Community Service Transformational Experience I - Associating (1)

Students enrolling in this course will complete 50 hours of community service with an approved organization or agency and will meet regularly to reflect on their community service with an approved organization or agency. The focus of the service, readings, and discussions in CSTE I is on the basic concept in civic engagement--associating. To be human is to live among and with others. Our natural habitat is society. This is where civic engagement begins, with a gathering of people, some joining together, for us to have any kind of community or society. Associating is the underlying condition of civically engage activity--it is also the general form of civically engaged activity. At the heart of community service is the association or connection we develop with others. The readings, discussion, and writing for CE 250 CSTE I are chosen to help us think and talk about how, why, and with whom we associate through service (David & Lynn, 2006). Prerequisite: None.

CE 251 Introduction Poverty Studies (3)

This course examines poverty as a problem for individuals, families, and societies. It focuses on the United States, perhaps the most impoverished of any developed nation. Introduction to Civic Engagement-Poverty Studies is the first course in the Civic Engagement minor. This course emphasizes discussion intended to advance understanding and prompt critical analyses of the assigned readings. Prerequisites: None.

CE 350 Community Service Transformational Experience II - Serving and Giving (1)

Students enrolling in this course will complete 50 hours of community service with an approved organization or agency and will meet regularly to reflect on their service. The focus of the service, readings and discussions in CSTE II are based on two concepts of civic engagement - serving and giving. Service, including public or community service, has the unusual feature of serving at least two different ends: service expressly benefits those served but at the same time benefits the servant as well (Davis & Lynn, 2006). For the first half of this section the readings and discussion will consider both kinds of benefits--the benefits to the server and those served. The focus of the second half of this section will look at the experience of giving. Very often we give gifts that fill us with joy and other times we have given gifts that lead us to resentment and regret (Davis & Lynn, 2006). Much of the time the act of giving and receiving leads us to question the act itself. "Should I have given that man on the street that dollar?" (Davis & Lynn, 2006). The readings and discussion in this section will explore the motives of the human experience of giving. Prerequisite: CE 250 or consent.

CE 351 Community Service Transformational Experience III - Leading (1)

Students enrolling in this course will complete 50 hours of community service with an approved organization or agency and will meet regularly to reflect on their service. Leadership, in most cases, is not something one learns or even prepares for—more often it sneaks up on you. One day you find yourself in charge, creating the experience of others, for better or worse. You look up one day and you are a teacher, a coach, a program director. You may have stepped up because of an event in your community, organized a group in response to that issue and now you are in charge. What do you do? How do you lead? (Davis & Lynn, 2006). The readings in this section do not answer these questions, but rather through discussion may help ease the burden and improve the leadership experience. Prerequisite: CE 350 or consent.

CE 391 Social Change and Political Activism (3)

This course is designed to familiarize students with mobilizing and development of issue campaigns. The content of the course will focus on an understanding of social action, change and advocacy. Organizing a campaign refers to a particular form of community participation in which "grassroots" people learn techniques to share in power. This implies that the model will focus on recruiting grassroots membership and targeting systems for change. The methods may include collaborative problem solving, strategic planning and confrontation. Targets for change may be individuals, systems, institutions, and policies.

CE 400 Civic Engagement Practicum (3)

Students enrolling in this course will complete 300 hours of community-based service over the course of one year. Students will participate in a monthly seminar to reflect on the issues facing the community while exploring solutions to identified problems. This course can be taken as an alternative to the three one credit hour Community Service Transformational Experience Seminars (CE 250, CE 350 and CE 351). Prerequisite: CE 251

CE 401 Civic Engagement - Poverty Studies Capstone (3)

The Civic Engagement-Poverty Studies Capstone will involve students in Community Based Research (CBR) to solve problems of various community organizations. Students will come from different majors and will play a role in selecting the topics for focus through negotiation with Community Partners. They will share perspectives of their major disciplines as well as their varied experiences in the field thus ensuring the interdisciplinary nature of the inquiry. Students will engage in various ways with poverty-related programs, communities, and experts to address research needs identified by Center affiliated Community Partners. Students will produce a final research paper and will be expected to present their research in a public venue such as a conference, Apeiron or the WTE Day of Transformation. Prerequisites: CE 250 and CE 251, CE 350, CE 351, or CE 250 and CE 400, or Approved Practicum experience or instructor consent.

Computer Information Science (CM)

CM 100 Basic Computer Concepts & Applications (3)

This course is for the student who has little or no knowledge of how to use a computer. General computer education designed to provide students with basic computing and Internet knowledge and skills needed to understand, use, and analyze the application of computers in a world engulfed with technology. This course does not apply toward CIS departmental major requirements. Prerequisite: None

CM 101 Computer Concepts and Applications (3)

Overview of computer hardware, software, applications, and social implications. Emphasis on computer literacy, basic tools and applications to access resources on the Internet, and hands-on experience. The course provides an introduction to word processing, spreadsheet, database, and presentation software, and an introduction to emerging technologies. This course does not apply toward CIS departmental major requirements. Ability to key at least 30 wpm strongly recommended. Prerequisite: None. **(General Ed Natural Science. Information Literacy and Tech.)**

CM 105 Introduction to Computer Science (3)

This course is designed to provide students with a broad perspective of the field of Computer Science, from core issues and concepts inherent to the discipline of computing, to the various sub-disciplines of computer science, and the related ethical issues. Topics include coverage of the various layers of computing including: data, hardware, software, operation systems, applications, and communications. Prerequisite: MA 112 or MA 116, or concurrent enrollment.

(General Ed Natural Science. Information Literacy and Tech.)

CM 111 Introduction to Structured Programming (4)

Establish the basic logic foundation for computer programming. Examine programming paradigms, algorithm development, and object-oriented techniques. Study the syntax and semantics of a higher level language. Design and implement algorithms to solve problems using structured data types. Three credit hours of lecture and a weekly two hour laboratory session. Prerequisite: A grade of C or better in MA 116 (or higher Math Class) or concurrent with MA 116 or an ACT Mathematics score at or above 25 or equivalent knowledge as determined by the CIS Department.

CM 113 Visual Programming (3)

This course will present the fundamentals of programming in a visual programming language. The syntax and semantics of a visual programming language will be presented. The fundamental concepts of the design and implementation of object oriented event driven programming and interactive graphic user interfaces will be covered. The particular visual programming language may vary from course offering to course offering but the language will be specified in the course title listed in the course schedule of the semester the course is offered. Prerequisite: CM 105 or CM 111.

CM 121 COBOL Programming (3)

An introduction to programming typical business applications in COBOL. Emphasis on the fundamentals of structured program design, coding, testing, and documentation. Prerequisite: CM 111.

CM 130 Web Development I (3)

An introduction to basic web development using HTML, cascading style sheets and elementary JavaScript. The emphasis will be on creating well-designed, full-featured web pages that are easy to use and maintain and follow the latest standards. Prerequisite: CM 101 or declared CIS major.

CM 170 FORTRAN Programming (3)

Analysis, design, documentation, coding, and testing structured programs written in the FORTRAN language. Prerequisites: CM 111 and MA 116.

CM 203 Digital Forensics I (3)

An introductory course in digital forensics including an overview of computer and network architecture, security issues of Windows, Mac and Linux operating systems, use of command-line and open-source tools and the basics of cryptography. Prerequisite: MA 116

CM 231 Computer Organization/Assembler Language (3)

Introduction to logical computer organization and architecture. Topics include: Machine level representation of data, Assembly level machine organization, Memory system organization and architecture, Interfacing and communications, and Functional organization. Prerequisite: CM 111.

CM 244 C Programming Language (3)

An introduction to the C programming language and the use of C for applications. All aspects of the C language will be covered including syntax, data types, control structures, operators, data structures, pointers, and file input/output. Prerequisite: CM 111.

CM 245 Contemporary Programming Methods (3)

A study of programming methodology using an object-oriented language. Topics include design with classes, implementation of basic data structures, recursion, language design and translation, event-driven programming, fundamentals of 2-D graphics, and software testing. Prerequisite: CM 111.

CM 261 Networked Systems I (3)

Theory and practice of networking: Network standards, ISO reference model, switching techniques, and protocols LAN installation and configurations. Prerequisite: CM 231.

CM 298 Special Topics/Non-Majors (1-3)

Directed study in an area of information science at the lower division level. This course does not apply toward CIS departmental major requirements. Prerequisite: Consent of instructor.

CM 299 Special Topics/CIS (1-3)

Directed study in an area of information science at the lower division level. Prerequisite: Consent of instructor.

CM 303 Digital Forensics II (3)

A follow-up course in digital forensics using the tools used by professional digital forensic investigators. File system and networking forensics will be covered. Prerequisites: CM 203

CM 306 File Structures Using COBOL (3)

Design and implementation of file structures commonly accessed in business application programming. Discussion of the function of theoretical data structures which can normally be accessed as pre-existing routines. Topics to be covered include: table and array processing; string processing; sequential, relative, and indexed sequential file organization; linked and inverted lists; stacks and queues; binary trees; full screen handling; embedded SQL for database access. Prerequisite: CM 121.

CM 307 Data Structures & Algorithmic Analysis (3)

An introduction to basic algorithmic analysis and algorithmic strategies. Topics include mathematical analysis of the time/space complexity of algorithms, algorithmic strategies such as greedy algorithms, divide and conquer, and dynamic programming algorithms, the use of graphs, trees, priority queues, and other data structures in algorithmic problem solving, basic computability theory, and proof techniques. Prerequisites: MA 206 and CM 245.

CM 310 Introduction to Operations Research (3)

A study of the techniques and topics that are the foundation of operations research. Topics will include: linear, integer and dynamic programming, queuing theory and project scheduling. Prerequisites: CM 111 and either MA 142 or MA 151 and either MA 145 or MA 301 or consent of instructor.

CM 322 Operating System & Networking Concepts (3)

The basic principles of operating system function and design and an in-depth study of the standard UNIX shells and shell scripting. Topics include: processes and dispatching, kernels, virtual memory, concurrence, multithreading, memory management, file systems and the UNIX shells. Prerequisite: CM 231.

CM 325 Computational Methods (3)

The study of the use of the computer for simulation models. The statistical and mathematical models most commonly used in simulation are discussed. Prerequisite: CM 307.

CM 330 Web Development II (3)

A second course in web development using a scripting language and a database. The student will learn to develop web pages that display dynamic content (i.e. content from a database). More advanced features of JavaScript will be introduced as needed. Prerequisite: CM 111 and CM 130.

CM 331 Computational Intelligence (3)

An introduction to the tools, techniques and problem areas of artificial intelligence. These topics include: knowledge representation and reasoning; search and constraint satisfaction; history and ethical questions; logic and deduction; uncertainty and planning. Prerequisite: CM 307.

CM 332 Data Mining (3)

The study of problem solving through the analysis of data. Topics include ethical issues, input design, knowledge representation, and basic data mining algorithms including decision rules and trees, statistical and linear models, and clustering techniques. Prerequisites: CM 307 and MA 140 or consent.

CM 333 Software Engineering (3)

Study of disciplined approaches to the production of quality software products and an examination of some social and professional issues related to software production and use. Topics covered: software requirements and specifications, lifecycle models, design, validation and evolution of software, project management, CASE tools, as well as social and ethical considerations such as intellectual property, risks and liabilities, and privacy. Prerequisite: CM 307 or CM 335.

CM 334 Modeling with VBA/Excel (3)

This course provides the foundation required to build applications that can be used to model typical decision support applications. Topics include (1) fundamentals of developing applications in Excel and VBA, and (2) discussion of specific DSS applications and enhancements to those applications through the application of VBA. Prerequisites: CM 111 and MA 140

CM 335 Advanced Application Programming & Design (3)

Advanced topics in application programming and design using state of the art design techniques and implementation language. Topics include design and implementation of alternative file structures and supporting data access methods; user interface design and implementation; exception handling. Prerequisite: CM 245.

CM 336 Database Management Systems (3)

Conceptual and physical database design, database implementation, and database systems. Topics include: traditional file management systems versus database systems, information modeling, and alternative data models, such as relational and object oriented, data manipulation, transaction management, integrity and security. Prerequisite: CM 307 or CM 335.

CM 337 Systems Analysis & Design (3)

The life cycle of a systems project and characteristics of systems in general. Information gathering methods, communication techniques, and the nature of the decision making process. Defining logical and physical requirements through the use of various manual and automated (CASE) documentation tools and techniques such as data flow diagrams, entity relationship diagrams, decomposition diagrams, class models, behavioral models, and prototyping. Prerequisite: CM 336.

CM 339 Computer Information Science Research (3)

This course provides students an introduction to issues and challenges in CIS research. Students learn to form research questions, conduct literature review, collect data, use statistical techniques to analyze data, and write a research paper for submission to a CIS journal or conference. Prerequisites: CIS major with Junior Standing, or consent of the instructor.

CM 341 Information Security: Technical Issues (3)

In-depth examination of technical issues associated with information security. The tools and techniques necessary to provide information security will be discussed in class and investigated in the laboratory whenever possible. Risks and threats to information security will also be discussed. Prerequisites: CM 261 and CM 322.

CM 342 Information Security: Managerial Issues (3)

An in-depth examination of the administrative aspects of Information Security and Assurance. This course provides the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent reasonable information security system, with appropriate intrusion detection and reporting features. Prerequisite: Junior standing or consent of instructor.

CM 361 Networked Systems II (3)

Network security and management; encryption and compression algorithms; wireless computing. Special emphasis on the TCP/IP protocol suite as used on the web. Prerequisite: CM 261.

CM 363 Computer Networks (3)

Laboratory study of information and procedures needed to build and administer a TCP/IP network and preparation for the Certified Network Associate (CCNA) exam. Lab work on configuration of routing and switching equipment using routing and switching protocols. A knowledge of the basics of TCP/IP and desire to use that protocol to build and administer a operational network are assumed. Prerequisite: CM 261.

CM 370 Software Project Management (3)

Exposure to project management software; review of speakers for business area as well as completion of multiple projects using project management software. Prerequisite: CM 307.

CM 390 Special Topics/Computer Information Science (1-4)

Directed study in an area of Computer Science or Information Systems. Prerequisites: Junior standing and consent of instructor.

CM 400 Systems Analysis Internship (1-6)

Systems analysis, design, and programming in an information processing environment. Evaluation of performance will be the joint responsibility of the college and user supervisors. Enrollment requires real promise in the information systems area, a minimum grade point average of 3.2 in computer science courses, and a well rounded background in computer science. Prerequisites: 21 hours in Computer Information Sciences with a minimum of 12 hours earned at Washburn, declared Major in Computer Information Sciences, and consent of instructor.

CM 401 Systems Analysis Cooperative I (1)

Systems analysis, design, and programming in an information processing environment. Evaluation of performance will be the joint responsibility of the college and user supervisors. Consent for enrollment will be granted only to those students who have shown real promise in the computer science area, have a minimum grade point average of 3.2 in computer science courses, and have a well-rounded background in computer science. Prerequisites: 12 hours in Computer Information Sciences earned at Washburn, declared Major in Computer Information Sciences, and consent of instructor.

CM 402 Systems Analysis Cooperative II (1)

Systems analysis, design, and programming in an information processing environment. Evaluation of performance will be the joint responsibility of the college and user supervisors. Prerequisite: CM 401.

CM 403 Systems Analysis Cooperative III (1)

Systems analysis, design, and programming in an information processing environment. Evaluation of performance will be the joint responsibility of the college and user supervisors. Prerequisite: CM 402.

CM 465 Computer Information Science Capstone Project (3)

This course is designed to provide closure for Computer Information Sciences majors. Group projects will be assigned which allow the student to analyze, design, and implement systems. The student will be provided an opportunity to assimilate and synthesize those skills acquired during the course of study for the major. In addition a couple of standardized tests will be administered. Credit/No Credit Only. Prerequisites: CM333 and CM336 or CM307 and 90 hour.

CM 631 Computational Intelligence (3)

An introduction to the tools, techniques, and problem areas of artificial intelligence. These topics include: knowledge representation and reasoning; search and constraint satisfaction; history and ethical questions; logic and detection; uncertainty and planning. Prerequisites: Graduate standing and consent of instructor.

CM 632 Data Mining (3)

The study of problem-solving through the analysis of data. Topics include: ethical issues, input design, knowledge representation, and basic data mining algorithms including decision rules and trees, statistical and linear models, and clustering techniques. Prerequisites: Graduate standing and consent of instructor.

CM 731 Computational Intelligence (3)

An introduction to the tools, techniques, and problem areas of artificial intelligence. These topics include: knowledge representation and reasoning; search and constraint satisfaction; history and ethical questions; logic and deduction; uncertainty and planning. Prerequisites: Graduate standing and consent of instructor.

CM 732 Data Mining (3)

The study of problem solving through the analysis of data. Topics include ethical issues, input design, knowledge representation, and basic data mining algorithms including decision trees, statistical and linear models, and clustering techniques. Prerequisites: Graduate standing and consent of instructor.

Computer Repair & Networking (CRN)

CRN 126 PC Hardware Fundamentals (4)

PC Hardware Fundamentals provides an introduction to the computer hardware skills needed to help meet the requirement for entry-level information and communication technology professionals. The curriculum covers the fundamentals of PC hardware technology, networking, laptop, and printer, operational procedures, and also provides an introduction to advanced concepts in ever growing Computer Technology. Students who complete this course will be able to describe the internal components of a computer, assemble a computer system, install an operating system, and troubleshoot using system tools and diagnostic software. Hands-on labs help students develop critical thinking and complex problem-solving skills.

CRN 136 PC Software Fundamentals (4)

PC Software provides a comprehensive overview of the computer operating system and introduction to advanced concepts. Students who complete this course will be able to install and trouble shoot an operating system using system tools and diagnostic software. Practical application will include connecting computers to the Internet and share resources in a networked environment.

CRN 146 Fund of Computer Networking (4)

This course prepares students with the knowledge and skills to install and configure Windows desktop operating system. The course focus is in four areas: installing, securing, networking, and browsing. At the completion of the course, the student will have installed and configured a Windows 7 desktop OS that is secure, on the network, and ready for browsing.

CRN 156 Network Operating Systems I (4)

This course introduces students to a broad range of Network Operating System (NOS) concepts, including installation and maintenance. The course focus is on Microsoft Windows 2008/2012 operating system concepts, management, maintenance, and the required resources.

CRN 166 Network Operating Systems II (4)

This course introduces students to a broad range of Network Operating System (NOS) concepts, including installation and maintenance. The course focus is on Linux Network Operating System concepts, management, maintenance, and the required resources.

CRN 176 Desktop Operating Systems (4)

This course provides an introduction to operating system basics with the intent of giving a student a deeper understanding of various operating systems. Operating systems covered include Windows 7 through Windows 10 desktop operating systems, Windows Server, UNIX/Linux, and Mac OS X operating systems. Students will learn some networking basics and information involving how to create mixed environments. Advanced configuration and troubleshooting will also be part of this course.

CRN 186 Network Security Fundamentals (4)

This course prepares students to manage security by teaching the fundamentals of cybersecurity.

CRN 221 Intro to Enterprise Networking (2)

These concurrent courses introduce the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of these courses, students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes.

CRN 226 Intro Enterprise Netwrking Lab (3)

These concurrent courses introduce the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundamentals of Ethernet concepts, media, and operations are introduced to provide a foundation for the curriculum. By the end of these courses, students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes.

CRN 231 Routing & Switching Essentials (2)

These concurrent courses describe the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with standard access control lists and Network Address Translation for IPv4 and static and dynamic routing, virtual LANs, inter-VLAN routing, and Dynamic Host Configuration Protocol for both IPv4 and IPv6 networks. Prerequisite: Successful completion of CRN221 and CRN 226.

CRN 236 Routing/Switching Essntls Lab (3)

These concurrent courses describe the architecture, components, and operations of routers and switches in a small network. Students learn how to configure a router and a switch for basic functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with standard access control lists and Network Address Translation for IPv4 and static and dynamic routing, virtual LANs, inter-VLAN routing, and Dynamic Host Configuration Protocol for both IPv4 and IPv6 networks. Prerequisite: Successful completion of CRN221 and CRN 226.

CRN 240 Workplace Skills I (2)

This course prepares students to write and present documents often found in technical settings. Students will create technical summary documents, sets of instructions, technical illustrations, and technical presentations. Students will develop and enhance appropriate workplace appearance and behavior. Prerequisite: Concurrent enrollment in CCNA I and CCNA II.

CRN 241 Scaling Networks (2)

These concurrent courses describe the architecture, components, and operations of routers and switches in larger and more complex networks. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP, EtherChannel, and HSRP in both IPv4 and IPv6 networks. Prerequisite: Successful completion of CRN231 and CRN 236 or valid CCENT certification.

CRN 246 Scaling Networks Lab (3)

These concurrent courses describe the architecture, components, and operations of routers and switches in larger and more complex networks. Students learn how to configure routers and switches for advanced functionality. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP, EtherChannel, and HSRP in both IPv4 and IPv6 networks. Prerequisite: Successful completion of CRN231 and CRN 236 or valid CCENT certification.

CRN 251 Connecting Networks (2)

These concurrent courses discuss the WAN technologies and network services required by converged applications in a complex network. The courses enable students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols, extended and IPv6 access control lists, and Quality of Service (QoS). Students will also develop the knowledge and skills needed to implement common security and monitoring techniques in complex networks. Prerequisite: Successful completion of CRN241 and CRN246.

CRN 256 Connecting Networks Lab (3)

These concurrent courses discuss the WAN technologies and network services required by converged applications in a complex network. The courses enable students to understand the selection criteria of network devices and WAN technologies to meet network requirements. Students learn how to configure and troubleshoot network devices and resolve common issues with data link protocols, extended and IPv6 access control lists, and Quality of Service (QoS). Students will also develop the knowledge and skills needed to implement common security and monitoring techniques in complex networks. Prerequisite: Successful completion of CRN241 and CRN246.

CRN 265 Workplace Skills II (2)

This course prepares students for the documents and skills needed to enter the competitive technical field job market. Students will create and enhance their cover letter and résumé. Interview techniques and job application skills will be developed. Students will learn to identify available professional resources and levels of professional certification. Students will develop and enhance appropriate workplace appearance and behavior. Prerequisite: Concurrent enrollment in Enterprise Networking and Network Technology Application.

Cosmetology (COS)

COS 130 Cosmetology Clinical (1-12)

Cosmetology students who still have contact hours to complete, due to lack of attendance. This is usually after the original contact/credit semesters have ended.

COS 131 Scientific Concepts (1)

This course provides classroom instruction in sanitation, hair and scalp, skin, and nails for as prescribed by the Kansas Board of Cosmetology.

COS 132 Scientific Concepts (2)

This course provides classroom instruction in sanitation, hair and scalp, skin, and nails for as prescribed by the Kansas Board of Cosmetology.

COS 133 Scientific Concepts (3)

This course provides classroom instruction in sanitation, hair and scalp, skin, and nails for as prescribed by the Kansas Board of Cosmetology.

COS 134 Scientific Concepts (4)

This course provides classroom instruction in sanitation, hair and scalp, skin, and nails for as prescribed by the Kansas Board of Cosmetology.

COS 135 Scientific Concepts (5)

This course provides classroom instruction in sanitation, hair and scalp, skin, and nails for as prescribed by the Kansas Board of Cosmetology.

COS 141 Physical Services (1)

This course provides both classroom and clinical instruction in shampoos and rinses, scalp and hair care, facials and make-up, manicuring, pedicures and artificial nail enhancements.

COS 142 Physical Services (2)

This course provides both classroom and clinical instruction in shampoos and rinses, scalp and hair care, facials and make-up, manicuring, pedicures and artificial nail enhancements.

COS 143 Physical Services (3)

This course provides both classroom and clinical instruction in shampoos and rinses, scalp and hair care, facials and make-up, manicuring, pedicures and artificial nail enhancements.

COS 144 Physical Services (4)

This course provides both classroom and clinical instruction in shampoos and rinses, scalp and hair care, facials and make-up, manicuring, pedicures and artificial nail enhancements.

COS 145 Physical Services (5)

This course provides both classroom and clinical instruction in shampoos and rinses, scalp and hair care, facials and make-up, manicuring, pedicures and artificial nail enhancements.

COS 146 Physical Services (6)

This course provides both classroom and clinical instruction in shampoos and rinses, scalp and hair care, facials and make-up, manicuring, pedicures and artificial nail enhancements.

COS 147 Physical Services (7)

This course provides both classroom and clinical instruction in shampoos and rinses, scalp and hair care, facials and make-up, manicuring, pedicures and artificial nail enhancements.

COS 151 Design Services (1)

This course provides both classroom and clinical instruction in basic hair shaping, hair styling, and thermal techniques.

COS 152 Design Services (2)

This course provides both classroom and clinical instruction in basic hair shaping, hair styling, and thermal techniques.

COS 153 Design Services (3)

This course provides both classroom and clinical instruction in basic hair shaping, hair styling, and thermal techniques.

COS 154 Design Services (4)

This course provides both classroom and clinical instruction in basic hair shaping, hair styling, and thermal techniques.

COS 155 Design Services (5)

This course provides both classroom and clinical instruction in basic hair shaping, hair styling, and thermal techniques.

COS 156 Design Services (6)

This course provides both classroom and clinical instruction in basic hair shaping, hair styling, and thermal techniques.

COS 157 Design Services (7)

This course provides both classroom and clinical instruction in basic hair shaping, hair styling, and thermal techniques.

COS 161 Chemical Services (1)

This course provides classroom instruction in Chemical Hair care services. Virgin application, retouch application, foiling techniques, free hand techniques, permanent waving, and chemicals services that are for textured hair, relaxing, and curl reformation.

COS 162 Chemical Services (2)

This course provides classroom instruction in Chemical Hair care services. Virgin application, retouch application, foiling techniques, free hand techniques, permanent waving, and chemicals services that are for textured hair, relaxing, and curl reformation.

COS 163 Chemical Services (3)

This course provides classroom instruction in Chemical Hair care services. Virgin application, retouch application, foiling techniques, free hand techniques, permanent waving, and chemicals services that are for textured hair, relaxing, and curl reformation.

COS 164 Chemical Services (4)

This course provides classroom instruction in Chemical Hair care services. Virgin application, retouch application, foiling techniques, free hand techniques, permanent waving, and chemicals services that are for textured hair, relaxing, and curl reformation.

COS 165 Chemical Services (5)

This course provides classroom instruction in Chemical Hair care services. Virgin application, retouch application, foiling techniques, free hand techniques, permanent waving, and chemicals services that are for textured hair, relaxing, and curl reformation.

COS 166 Chemical Services (6)

This course provides classroom instruction in Chemical Hair care services. Virgin application, retouch application, foiling techniques, free hand techniques, permanent waving, and chemicals services that are for textured hair, relaxing, and curl reformation.

COS 167 Chemical Services (7)

This course provides classroom instruction in Chemical Hair care services. Virgin application, retouch application, foiling techniques, free hand techniques, permanent waving, and chemicals services that are for textured hair, relaxing, and curl reformation.

COS 221 Bus Prctice/Std Specific Needs (1)

This course provides classroom instruction in management practices, salon development, insurance, client records and salesmanship.

COS 222 Bus Prctice/Std Specific Needs (2)

This course provides classroom instruction in management practices, salon development, insurance, client records and salesmanship.

COS 223 Bus Prctice/Std Specific Needs (3)

This course provides classroom instruction in management practices, salon development, insurance, client records and salesmanship.

COS 224 Bus Prctice/Std Specific Needs (4)

This course provides classroom instruction in management practices, salon development, insurance, client records and salesmanship.

COS 231 State Law (1)

This course provides classroom instruction in the Kansas Board of Cosmetology General Laws, Rules and Regulations.

COS 232 State Law (2)

This course provides classroom instruction in the Kansas Board of Cosmetology General Laws, Rules and Regulations.

Criminal Justice (CJ)

CJ 100 Crime & Justice in America (3)

This is an introductory course in the field of criminal justice. It introduces the student to the nature and extent of crime in America and provides a detailed description of the components of the American criminal justice system: police, courts and corrections. In the second portion of the course, the role of the crime victim and the principal functions of criminal justice agencies are considered.

CJ 110 Introduction to Law Enforcement (3)

This course examines the history and major functions of modern law enforcement agencies and personnel. Special attention to career opportunities and alternatives in the field of law enforcement.

CJ 115 Introduction to Forensic Investigations (3)

This course introduces students to forensic science and is a primer to more advanced courses in the field of forensic science. The history of forensic science is explored, with particular emphasis on forensic investigations, as well as the developing and changing nature of the field. The role that forensic science plays within the American Criminal Justice System is a focus of study. The various technologies used are reviewed as are the limitations of forensic science. Prerequisite: None.

CJ 120 Introduction to Corrections (3)

Contemporary correctional activities and the functions performed by correctional agencies and personnel. Includes an overview of the functions performed by correctional institutions and agencies for juveniles and adults.

CJ 130 Public & Private Security (3)

History and philosophy of security, goals and measures of businesses, security firms, military services, and governmental agencies.

CJ 210 Criminal Law (3)

Review of substantive criminal law theory and specific elements common to index offenses will be presented. Course will offer a brief synopsis of the historical development of penal codes, as well as application of the Model Penal Code. Special emphasis will include a review of established defenses to criminal liability such as the insanity, self-defense and diminished mental capacity defenses.

CJ 220 Criminal Justice Communications (3)

Methods of gathering and reporting information essential to effective criminal justice operations are reviewed, discussed, and practiced. Emphasis is on developing effective interviewing skills and accurate reporting of information gathered by criminal justice practitioners.

CJ 225 Jail Workshop (3)

This course provides the student an overview of the history, functions, design and operation of the American jail.

CJ 230 Principles of Investigation (3)

Gathering information; principles and procedures used for crime scene protection and search; collection and preservation of evidence; interviewing and interrogation of complainants, witnesses, suspects, and victims; and scientific applications to a variety of investigations conducted in criminal justice setting.

CJ 235 Traffic Law & Investigation (3)

Provides a basic introduction to the traffic regulation function in modern society with particular emphasis on the impact on technology, judicial decisions, Federal mandates and societal expectations on the enforcement of traffic laws and the investigation of related violations.

CJ 245 Officer Survival (3)

Comprehensive police officer survival seminar designed for basic and in-service police training. Includes examination of the laws regarding use of force, civil and criminal liability, mental conditioning, post shooting trauma, the dynamics of lethal force and other special topics, including biomedical hazards, dealing with gangs and plainclothes and off-duty officer survival. Strenuous physical activity expected. Advise instructors of any medical condition that would prevent involvement in the training.

CJ 250 Patrol Procedures (3)

Provides a comprehensive study of police patrol procedures, beginning with a historical overview of local policing and moves into current patrol practices. Includes presentations of old training films, as available, to allow students to critique early methods with techniques learned. Includes legal issues and their impact on police methods.

CJ 260 Independent Study (1-3)

Criminal Justice majors may pursue an independent research project approved by faculty in consultation with the Department Chair. Independent Study may not be used in place of any courses required of the criminal justice major. Independent Study courses must meet equivalencies to Federal definition of a credit hour. Prerequisites: 6 hours of CJ course work.

CJ 290 Special Topics (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester for variable credit. Prerequisite: Consent of instructor.

CJ 303 Diversity in American Culture (3)

This course is designed to explore the relationship between culture and the criminal justice system. Emphasis is given to understanding the historical, theoretical, and structural perspectives of racial/ethnic and minority groups in society.

CJ 305 Crime & Justice in Film (3)

The course is intended to survey modern America's attitudes about our criminal justice system through analysis of several motion pictures dealing with various facets of the system.

CJ 310 Police Problems & Practices (3)

Analysis of police functions and problems commonly encountered in the performance of those functions. Problem-solving methods and techniques are reviewed, discussed, and practiced. Prerequisite: CJ 110 or consent of instructor.

CJ 315 Drug Abuse & Criminality (3)

Societal reaction to drug abuse in terms of legal sanctions, treatment alternatives, and the criminal justice response (law enforcement, the courts, corrections). How substance abuse and criminal behavior are interrelated.

CJ 318 Juvenile Justice (3)

This course provides an overview of the American Juvenile Justice System, including theories and measurements of juvenile offending; the roles and relationships of law enforcement, courts, probation and parole, diversion programs, service agencies, and correctional institutions. Prerequisites: CJ 100.

CJ 320 Correctional Treatment Strategies (3)

Treatment strategies employed in adult and juvenile corrections programs, focusing on classification, types of institutional programming, as well as community and aftercare facilities. Prerequisite: CJ 120 or consent of instructor.

CJ 323 Serial Killers (3)

This course will review the methods used by criminal justice agencies to identify and track serial killers, examine various aspects of this particular criminal profile and review the impact of such criminal activity on our society. Case studies of convicted serial killers will be used to demonstrate the various factors that influence the development of this abnormal criminal mind. Prerequisite: None.

CJ 324 Evidenced Based Corrections (3)

This course is designed to explore best practices in corrections that are based on research. Emphasis is given to studying the findings from program evaluations to better understand EBP that have reduced recidivism and enhanced public safety. Prerequisites: CJ 120.

CJ 325 Applied Criminology (3)

Applied criminology will examine various criminological theories including delinquent subculture, differential association, and conflict theories, and their application by criminal justice professionals. In addition, the student will understand and practice the application of criminological theory in dealing with an individual offender.

CJ 330 Judicial Process (3)

Historical development and contemporary structure of state and federal trial courts and courts of appellate review will be presented. Constitutional and statutory authority for courts, court procedure, and defendant rights in the judicial process will be reviewed to include due process, public and speedy trial, jury composition, self-incrimination, punishment and state and federal post-conviction relief and/or appellate review. Other statutory and administrative/regulatory laws will be reviewed pertaining to the Code of Professional Responsibility as it applies to respective judicial officers. Close analysis is offered of the respective roles, duties performed, and career paths for judicial officers such as judges, prosecutors and defense counsel.

CJ 332 Law of Corrections (3)

This course is designed to explore the law of corrections by providing an in-depth examination of the court system with particular focus on prisoners' post-conviction rights. Topics covered include the various sources of correctional law, prisoners' statutory and constitutional rights, potential liability for corrections employees, and other controversial legal issues in corrections. Prerequisites: CJ 120.

CJ 337 Sex Offenders (3)

This course concerns sex offenders, sexual offending behavior and the policy responses of this type of crime. The course will cover "typical" sex offender characteristics, at least as much as the behavior can be typified. It will investigate the nature and procedure of sexual offending behavior. Policy targeted toward preventing or curbing behavior will also be explored. Prerequisite: None.

CJ 340 Crime Prevention (3)

Situational crime prevention, environmental design, physical security measures, defensible space, opportunity theories, crime displacement, rational choice theory, and crime prevention studies. Prerequisite: CJ 130 or consent of instructor.

CJ 342 Capital Punishment in America: The Death Penalty (3)

An overview of capital punishment in America with specific application to Kansas. The course covers different philosophical and religious positions on the death penalty; pro and con arguments related to retribution, deterrence, and incapacitation; the relative costs of the death penalty vs. permanent incarceration; innocent people on death row, discrimination, and arbitrariness in the application of the death penalty; and the role of judges, prosecutors, defense attorneys, juries, and witnesses in death penalty cases. Prerequisite: CJ 100 or consent of instructor.

CJ 345 Homicide (3)

An in-depth examination of homicide investigation and the tools required to bring the case to a successful completion. Prerequisite: CJ 110 or CJ 115, or consent of instructor.

CJ 350 Legal Issues in Security and Safety (3)

Civil and criminal liability of security officers and employers, security laws of arrest/search/seizure, security regulations, security licensing and training, OSHA standards and legal requirements, and case studies. Prerequisite: CJ 130 or consent of instructor.

CJ 352 Firearms Decision Making (3)

Firearms decision making provides students with the opportunity to examine the legal aspects of police use of force incidents. During the course students will learn about firearms and the proper safety, usage and storage of weapons. Each student will be provided the opportunity to use the Firearms Training System (FATS) and the simmunitions weapons system and experience split second decision making in a use of force incident. Finally, student will study the basic preparation for dealing with critical incidents and the aftermath of a shooting incident. An additional fee is associated with this course. Prerequisite: CJ 100 or consent of instructor.

CJ 355 Women in Criminal Justice (3)

An overview of the theories and facts on female criminality, employment practices and on-the-job problems that affect female criminal justice workers, and factors relative to female victims of crime.

CJ 360 Independent Study (1-3)

Criminal Justice majors may pursue an independent research project approved by faculty in consultation with the Department Chair. Independent Study may not be used in place of any courses required of the criminal justice major. Independent Study courses must meet equivalencies to Federal definition of a credit hour. Prerequisites: 6 hours of CJ course work or consent.

CJ 362 Human Trafficking (3)

An advanced undergraduate course that focuses on contemporary human trafficking and slavery. Types of trafficking and slavery to be covered include sex trafficking, bonded labor, forced labor, child soldiers, chattel slavery, and domestic servant slavery. The contributing roles of the state, organized crime, the media, culture, and corruption will be examined. Debates about defining trafficking and the connection between sex trafficking and prostitution will be reviewed. Course materials may include testimonies and autobiographies by survivors, research reports, theoretical essays, policy statements, expert testimonies, podcasts and videos. Prerequisite: Junior Standing or permission of the course instructor.

CJ 364 Homeland Security (3)

This course will provide an introduction and general overview of homeland security in the United States. The course will focus on helping students understand the key elements of homeland security strategies and operational policies. The role and purpose of homeland security strategy will be evaluated in regard to its implementation in a contemporary democratic society. Prerequisite: None.

CJ 365 Police & the Community (3)

Relevant literature and the scope of the problem, psychological and sociological considerations; and viable programs that effectively improve communications between the police and the public. Prerequisite: CJ 110 or consent of instructor.

CJ 367 Firearms and Tool Mark Examination (3)

This course will provide an understanding of the history and scope of firearms and toolmark examination as well as introducing students to basic methods of firearms and tool mark identification and examination. An emphasis will be placed on the use of this type of evidence as a means of facilitating effective crime scene investigations. The theory of firearms and tool mark evidence identification will be discussed as students are able to develop a better understanding of the scientific method and how it is applied to criminal investigations. Prerequisite: CJ 115 or consent of instructor.

CJ 368 Introduction to Bloodstain Pattern Analysis (3)

This is the first of two courses in Bloodstain Pattern Analysis (BPA). Each course will cover different aspects of BPA. In combination, the two courses will meet all the requirements of the International Association of Bloodstain Pattern Analysis (IABPA) Basic BPA Course. BPA is an investigative tool utilized by forensic scientists, crime scene technicians and investigators to identify bloodstain patterns at a crime scene, which may assist in reconstructing events. This course will introduce students to bloodstain pattern identification and analysis. Attention will be focused on how bloodstain analysis can be used to help facilitate criminal investigations. Prerequisite: CJ 115 or consent of instructor.

CJ 369 Advanced Bloodstain Pattern Analysis (3)

This is the second part of two courses in Bloodstain Pattern Analysis (BPA). Each course will cover different aspects of BPA. In combination, the two courses will meet all the requirements of the International Association of Bloodstain Pattern Analysis (IABPA) Basic BPA Course. BPA is an investigative tool utilized by forensic scientists, crime scene technicians and investigators to identify bloodstain patterns at a crime scene, which may assist in reconstructing events. Prerequisite: CJ 368.

CJ 370 Fire Investigation and Prevention (3)

Examines the principles of fire investigation, burn patterns, arson, fraud, industrial and commercial fire prevention, hazard recognition, fire control and suppression methods. Prerequisite: CJ 115 or consent of instructor.

CJ 375 Forensic Psychological and Criminal Profiling (3)

This course introduces students to the diverse ways in which the forensic psychologist participates in the legal system. Particular attention is given to the role of the forensic psychologist in criminal proceedings as it relates to the state of mind of the offender. The course also introduces students to basic theories of criminal profiling and ethical considerations in the use of profiling. Prerequisite: CJ 110 or CJ 115, or consent of instructor.

CJ 380 Terrorism (3)

An exploration of the incidence and threats of terrorism and an investigation of the security and law enforcement measures needed to combat it. Topics such as assassination, kidnapping, hijacking, extortion, sabotage, bomb threats/searches, hostage negotiations, victims' survival, and medical/tactical reaction teams will be discussed as they relate to executive protection and terrorism.

CJ 382 Security Technologies (3)

This course provides an overview of the technologies used by security professionals and criminalists working in public safety. Emphasis is given to methods of assessing public and private security threat and managing security protection in government and industrial agencies, and digital, cyber and protective services. Prerequisites: CJ 130.

CJ 390 Special Topics (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester for variable credit. Prerequisite: Consent of instructor.

CJ 395 Seminar in Metropolitan Criminal Justice (3)

An overview of the functions, interrelations and problems of metropolitan law enforcement, judicial and correctional agencies is provided through lectures, assignments and agency visitations. Usually conducted in the Kansas City metropolitan area over a five-day period. Prerequisite: Consent of instructor.

CJ 400 Criminal Justice Research Methods (3)

This course allows students to learn and demonstrate knowledge of research methodology within the criminal justice system and become acquainted with the range and scope of quantitative and qualitative tools available to the criminal justice researcher. Prerequisite: 12 hours Criminal Justice or consent of instructor.

CJ 401 Criminal Justice Ethics (3)

An advanced exploration of the field of ethics as specifically applied to the criminal justice field. Theoretical ethics will be examined alongside a pragmatic and applied focus on the application of these ethical principles in a contemporary criminal justice professional environment. Prerequisite: None.

CJ 410 Criminal Procedure and Evidence (3)

Advanced analysis of the constitutional statutory foundations of modern criminal procedure will be emphasized, with particular focus on the 4th, 5th, and 6th Amendments. The law of search and seizure, interrogations and confessions, warrants, indictment/information, pretrial suppression and exclusionary rule applications will be presented. Rules pertaining to obtaining, qualifying and admitting evidence will be discussed, to include direct and cross examination, application of the hearsay rule, recognized privileged communications, and common evidentiary objections will be offered in the criminal prosecution/defense perspective.

CJ 415 Advanced Forensic Investigations (3)

Examines the role of forensic science in the investigation and solution of crime. Each type of physical evidence normally encountered in criminal investigation is studied with regard to collection and packaging techniques which maximize evidentiary value, the current types of scientific analyses available, and the significance and limitations of the scientific results. The history of forensic science is also briefly examined. Prerequisite: CJ 115 or consent of instructor.

CJ 416 Forensic Applied Science Laboratory (3)

This skills application course is designed to complement CJ 415 Forensic Investigations in Criminal Justice. Emphasis is given to the application of forensic investigation techniques and practices related to the preservation of evidence and the processing of crime scenes, including: processing latent prints, gathering trace evidence, documenting firearms and toolmarks evidence, and the collection of illicit drugs. Preparations for court testimony and presentation of evidence in court proceedings are covered. This course must be taken the same semester as CJ 415. Prerequisite: CJ 115 or consent of instructor.

CJ 417 Probation, Parole and Community Based Corrections (3-6)

Crime scene investigation internships are created for CSI students to put their classroom-learned skills to real-life applications. Moreover, having an on-the-job training under a crime scene investigation unit will expose you to different specializations of your career choice such as photography skills at crime scenes; this way, you can choose which aspect of a CSI job to concentrate on. This internship requires summative reflection, serving as a culminating experience for Bachelor's degree students. Prerequisites: CJ 115, CJ 415, and Consent of Instructor.

CJ 420 Probation, Parole And Community Based Corrections (3)

Probation and parole, including the administration, procedures, and techniques used in the treatment and supervision of offenders. Also, the history and trends of probation and parole, and professional training in these fields. Prerequisite: CJ 120 or consent of instructor.

CJ 425 White Collar Crime (3)

Occupational crime, fraud, theft, computer crimes, environmental crimes, business and governmental crimes, and prevention measures. Prerequisite: CJ 110 or consent of instructor.

CJ 440 Enforcement Administration (3)**CJ 445 Drug Enforcement Policies and Programs (3)**

The role in establishing alcohol and other drug policy and the development of regulation for the implementation of federal policy. Officials from federal, state, and local agencies describe agency functions and effects at addressing the drug problem. The course will also examine the impact of federal drug policy at the local level. Prerequisite: CJ 110 or consent of instructor.

CJ 455 Criminal Justice Administration (3)

This course provides an overview of the basic functions of criminal justice agency management and administration, including activities such as planning, forecasting, budgeting, organizing, training, evaluating and directing personnel. The special requirements for the administration of criminal justice agencies and facilities such as building public support, communicating results, informing policy decisions, maintaining transparency, and interacting with other criminal justice agencies are explored. Case studies from a variety of criminal justice settings including law enforcement, corrections, and courts are analyzed to enhance understanding of management and administrative complexities. Prerequisite: None.

CJ 465 Criminal Justice Planning (3)

Criminal Justice planning, including analysis of crime data and systems interrelations, forecasting, problem identification, establishing goals and objectives, and developing plans for implementation and evaluation.

CJ 470 Internship in Security (3-6)**CJ 475 Police Experience (3)**

Travel to law enforcement agencies, guest lectures and class discussion. Prerequisite: CJ 110 or consent of instructor.

CJ 485 Internship in Criminal Justice (3-6)

Supervised observation & participation in the functions of a federal, state, or local criminal justice agency. Assignment supervision is received from experienced agency personnel and an orientation to agency operations is provided. Students may participate in specific law enforcement, corrections, forensic investigation, and/or security administration activities. The criminal justice internship may be taken in one semester or over the course of two semesters. Experience may be concentrated in one agency or divided among more than one agency. Placement and continuation in the internship requires approval of the criminal justice agency where the student completes their internship experience. This internship requires summative reflection and serves as a culminating experience for criminal justice students. Prerequisite: Permission of the course instructor.

CJ 495 Correctional Experience (3)

Impact course designed to provide the student with the opportunity to "experience" the correctional institution and draw a unique insight into corrections. Students visit correctional institutions, observe their operations, and interact with correction practitioners and confined offenders. Institutions have been chosen for visitation to provide the student with as broad a correctional experience as possible, beginning with juveniles through adults, including county, state, and federal institutions. Prerequisite: CJ 120 or consent of instructor.

CJ 499 International Travel Experience in Criminal Justice (1-3)

This course will provide students with an opportunity to earn course credit for participation in educational travel opportunities. These opportunities will incorporate elements of both travel and education, providing students with an applied opportunity to learn as they explore different locations. Prerequisite: Permission of the course instructor.

CJ 600 Seminar in Criminal Justice Systems (3)

This is a professional graduate seminar designed to engage the first-semester criminal justice graduate student in the analysis of the array of issues in the process of justice administration. Criminal Justice system operations are reviewed, and key issues impacting criminal justice theory and practice are explored. Prerequisite: Admitted to MCJ program or permission of MCJ Program Coordinator.

CJ 602 Criminal Justice Research (3)

The student will be able to develop and implement basic research designs and interpret findings. Both qualitative and quantitative methods will be examined. Instruction and application will focus upon criminal justice issues and the impact of criminal justice research upon the profession. Prerequisite: Admission to MCJ program or permission of MCJ Program Coordinator.

CJ 603 Issues in Criminal Procedure (3)

Current significant issues in criminal procedure will be addressed. Emphasis will be placed upon significance of recent judicial decisions to both enforcement and corrections. Additionally, the relationship between the judiciary and the other segments of the criminal justice system will be examined. Methods for conducting legal research will be examined. Prerequisites: Admission to MCJ program or permission of MCJ Program Coordinator.

CJ 604 Seminar in Criminal Justice Organization and Management (3)

This course will address the application of organizational, administrative and management principles in law enforcement, courts, and corrections. The course will examine issues in organizational structure, administration, problem solving, planning, and budgeting. Prerequisite: Admitted to MCJ program or permission of MCJ Program Coordinator.

CJ 605 Ethics in Criminal Justice (3)

The course will evaluate issues of professionalism and ethical behavior within the criminal justice profession. Key issues examined will include professional behavior of the individual and the agency. Current topics, such as sexual harassment, accreditation, and maintenance of standards, and community relations will be significant topics of focus. Prerequisite: Admission to MCJ program or permission of MCJ Program Coordinator.

CJ 610 Corrections in the United States (3)

This course will study the policies that affect modern correctional agencies in the United States. Corrections will be examined from a historical prospective to provide a benchmark for the analysis of current and future trends. Prerequisite: Admitted to MCJ program or permission of MCJ Program Coordinator.

CJ 620 Role of Law Enforcement in the United States (3)

Policies and human issues affecting law enforcement agencies in the United States will be addressed. Law enforcement will be examined from a historical prospective with analysis of current activities and expected future trends. Prerequisite: Admitted to MCJ program or permission of MCJ Program Coordinator.

CJ 625 Seminar In Criminological Theory (3)

Theories of crime causation and criminal behavior are discussed and researched. Theories are traced from the 1700's through modern times. Prerequisite: Admitted MCJ program.

CJ 630 Seminar in Correctional Administration (3)

The course will develop students' capacity to develop and evaluate policies and procedures in all parts of the correctional administration arena. Judicial decisions which impact the legal status of the operation of correctional institutions and offender confinement will be examined. Prerequisite: Admitted to MCJ program or permission of MCJ Program Coordinator.

CJ 635 Organized and White Collar Crime (3)

This course examines organized crime, white collar crimes, and gang activity in the United States. Focus will be on the historical development of these criminal patterns with an evaluation of current activities as well as proposed intervention theories. Prerequisite: Admitted to MCJ program or permission of MCJ Program Coordinator.

CJ 640 Seminar in Legal Issues in Law Enforcement (3)

Current significant issues in enforcement administration will be addressed. Emphasis will be placed upon significance to federal, state, and local enforcement administrators, their agencies, and their communities. Prerequisite: Admitted to MCJ program or permission of MCJ Program Coordinator.

CJ 645 Comparative Criminal Justice Systems (3)

This course studies the criminal justice systems of four to six major countries. Each country's different philosophical and practical approaches to criminal justice will be evaluated and compared. Field study will be utilized when possible. Prerequisite: Admitted to MCJ program or permission of MCJ Program Coordinator.

CJ 650 Seminar in Community Corrections (3)

The course will examine the traditional practices of probation and parole, as well as newer community methods. The major focus will be on the organization and integration of community-based programs into the modern criminal justice system. Prerequisite: Admitted to MCJ program or permission of MCJ Program Coordinator.

CJ 655 Seminar in Juvenile Justice And Delinquency (3)

This course addresses delinquency prevention policies, investigation of juvenile crime, dispositions of offenders, and judicial waiver issues. The Seminar also examines the roles and interaction of juvenile agencies' operations and the administrative challenges to them as well as a review of the due process considerations mandated by courts. Prerequisite: Admitted to MCJ program or permission of MCJ Program Coordinator.

CJ 660 Seminar in Operational and Staff Planning (3)

This course will examine principles and practical applications of operational and staff planning as applied to law enforcement agencies. Emphasis will be placed on the development and implementation of organizational goals and objectives, strategic, and tactical planning and operational needs assessment. Prerequisite: Admitted to MCJ program or permission of MCJ Program Coordinator.

CJ 670 Seminar in Correctional Law (3)

This course studies correctional law as related to probation and parole, juvenile and adult institutions, local jails, legal liabilities, and legal research. Prerequisite: Admitted to MCJ program or permission of MCJ Program Coordinator.

CJ 675 Problems & Practices in Judicial Administration (3)

In this course, students will examine the problems that face judicial administration and how those problems affect other elements of the criminal justice system. Prerequisite: Admitted to MCJ program or permission of MCJ Program Coordinator.

CJ 680 Seminar in Staff Development (3)

This course examines the role of staff development in the management of human resources in criminal justice, and effective staff development methods and techniques. Emphasis will be placed on training and human resources development in criminal justice, organizationally determined outcomes, training needs assessment, performance standards, and assessment. Prerequisite: Admitted to MCJ program or permission of MCJ Program Coordinator.

CJ 685 Special Topics - Criminal Justice (1-3)

These courses offer an opportunity for students and faculty to explore topics of contemporary or historical interest that are not covered in regular course offerings. Prerequisite: Admitted to MCJ program or permission of MCJ Program Coordinator.

CJ 690 Directed Readings - Criminal Justice (1-3)

This course provides students with an opportunity to conduct an in-depth exploration of literature related to a particular criminal justice topic. Consent from the supervising professor is required. Directed readings courses must meet the Federal definition of a credit hour. Prerequisite: Admitted to MCJ program and Instructor consent or permission of MCJ Program Coordinator and instructor permission.

CJ 692 Analytical Research and Statistics (3)

Statistical methods and computer applications are covered as they relate to survey research, agency evaluation, and content analysis. Qualitative methods are also taught and include field methods, historical research, and legal bibliography. Prerequisite: Admitted to MCJ Program and CJ 602 or permission of MCJ Program Coordinator.

CJ 693 Capstone Experience (3)

A Capstone course is a graduate course that typically serves as a comprehensive assessment of the knowledge and skills of a graduate student in the major field of study. It is usually completed at the end of the degree program. This Capstone course is a self-directed, integrated, learning opportunity. It is designed to integrate and synthesize all coursework in the criminal justice graduate program and related areas so the student has a broad conceptual and practical understanding of the criminal justice career field. Prerequisite: Admitted to MCJ program, 24 hours of coursework completed (including all core coursework), and Instructor permission.

CJ 699 Thesis (1-6)

This course may be directed by any member of the criminal justice graduate faculty who accepts responsibility for supervising the thesis. The thesis topic must be pre-approved by the faculty advisor who serves as the student's graduate committee chair. The student normally conducts original empirical research which involves the collection and analysis of new data, or re-analyzing existing data to arrive at certain conclusions. The written Thesis report is submitted to the student's Thesis Committee for evaluation and approval. An oral defense of the Thesis is required for graduation. Prerequisite: Admitted to MCJ program, 24 hours of MCJ coursework (including all core coursework), and instructor permission.

CJ 777 Continuous Enrollment (1-3)

This course is to allow students additional time to complete Capstone, Thesis or Practicum requirements. Prerequisite: Instructor permission.

Culinary Arts (CUA)

CUA 100 Culinary Math (4)

This course develops students' math skills that are vital to the food service industry. These skills include working with conversions of weights, measuring and calculating food cost, portion costs, labor control, and portion control which are all vital skills in becoming a great chef.

CUA 110 Sanitation/Safety (3)

This course covers sanitation and food safety by instructing the students on the regulations imposed by the State of Kansas Food Code that must be followed during the production of food for consumption by the public. It is a prerequisite to all other courses in the culinary arts program. Successful completion of the course will provide the student with methods of controlling the spread, growth, and elimination of bacteria and other food borne pathogens, as well as controlling physical contamination threats to foods. The student will also be able to perform safely in all areas of kitchen operations including the lifting and transporting of food and equipment, and have an awareness of safely handling hazardous materials along with knowledge of fire awareness, suppression, and avoidance, as well as avoidance of burns and lacerations. Safe equipment operation, maintenance, and cleaning are explained and no student is allowed to operate any power equipment until having its operation demonstrated by the instructor. Proper knife selection and handling is explained and demonstrated by the instructor. Sanitation and safety are continually brought by and related to current activities throughout the length of the program.

CUA 120 Basic Cooking Principles (5)

This course covers the most basic and some of the most important concepts in culinary arts profession. This course is a prerequisite for all later courses in the program. Upon completion of the student will have full vocabulary of cooking terminology and be able to identify the moist and dry heat methods of heat transfer as well as how equipment and materials provide heat and affect the cooking process. The student will be able to identify the components of recipes as well as how to read, interpret, price, and convert them. The student will be capable of utilizing the various ways product in the kitchen are measured and portioned along with the economic ramifications of proper implementation of these skills. Topics also include menu design and the factors involved in it along with the basic nutritional considerations and terminology that relate to it. Students also will be conversant on kitchen organization, prioritization of tasks, and time management in the face of deadlines. Students will use basic preparation tasks and knife skills. This course includes lecture, demonstration, and lab opportunities to apply knowledge and skills in food preparation.

CUA 128 Food Prep 1-A (3)

This course presents relevant information and training about standard commercial and institutional food preparation as it relates to the preparation of stocks, sauces, and soups. Upon completion, the student will be able to identify the ingredients and methods of production of stocks, reductions, and glazes. They will be capable of classifying and preparing sauces, thickening agents used, sauce families, production methods, finishing techniques, and producing and classifying soups. This course includes lecture, demonstration, and lab opportunities to apply knowledge and skills in food preparation.

CUA 130 Food Prep I (6)

This course presents relevant information and training about standard commercial and institutional food preparation as it relates to the preparation of stocks, sauces, soups, and red meats. Upon completion, the student will be able to identify the ingredients and methods of production of stocks, reductions, and glazes. They will be capable of classifying and preparing sauces, thickening agents used, sauce families, production methods, finishing techniques, and producing and classifying soups. The student will understand the composition, structure, and quality factors involved in utilizing red meats. Topics such as the basic cuts available and carcass structure, as well as selection of the various market forms available and an overview of cooking methods as it relates to tenderness and methods of determining doneness of meats will be explored. This course includes lecture, demonstration, and lab opportunities to apply knowledge and skills in food preparation.

CUA 135 Food Prep II (6)

This course presents relevant information and training about standard commercial and institutional food preparation as it relates to the understanding and preparation of poultry, seafood, and vegetables. Upon completion, the student will conversant in the composition and classification of poultry, seafood, and vegetables. The student will be able to properly handle, butcher, prepare, and determine doneness of these products. This course includes lecture, demonstration, and lab opportunities to apply knowledge and skills in food preparation. This is a 6 credit hour intermediate level course consisting of 45 hours of classroom work and 90 hours of lab experience.

CUA 210 Basic Management Skills (3)

This course introduces the student to the nature of food service management philosophy. It gives the student an overview of management goals in the industry. Cost and sales concepts are discussed along with control processes. Cost, volume, and profit relationships are also examined along with customer service concepts are examined as well. Students will have hands-on experience with scheduling, conducting inventory, along with menu development and costing.

CUA 215 Food Prep III (5)

This course presents relevant information and training relating to commercial and institutional preparation of vegetables, potatoes, legumes, pastas, and other starches, along with salads and dressings. The student will be able to use various preparation methods in order to control changes in the color, flavor, texture, and nutritional content of these products. Topics included are the vegetarian diet as well the preparation of the various types of salads, dressings, and the types of emulsions involved in preparing them. This course includes lecture, demonstration, and lab opportunities to apply knowledge and skills in food preparation.

CUA 220 Workplace Skills (1)

This course utilizes Key Train software to assist in advancement of knowledge. A Level 4 in Applied Math and Reading for Information and a Level 3 in Locating Information Work Keys assessments are required prior to exiting the program. Students will also be required to attend seminars provided through the Career Resource Center. Seminar which includes interview techniques, developing and preparing a resume, completing job applications, ethics, and teamwork.

CUA 230 Food Prep IV (3)

This course presents relevant information and training relating to commercial and institutional preparation of sandwiches, hors d'oeuvres, breakfast preparations, and dairy and cheese products. The student will be able to prepare various common types of sandwiches and canapés, cocktails, relishes, and dips using typical methods. The student will also be able to prepare egg products and custards, dairy and cheese products, and breakfast beverage preparations. This course includes lecture, demonstration, and lab opportunities to apply knowledge and skills in food preparation.

CUA 235 International Cuisine (4)

This course gives students the opportunity to learn about other countries and cuisines from around the world. Students will investigate imports and exports, produce indigenous foods, and apply new cooking techniques from a variety of countries around the world.

CUA 240 Baking Principles I (4)

This course presents relevant information and training relating to commercial preparation of bakery products and ingredients used. This includes discussion of baking formulas and baking percentages. Dough and batter mixing and the information of gluten are covered along with the baking process. Primary ingredients and their use in the bake shop are examined. An initial look at bakery production is made through examining artisan and sour dough breads and the production of lean and rich dough yeast breads.

CUA 245 Baking Principles II (4)

This course presents relevant information and training relating to commercial and institutional preparation of bakery products and ingredients used. This includes the preparation of quick breads, syrups, creams, sauces, pies, pastries, tarts, cakes, cookies, and decorative sugar and chocolate pieces.

Data Analytics (DA)

DA 348 Data Discovery and Management (3)

Students will identify and manipulate data that will provide actionable information to solve business problems. Prerequisite: BU 248, BU 250, and EC 211 (concurrent) or MA 346 (concurrent)

DA 358 Data Methods and Warehousing (3)

Students will learn methods to process a variety of data types (unstructured and semi-structured) and to use technologies that convert, analyze and store large volumes of data. Unstructured and semi-structured data will be converted into information useful for problem solving. Prerequisite: DA 348 and EC 211 (or MA 346)

DA 368 Data Mining and Modeling (3)

Students will learn technologies that can be used to discover relationships among data. These relations can be used to create models used to predict or classify new data. Prerequisite: DA 348 and EC 211 (or MA 346)

DA 478 Data Analytics Applied - Practicum (3)

Students will apply the data analytics process, including data discovery, transformation, organization, and modeling, to a real-world project and to effectively communicate the solutions. Prerequisite: DA 358 and DA 368.

Diesel Mechanics (DEM)

DEM 111 Shop Skills & Safety Fundament (1)

The focus of this course is the ability to safely work with shop equipment commonly found in a diesel servicing and repair facility. Emphasis is using, maintain and servicing shop equipment such as hoists, lifts, safety stands, cranes, presses and grinders. The location and usage of personal protective equipment (PPE) and of common hand tools is included.

DEM 113 Electrical/Electronic Systems (5)

Systems studies the principles of electricity through operations and testing procedures and provides an introduction to electronics. Diagnostics and repair of starting and charging electrical systems are covered, in addition to practical applications of the principles of electricity. Electronic management programs are referenced and studied.

DEM 116 Workplace Skills (1)

Overview and practice of general workplace skills including personal effectiveness, time management, teamwork, and critical thinking in the workplace. The course incorporates skill development in the following three units: overview of diesel technology, workplace communication and customer service, and job application.

DEM 123 Hydraulics (5)

Principles of basic hydraulics, introduction to hydraulics systems: open center, closed center, and pressure and flow compensating type systems.

DEM 134 Scanner Diagnostics (1)

Scanner Diagnostics focuses on the hands-on application of aftermarket diagnostic equipment and tools such as the Snap-on Pro-link and Modis as well as OEM systems utilized by Cummins, CASE and others.

DEM 138 Suspension and Steering (3)

Suspension and Steering addresses the theory, operations and troubleshooting of various steering and suspension system components.

DEM 142 Welding for Diesel (3)

Introduction to basic concepts of general welding; hands-on lab activities to apply knowledge and develop skills in the following areas: shop safety, cutting (oxy/acetylene) SMAW (Shielded Metal Arc Welding).

DEM 143 Brakes (3)

Brakes will cover the theory and operations of hydraulic and air brake systems, teaching troubleshooting, disassembly, inspection and adjustments of hydraulic and air brake systems, including ABS.

DEM 144 Brakes for Construction (2)

Brakes will cover the theory and operations of hydraulic and air brake systems, teaching troubleshooting, disassembly, inspection and adjustments of hydraulic and air brake systems, including ABS. Common braking system utilized on construction equipment are highlighted.

DEM 148 Advncd Electr/Electrnc Systms (5)

Construction machine electrical schematic reading, troubleshooting, diagnosis, and repair of monitoring systems, instrumentation, and other specialized electronic and computer-controlled equipment on CASE Construction machinery and heavy equipment. Students will determine proper use of wiring schematics to troubleshoot electrical systems on light through heavy vehicles.

DEM 150 EST Diagnostics (1)

The CASE EST (Electronics Scan Tool) Diagnostics course on the hands-on application of CASE and aftermarket diagnostic equipment and tools such as the Snap-on Pro-link and Modis as well as OEM systems utilized by Cummins, CASE and others.

DEM 204 Advanced Machine Electrical (4)

Knowledge and skills learned in DEM113 are the foundation for the study of CASE Construction equipment electrical systems such as monitoring systems, instrumentation, lighting and other specialized electronic and computer-controlled systems. Troubleshooting, diagnosis, and repair of these systems is performed utilizing electrical testers, meters, and scan tools such as the CASE EST (Electronic Service Tool). The use of wiring schematics and repair manuals in the diagnosis process is emphasized. Prerequisite: DEM113 Electrical Electronics Systems

DEM 221 Drive Trains (3)

The Drive Trains 1 course will include classroom and/or shop exercises in: characteristics and principles of power trains units. Specific topics include introduction to diesel drive trains, drive shafts, power take-offs, and standard transmissions. Also the procedures in disassembly, wear analysis, and failure analysis. Instruction will be included in these types of transmissions and differentials: Mack, Rockwell Eaton and Dana Spicer. Students will be expected to observe and comply with all safety rules and regulations.

DEM 224 Advanced Hydraulic Systems (3)

Knowledge and skills learned in DEM123 are the foundation for the study of the hydraulic and hydrostatic systems used on CASE construction equipment. Diagnosing and testing to solve system problems; interpretation of fluid hydraulic schematic and diagrams; and electronic and computer-controlled systems are all covered. Prerequisite DEM123 Hydraulics

DEM 230 Brakes Service (2)

The focus of this course is hands-on work on common light, medium and heavy truck hydraulic and air brake systems and components. Basic operating theory is covered at the level required to understand or perform the operation, maintenance, inspection, diagnosis, wear pattern interpretation, failure analysis, reconditioning, disassembly, re-assembly of systems.

DEM 231 Diesel Engines I (5)

Diesel Engines I introduces the theory of operation and the use of the engine's mechanical components; disassembling, inspecting, measuring, reassembling and performing maintenance procedures on diesel engines.

DEM 232 Service Department Implemntatn (3)

Simulation of a service department including diagnostic work, disassembly work, repair work and assembly work on CASE CONSTRUCTION equipment. Students will practice accurate and precise labor documentation.

DEM 238 Suspension & Steering Service (2)

The focus of this course is hands-on work on common light, medium and heavy truck suspension and steering systems and components. Basic operating theory is covered at the level required to understand or perform the operation, maintenance, inspection, diagnosis, wear pattern interpretation, failure analysis, reconditioning, disassembly, re-assembly of systems including a basic alignment. Basic usage of Oxyacetylene equipment is also covered.

DEM 241 Advanced Diesel Engines (5)

Advanced Diesel Engines course will include classroom and/or shop exercises: basic principles of the various engine systems, the disassembly and inspection, reconditioning of component parts to include various fuel systems. In addition, engine diagnosis and maintenance will be discussed and performed in various engine systems. Students will be expected to observe and comply with all safety rules.

DEM 244 Heavy Equipment Operation (2)

Operation and operator-level service and inspection of typical heavy construction equipment such as bulldozers, backhoes, loaders, track hoes, uni-loaders, and off road trucks. Pre-operation inspections, setup, and operational field testing of new and used construction equipment.

DEM 248 Drive Trains II (3)

Drive Trains II builds on the knowledge, skills and abilities obtained in DEM221. Systems utilized in light, medium and heavy truck drive trains including: automatic transmissions, drive axles, procedures in disassembly/assembly, wear analysis, and failure analysis in drive trains, pressure and flow testing of drive train systems, timing of drive train systems, and theory and operation of final drives and shuttles are included. Prerequisite: DEM221 Drive Trains

DEM 250 Engine Performance (2)

Engine Performance covers the engine control and emission control systems such as fuel injection, air induction, exhaust, exhaust gas treatments/filters utilized on light, medium and heavy diesel trucks. Students are introduced to diagnostic equipment and tools such as the Snap-on Pro-link and Modis as well as OEM systems utilized by Cummins, CASE and others.

DEM 252 Power Trains for Construction (3)

Drive trains and components of construction equipment, clutch systems, transaxles, differentials, axles; emphasis on disassembly, reassembly and component identification; pressure and flow testing of powertrains used in construction equipment; calibrations of transmissions, theory and operations of final drives and shuttles. Emphasis: Understanding of operation of mechanical, power shift, power shuttle, S type power shift, and hydrostatic transmissions to include tracking and adjustments.

DEM 268 Aux Power Units/Refrigeration (2)

The function and purpose of Auxiliary Power Units (APUs) that power system when the primary engine is not in use, such as refrigeration units on tractor-trailers, are covered. This course includes basic air conditioning service, diagnostic, and repair on applications used in the diesel field and Section 509 Refrigeration certification by the Mobile Air Condition Society (MACS).

DEM 274 Diesel Preventative Maintenance (3)

This course is designed to prepare students for entry-level jobs as a preventative maintenance diesel mechanic. Preventative maintenance diesel mechanics perform inspections and maintenance on diesel vehicles and equipment doing minor repairs and keeping maintenance records. The course series covers all the basic systems of a vehicle or equipment with an emphasis on preventative maintenance procedures and shop safety.

Economics (EC)

EC 100 Introduction to Economics (3)

Factors determining the general levels of employment and inflation are examined as well as an analysis of markets, prices and production. Current economic problems are used to illustrate these concepts. Not open to students who have credit in EC 200 or EC 201. EC 100 may not be used as a substitute for EC 200 or EC 201.

(General Ed Social Science. Quan and Sci Reason Lit.)

EC 200 Principles of Microeconomics (3)

The fundamentals of price theory. A study of the interaction of markets and decisions made by consumers and firms. Market structure, allocation of resources, and efficiency issues are addressed. Prerequisites: MA 116 (recommended) or MA 112, or higher. (Formerly EC 202)

(General Ed Social Science. Quan and Sci Reason Lit.)

EC 201 Principles of Macroeconomics (3)

Nature and performance of the American economy considered in the aggregate. Topics include the determinants of aggregate output, unemployment, and inflation. Analyses of national income, business cycles, fiscal and monetary policies, and international trade are introduced. Prerequisites: EC 200, MA 116 (recommended) or MA 112, or higher.

(General Ed Social Science. Quan and Sci Reason Lit.)

EC 211 Statistics for Business and Economics (3)

The application of statistical methods to decision problems in business and economics. Topics include sampling distributions and their properties, statistical inference, simple linear and multivariate regression analysis, application of regression and smoothing techniques to time series analysis, analysis of variance, distribution-free and chi-square test procedures, and concepts of statistical quality control. Prerequisites: MA 140, or its equivalent, and MA 116 (or MA 141 or MA 151 or higher), or their equivalents with grades of C or better.

EC 300 Microeconomic Analysis (3)

An in-depth analysis of the behavior of individual economic units and various economic policies is developed, using the tools of price theory and game theory. Prerequisites: EC 200, EC 201, MA 141, and 2.0 GPA.

EC 301 Macroeconomic Theory (3)

A study of the determinants of the level of aggregate income, employment, and prices. Analyses of secular and cyclical changes in economic activity, and of the effects of public policy on aggregate economic experience. Integration of international trade and finance into macroeconomic models. Classical, Keynesian, and Monetarist theories are analyzed. Prerequisites: EC 200, EC 201, MA 141, and 2.0 GPA.

EC 306 Game Theory and Applications (3)

Acquaints the student with concepts and tools of game theory and their use in strategic decision making. Applications of game theory to business, sociology, political science, and evolutionary biology are discussed. Prerequisites: MA 140 and MA 141 or higher.

EC 310 History of Economic Thought (3)

Comparative study of the historical origin, content, and impact of selected schools of economic thought. Emphasis upon tracing evolution of economic theories out of specific historical contexts. Major schools of economic thought from the Greeks through Adam Smith to the present. Prerequisites: EC 200 and EC 201.

EC 313 Industrial Organization and Policy (3)

An in-depth look at market structures and their effect on tactics and strategies of firms. Includes economic analysis of government efforts to regulate and control business activities. Prerequisites: EC 200 and EC 201.

EC 341 Labor Economics (3)

An analysis of the market for labor in the United States. Investigates issues of wage determination, worker productivity, labor supply and demand analysis, employment, and education and training. May include income inequality, discrimination, promotion, compensation, and immigration. Prerequisites: EC 200 and EC 201.

EC 388 Urban & Regional Economics (3)

The location of economic activity for firms, industries and cities used as a base for considering regional growth and decline and urban economic structure, problems, and policies. Prerequisites: EC 200 and EC 201.

EC 403 Special Topics/Economics (3)

Selected topics announced in advance. May be taken more than one semester. Prerequisites will be specified for each topic.

EC 404 Independent Study-Economics (3)

Individual study of an economic problem. Course activity must be supervised by a member of the full-time faculty with professorial rank in the School of Business. Prerequisite: Consent of directing faculty member prior to enrollment.

EC 405 Honors Research in Economics (3)

Restricted to those students seeking to qualify for honors in the major field. The study is designed to provide an intellectual challenge for superior students with a strong interest in scholarship. Course activity must be supervised by a member of the full-time faculty with professorial rank in the School of Business. Prerequisites: Senior major and consent.

EC 409 Introductory Econometrics (3)

An introduction to analysis and its applications. Investigates the use of linear regression models, their standard assumptions, and correction for violation of these assumptions. Special topics may include qualitative explanatory variables, distributed lags, and simultaneous equation models. Prerequisites: EC 200, EC 201, and EC 211 (or MA 343).

EC 410 International Economics (3)

The theory of international trade and international finance. Costs and benefits of international economic interdependence. Discussion of current issues in trade policy and the international economic system. Prerequisites: EC 200 and EC 201.

EC 480 Public Finance (3)

The theory of taxation, public expenditure and fiscal policy. Impact of government financial policies upon resource allocation, income distribution, economic growth, economic stabilization and balance of payments. Foundations for balanced state and local taxation. Prerequisites: EC 200 and EC 201.

EC 485 Money & Banking (3)

The economic principles and institutional features of money, the payments system, and the financial system, with emphasis on commercial banking. Analyzes the Federal Reserve System and the effect of monetary policy on the economy. Prerequisites: EC 200 and EC 201.

EC 499 Internship in Economics (3)

Professional work experience with a government agency, financial institution, or other business firm in the area of economic analysis or planning. The work situation must create a new learning experience for the student. Credit hours in this course will not count toward the minimum 63 hours in the School of Business required for the BBA. The student's grade will be awarded on a pass/fail basis, as determined by the supervising faculty member. Prerequisites: Consent of major area faculty, appropriate background, at least seventy-five (75) semester credit hours, at least a 2.5 overall GPA and meet the general qualifications specified by the sponsoring business firm or governmental agency.

EC 525 Economic Environment (3)

Nature and scope of economics, the firm in a market environment, level of economic activity, international aspects, and policy alternatives.

EC 652 Managerial Economics (3)

Management problems from an economic point of view. The content focuses on the applications of economic theory to day-to-day managerial decision making. Prerequisite: EC 525 OR EC 200 and EC 201.

Education (ED)

ED 150 EPIC Experience I (1)

Supervised school-based field experience in PreK-Secondary school settings designed for potential teacher candidates to investigate teaching as a profession. A minimum of 35 hours in an assigned school setting is required. Orientation to the Washburn teacher education program is included during university classroom sessions. ED 150 must be taken prior to admission to the Professional Teacher Education Program.

ED 155 Teaching, Learning, Leadership (3)

This course is designed to acquaint students with the education profession and to help them develop a realistic understanding of teaching, learning, and leadership. Students will examine motives for teaching, explore the qualities of effective teachers and leadership, and discuss the various diversities teachers encounter as well as the implications for teachers and learning. Students will begin to identify strategies and options for successful classroom practice. Ethical, legal, and controversial issues affecting education today will be addressed along with how to become a teacher leader in the profession. Prerequisite: None.

ED 160 Introduction to Early Childhood Education (3)

This course encourages students to explore their suitability for a career in early childhood education through academic class work and observation of children from birth through third grade. In addition to child development, birth through age 10, students develop a working knowledge of the history, philosophy, theories, goals and practices of educating young children in educational settings. ED 160 is a prerequisite for all other early childhood education courses.

ED 161 Essentials of Early Childhood Education I (4)

Six competency areas of the Child Development Associate (CDA) Program are covered: safety; health; learning environment; physical development; cognitive skills; and communication skills. Both CDA and non-CDA students will be required to participate in field experiences in early childhood settings and to prepare individual portfolios that document proficiency in each of these areas. Prerequisite: ED 160.

ED 162 Essentials of Early Childhood Education II (4)

A continuation of ED 161 covering six additional competency areas of the Child Development Associate (CDA) Program (creativity; self-concept; social skills; guidance; family; program management; and professionalism). Prerequisite: ED 160.

ED 165 Ed. 1, Examining Teaching as a Profession: Diversity 1, Literacy 1, Technology 1 (3)

First in a series of four courses that comprise the foundational education program for future teachers. The four courses address four topics that are essential to establishing and maintaining a successful learning environment: Classroom Management, Diversity, Literacy and Technology. Topics in the first phase are centered around diversity, literacy, and technology. The foundational courses are sequential in nature and build upon the previous course. The courses are intended to be taken in consecutive semesters.

ED 217 Introduction to STEM and STEM Education (3)

This course, introduces the history and current state of STEM (Science, Technology, Engineering and Mathematics) and STEM education while giving students the opportunity to explore the various components of STEM and STEM careers. A strong emphasis is placed upon critical STEM areas (specifically underrepresented populations in STEM and how STEM impacts people and the environment) and STEM in the Community. Students will explore various STEM careers. Prerequisite: None.

ED 225 Becoming an Educational Professional (3)

An overview of professional expectations of teachers. Students will be introduced to an overview of professional expectations of teachers. Students will also be introduced to a variety of teaching models; processes for developing short and long term teaching plans; and strategies for assessing student learning. A review of influences of P-12 students' individual, family, and community characteristics on the teaching and learning process will be explored. The process for developing a professional portfolio is also included. A minimum of 24 hours of school/community field experiences is required. ED 225 must be taken prior to admission to the Professional Teacher Education Program.

ED 243 Infants & Toddlers Early Childhood Education (3)

This course integrates all aspects of developmental early care and education of children from birth to age three, which includes child growth, development, and learning. Prerequisite: ED 160; Concurrent enrollment in ED 245/ED 345.

ED 245 Practicum Infants & Toddlers Education (3)

This course provides students with opportunities to apply the knowledge and concepts of child development with children from birth to age three. Prerequisite: ED 160; Concurrent enrollment in ED 243/ED 343.

ED 261 Techniques-Early Childhood Guidance & Class Management (3)

In this course students will learn ways in which healthy development is fostered within developmentally appropriate child guidance. Techniques and typical guidance procedures appropriate for children from birth through age eight will be explored through readings, class discussion, and observations in group settings. Prerequisite: ED 160 or permission of instructor.

ED 267 Curriculum Development in Preschool Education (3)

The overall purpose of this curriculum development course is to explore teaching/learning strategies and how to support and encourage children in the development of cooperation, creativity, cognition (literacy, mathematics, science and social studies), and motor skills in developmentally appropriate curriculum. Prerequisites: ED 160, ED 243/ED 343, and ED 245/ED 345.

ED 269 Student Teaching in Preschool Education (3)

A supervised field experience in a pre-school setting and a seminar exploring child development issues. This course includes planning, teaching, and assessing developmentally appropriate activities for preschoolers in field placements. Prerequisites: ED 160, ED 343, ED 345, and permission of the instructor; Concurrent enrollment in ED 267/ED 367 and ED 268/ED 368.

ED 275 Ed. 2 Exploring Teaching as a Profession (Classroom Management 1, Diversity 2, Technology 2) Ed. 2 (3)

Second in a series of four courses comprise the foundational education program for future teachers. The four courses address four topics that are essential to establishing and maintaining a successful learning environment: Classroom Management, Diversity, Literacy and Technology. Topics in this phase are centered around further building on diversity and technology, and introducing classroom management. The foundational courses are sequential in nature and build upon the previous course. Prerequisite: ED 165

ED 285 Educational Psychology (3)

The purpose of this course is for students to develop a working knowledge of theories, concepts and models derived from the discipline of psychology as they apply to teaching, learning, and other aspects of educational practice. In addition to theories of learning, motivation, intelligence, students study child and adolescent development. Students also address social, cultural, and family influences on human behavior and human development as well as the experiences of diverse student populations in school settings. ED 285 must be taken prior to admission to the Professional Teacher Education Program. Prerequisite: None.

ED 290 The Whole Child (3)

The Whole Child is an educational child psychology-oriented course which looks at the whole child from birth to age 12. The course explores the developmental levels of the elementary child along with the academic, physical, and social-emotional areas of the child in relation to educating the whole child.

ED 295 Ed. 3 Experiencing Teaching as a Profession (Classroom Management 2, Diversity 3, Literacy 2) (3)

Third in series of four courses comprise the foundational education program for future teachers. The four courses address four topics that are essential to establishing and maintaining a successful learning environment: Classroom Management, Diversity, Literacy and Technology. . Topics in the third phase are centered on reinforcing and enhancing previously covered topics in classroom management, diversity, and literacy. The foundational courses are sequential in nature and build upon the previous course. Prerequisite: ED 275

ED 300 Integrating Technology into Curriculum (3)

This course is designed to equip early childhood, elementary, and secondary preservice teachers with the necessary skills to develop instructional practices that will allow them to incorporate technologies successfully in their classrooms. Prerequisites: Admission to teacher education, CM 101 (or equivalent), MU 123 or KN 333.

ED 301 Classroom Management, Safety, Planning, Pedagogy (3)

This course is a stand-alone course for individuals who need some background in classroom management, safety and planning. The course will provide or strengthen a solid foundation for individuals who are currently or soon to be professional teachers/instructors. Specifically the course will address the needs of individuals who require some additional support in these areas or are teaching under provisional licenses and have not yet completed a licensure program.

ED 302 Teaching Exceptional Learners (3)

A survey of the characteristics and educational needs of all types of exceptional learners, with particular emphasis given to those students included into the regular classroom. Instructional strategies and appropriate resources for various exceptionalities are explored in detail. Prerequisite: Admission to teacher education.

ED 305 Language & Literacy (2)

An overview of language development and the relationship of oral language and literacy. Students learn to assess and stimulate oral language development and emergent literacy skills. Prerequisite: Admission to teacher education.

ED 310 Teaching Math in Elementary School (3)

One course in the unified block in the teaching of mathematics and science. Investigates general content and teaching strategies for each strand of the elementary mathematics program. Problem solving and mental computation will be integrated and the development and use of manipulatives will be stressed. Current curriculum trends and the role of will be explored. Prerequisites: Admission to teacher education and a grade of "C" or better in both MA 112 or MA 116 and MA 228; Concurrent enrollment in ED 315 and ED 317.

ED 314 Chemistry Methods for STEM Edu (3)

This course is designed for pre-service education students and covers a range of chemistry topics related to curriculum and instruction at the middle or secondary grades level. It includes planning instruction, instructional methods and strategies, managing the classroom, assessing student performance, and working with others in the school environment, especially pertaining to the teaching of chemistry. Students are also required to participate in a 6 week observation/practicum and experience actually teaching several lessons in the student's major area. Corequisite: CH 317

ED 315 Teaching Science in Elementary School (3)

One course in the unified block in the teaching of mathematics and science. Methods and materials for teaching knowledge, processes, and applications in physical, earth and life sciences will be developed. Emphasis will be placed on activity-oriented programs. Prerequisites: Admission to teacher education, PS 126, BI 100, and BI 101; Concurrent enrollment in ED 310 and ED 317.

ED 317 Math/Science Practicum (2)

A supervised field experience in the teaching of mathematics and science in the elementary grades. Prerequisites: Concurrent enrollment in ED 310 and ED 315, and admission to teacher education.

ED 318 Earth/Space Science for STEM E (3)

This course is designed for pre-service education students and covers a range of Earth and space science topics related to curriculum and instruction at the middle and secondary level. It is designed to be taught in conjunction with Earth/Space Science for STEM Educators (PS 318). It includes planning instruction, instructional methods and strategies, managing the classroom, assessing student performance, and working with others in the school environment, especially pertaining to the teaching of chemistry. Students are also required to participate in a 6 week observation/practicum and experience actually teaching several lessons in an Earth/Space science classroom. CO-REQUISITE: Earth/Space Science for STEM Educators (PS 318)

ED 319 STEM Practicum I (1)

Catalog Description: Supervised field experience in the teaching of STEM in the middle grades. ED 319 will be taught in conjunction with BI 319 (or an approved substitute). The course will focus on the Biology course content as it relates to teaching the content at the middle grades level. Prerequisite: Admission to Professional Teacher Education Program. Concurrent enrollment in BI 319

ED 320 Teaching Reading in Elementary School (3)

The theory and practice of teaching reading including word attack, comprehension, and study skills. Special emphasis is given to the use of basal and other instructional materials in regular and special reading classes. Prerequisite: Admission to teacher education; Concurrent enrollment in ED 325 and ED 327.

ED 321 STEM Practicum II (1)

Supervised field experience in the teaching of STEM in the middle grades. ED 321 will be taught in conjunction with EG 320 (or an approved substitute) and will focus on the course content as it relates to teaching the content at the middle grades level. Prerequisite: Admission to Professional Teacher Education Program. Concurrent enrollment in EG 320 or approved PY or EG course.

ED 322 Social Studies Content for Elementary Educators (3)

Social Studies Content for Elementary Teachers provides a broad foundation of social studies topics covered in the elementary school classroom. The focus of the course will emphasize the big four disciplines addressed in social studies—History (including American History and World History), Government and Civics, Geography and Economics.

ED 324 Curriculum & Methods of Elementary School Physical Education (4)

Methods in planning, presenting, and administering a physical education curriculum in the middle and elementary schools.

ED 325 Teaching Language Arts & Children's Literature (3)

The theory and practice of teaching oral and written communication skills. Special emphasis is given to the interrelationship between literature for young people and the language arts skills of listening, speaking, reading and writing. Prerequisite: Admission to teacher education; Concurrent enrollment in ED 320 and ED 327.

ED 326 Methods in Secondary School Physical Education (3)

Methods in planning, presenting, administering, and evaluating physical education for middle and secondary school teachers.

ED 327 Literacy Practicum (2)

A supervised field experience in the teaching of literacy skills in the K-6 classroom. Prerequisite: Admission to teacher education; Concurrent enrollment in ED 320 and ED 325.

ED 330 Teaching Social Studies through Integrating Curriculum (3)

This course includes content, methods, and learning theory for effective social studies instruction. Methods for integrating social studies instruction with other content areas, including the arts will be addressed. Special attention is given to methods which promote critical thinking abilities necessary for participation in a diverse democratic society. Prerequisite: Admission to teacher education; Concurrent enrollment in ED 335 and ED 337.

ED 335 Creative Experiences in Early Childhood Through Middle School (3)

Explores various elements of aesthetics, including art, music, drama, dance, and movement and the relationship of such activities to the teaching-learning environment. Emphasis will emphasize use of creative activities to enrich other content areas. Prerequisite: Admission to the Professional Teacher Education Program and concurrent enrollment in ED 330 and ED 337.

ED 337 Social Studies Practicum (1)

One course in a unified block in the teaching of social studies and aesthetics. This course requires students to develop and teach social studies lessons in the elementary school classroom. Prerequisite: Admission to teacher education; Concurrent enrollment in ED 330 and ED 335.

ED 340 Teaching in Adolescent Middle Level Environment (2)

Understanding the unique nature of middle level education will be the focus of this course. Based upon readings, field experience, and class discussion, students will study the nature of adolescent development, curriculum and instruction, programs and collaborative interactions that support an effective middle school program. Prerequisite: Admission to teacher education; Concurrent enrollment in one of the following practicum sections, ED 346, ED 348 or ED 349.

ED 343 Infants & Toddlers in Early Childhood Programs (3)

Integrates all aspects of developmental early care and education of children from birth to age three, which includes child growth, development, and learning. Prerequisite: ED 160 and admission to the Professional Teacher Education Program. Concurrent enrollment in ED 345.

ED 345 Practicum Infants & Toddlers Education (3)

Provides students with opportunities to apply the knowledge & concepts of child development with children from birth to age three. Prerequisite: ED 160 and admission to the Professional Teacher Education Program. Concurrent enrollment in ED 343.

ED 346 Middle Level History Practicum (1)

A supervised field experience in the teaching of history in the middle level classroom. Prerequisite: Admission to teacher education; Concurrent enrollment in ED 340.

ED 348 Middle Level English/Language Arts Practicum (1)

A supervised field experience in the teaching of English/Language Arts in the middle level classroom. Prerequisite: Admission to teacher education; Concurrent enrollment in ED 340.

ED 349 Middle Level Mathematics Practicum (1)

A supervised field experience in the teaching of mathematics in the middle level classroom. Prerequisite: Admission to teacher education; Concurrent enrollment in ED 340.

ED 350 General Secondary Methods (3)

Extensive laboratory and simulated classroom experiences with field-based observation. All secondary majors are required to have at least one methods course, and this course fills the basic requirement when a "special area" methods course is unavailable. All students who enroll in this methods course participate in a field-based teaching experience at various secondary schools. Prerequisite: Admission to teacher education.

ED 352 Methods of Teaching Science in Secondary School (3)

Principles and philosophy of science education; development of the secondary science curriculum; and organization, presentation, and evaluation of science in middle/secondary schools. Includes extensive laboratory and simulated classroom experiences as well as field based observation and class-room participation. Prerequisites: Admission to teacher education and permission of instructor.

ED 353 Assessment & Evaluation in Early Childhood Education (3)

Students in this course will learn how to assess and evaluate young children's development and learning. Typical assessment procedures appropriate for children from birth through third grade will be studied. Techniques will be developed to record children's behavior individually and in group settings. Prerequisite: Admission to teacher education.

ED 354 Curriculum and Assessment (3)

The curriculum and assessment course provides students with an opportunity to examine how to design implement and assess curriculum to address the needs of all learners. Prerequisites: Admission to Teacher Education and ED 275.

ED 355 Principles of Vocational Education & Student Organizations (3)

The development and role of vocational education in public education, the federal vocational education legislation, and the development of student organizations. Prerequisite: Permission of instructor.

ED 362 Methods of Teaching English in Secondary School (3)

The study of and practice in the methods of teaching literature, language, and writing, in the secondary schools. Major concerns include teaching theory; the relationship between oral and written language; language development; language used in various social, regional, and cultural settings; curriculum development and evaluation; and the assessment of students' progress in reading and writing. Students participate in a field-based experience at various secondary schools. Prerequisites: Admission to teacher education and permission of the instructor.

ED 363 Methods of Teaching Math in Secondary School (3)

Principles and methods of teaching the process and content of secondary school mathematics. Includes emphasis and training in general mathematics, algebra, geometry, as well as advanced mathematics. All students who enroll in this course participate in field based teaching experiences at various secondary schools. Prerequisites: Admission to teacher education and permission of the instructor.

ED 366 Methods of Teaching Social Studies in Secondary School (3)

Principles and methods of teaching the process and content of the social studies. Includes emphasis and training in locating information, developing instructional units, and using instructional aids. All students enrolled in this course participate in field-based teaching experiences at various secondary schools. Prerequisites: Admission to teacher education and permission of instructor.

ED 367 Curriculum in Preschool Education (3)

The overall purpose of this curriculum development course is to explore teaching/learning strategies and how to support and encourage children in the development of cooperation, creativity, cognition (literacy, mathematics, science and social studies), and motor skills in developmentally appropriate curriculum. Prerequisites: ED 160, ED 343, ED 345 and admission to the Professional Teacher Education Program. Concurrent enrollment in ED 369.

ED 368 Methods of Teaching Foreign Language (3)

Principles and methods of teaching foreign languages. Extensive laboratory and simulated classroom experiences with field experiences in the classroom. Emphasis given to proficiency oriented teaching of various target languages, developing instructional units, use of multimedia resources, and principles of foreign language testing. Prerequisites: Admission to teacher education and permission of instructor.

ED 369 Student Teaching in Preschool Education (3)

A supervised field experience in a pre-school setting and a seminar exploring child development issues. This course includes planning, teaching, and assessing developmentally appropriate activities for preschoolers in field placements. Prerequisite: ED 160, ED 343, ED 345, and admission to the Professional Teacher Education Program. Concurrent enrollment in ED 367.

ED 375 Teaching Science in Middle School (3)

This course investigates basic content/pedagogy, and the importance of science in a middle school program. How students learn science and effective strategies including inquiry, use of technology, and laboratory experiences will be investigated. Current curriculum trends will be explored and lessons will be developed based on national and state standards. Prerequisite: Admission to the Professional Teacher Education Program.

ED 376 Family, School, and Community Collaboration in Early Childhood Education (3)

Students will examine trends that promote inter-agency and interdisciplinary approaches to serving the needs of young children and their families. The role of the teacher or other education-focused entity of a program will be examined in terms of primary service providers and in terms of team membership at local, state and federal levels. Skills that foster communication and cooperation among families of various cultures will be studied. Prerequisite: Admission to teacher education.

ED 380 Elementary Art Education (3)

Study of the artistic development of children, practice with art materials, techniques, and concepts appropriate to the elementary grades including planning and presentation of art lessons. Production, aesthetics, criticism, and history of artworks is emphasized as the basis for children's growth in art learning. Cross-listed as AR 380.

ED 381 Craft Techniques in Middle/Secondary School (3)

The artistic development of middle and sr. high art students and how it relates to technical/artistic skills. Safety and health hazards of the public schools art room. Hands-on experience with metalry, papermaking, fibers, and earthenware craft processes. The philosophy, traditions, and current position of crafts in the art world. Cross-listed as AR 381.

ED 382 Methods & Philosophy in Art Education (3)

Examination of historical and current theories or art education, the development of personal philosophy of art education, and the determination of curriculum goals and objectives. Effective teaching methods for lesson planning, presentation, and evaluation are studied. Cross-listed as AR 382. Prerequisite: Admission to teacher education.

ED 385 Foundations of Education (3)

A survey course describing the social, cultural, historical, and philosophical bases of American education. Encourages students to develop a professional perspective based upon an understanding of essential educational foundations. Prerequisite: Admission to teacher education.

ED 395 Ed. 4 Extending Teaching as a Profession (Classroom Management 3, Literacy 3, Technology 3) (3)

ED 395 Ed 4. Extending Teaching as a Profession (3) Fourth in series of four courses comprise the foundational education program for future teachers. The four courses address four topics that are essential to establishing and maintaining a successful learning environment: Classroom Management, Diversity, Literacy and Technology. Topics in the fourth phase are centered on reinforcing and enhancing previously covered topics in classroom management, literacy and technology. The foundational courses are sequential in nature and build upon the previous course. Prerequisite: ED 295

ED 400 Understanding the School (2)

Seminar course taught in conjunction with either ED 410, ED 420 or ED 440. Concurrent enrollment with ED 405. Conducted during the first three weeks of the professional semester and one week following the completion of the student teaching experience. Designed to help students synthesize their understanding of schools, to reflect upon their student teaching experience, and to integrate educational theory and practice. Prerequisite: Admission to the Professional Teacher Education Program and admission to Student Teaching.

ED 402 Teaching Struggling Learners (2)

This course is designed to assist the preservice teacher in understanding how to identify, assess, plan and teach individuals who are struggling in their learning. Preservice teachers will survey problems that block some students from successful achievement in reading, writing, math and general learning tasks. The preservice teacher will develop the knowledge and skills necessary to assess and analyze problems and to provide appropriate instructional strategies for specific learning problems. Prerequisite: Admission to the Professional Teacher Education Program and ED 302 or SE 476. Concurrent enrollment in Language Arts Block for K-6 licensure candidates.

ED 405 Classroom Management (1)

Various methods of managing classrooms and student behaviors in diverse learning environments. Concurrent enrollment in ED 400 and either ED 410, ED 420, or ED 440. Prerequisite: Admission to the Professional Teacher Education Program and admission to Student Teaching.

ED 410 Secondary Student Teaching (6-12)

Directed and supervised teaching of content in 6-12 classrooms. Students are assigned to Topeka and neighboring schools for a period of twelve weeks. Not available for graduate credit. May be taken on a Pass/fail basis only. Prerequisites: Completion of appropriate professional education courses, and teaching specialization courses, and admission to student teaching.

ED 415 5th-8th Grade Student Teaching (4)

Directed and supervised teaching of content in 5-8 classrooms. Students are assigned to Topeka and neighboring schools for a period of six weeks. Not available for graduate credit. May be taken on a pass/fail basis only. Prerequisites: Completion of appropriate professional education courses, middle school teaching content courses, and admission to student teaching.

ED 420 K - 6 Student Teaching (8-12)

Directed and supervised student teaching for a minimum 8 weeks in a K-6 classroom. Not available for graduate credit. May be taken on a pass/fail basis only. Prerequisites: Completion of appropriate professional education courses, and teaching specialization courses, and admission to student teaching.

ED 425 Observation and Supervision (1)

Supervised teaching in a P-12 classroom. This course may be taken for graduate credit and may be repeated. Prerequisite: Permission of the department chair.

ED 430 Student Teaching Birth to Grade 3 (4)

Directed and supervised student teaching in a kindergarten through grade three educational setting. Not available for graduate credit. May be taken on a pass/fail basis only. Prerequisites: Completion of appropriate professional education courses, and teaching specialization courses, and admission to student teaching.

ED 440 Student Teaching Grades P-12 (4-12)

Directed and supervised student teaching in grades Pre-Kindergarten through grade 12 educational setting. Not available for graduate credit. May be taken on a pass/fail basis only. Prerequisites: Completion of appropriate professional education courses, and teaching specialization courses, and admission to student teaching.

ED 450 Methods & Cross-Cultural Communication (3)

Emphasis on practical methods of teaching English as a Second Language and strategies for working with speakers of other languages. Includes a review of resource materials, lesson planning, and in-class teaching practice as well as an analysis of problems posed by conflicting cultural and language habits. Prerequisites: Admission to Teacher Education.

ED 456 Advanced Children's Literature (3)

Advanced survey and analysis of the literature written for children through middle school with instructional applications. A variety of literary forms explored with emphasis on evaluation and development of specific strategies to enhance reader/listener comprehension and appreciation. Emphasis given to planning lessons which incorporate children's literature in instruction across the curriculum. Prerequisite: Senior standing.

ED 461 ESOL Assessment Administration Teacher Education (2)

This course focuses on language assessment theory and practice in ESOL settings. The content of the course will include purposes for assessment, types of assessment including alternative assessment and construction of assessment instruments. Central issues in the assessment of language will be presented and analyzed. Prerequisite: Admission to the program.

ED 463 ESOL Teaching and Learning (3)

This course is designed to provide students with a critical understanding of instructional delivery which caters for the linguistic and literacy needs of minority/heritage communities. The focus of this course is located within postmodernist principles of cultural capital, discursive practices and difference. Students will be required to engage with the political debates and resultant educational ramifications concerning bilingual education, dual language programs, ESOL education, as well as other issues such as power and inequalities in language education. This sociocultural-critical theoretical framework will provide students with the basis to then negotiate issues of second language learning, critical pedagogy, language varieties, multicultural communities as well as critical literacy and reading development. Prerequisite: Admission to the program.

ED 464 ESOL Practicum-Assessment & Administration Teacher Education (3, 4)

A supervised clinical experience with three ESOL learners of different levels (one elementary level learner, one middle level learner, and one secondary level learner). Students administer tests, analyze data, determine the learners' strengths and weaknesses, develop instructional plans for each learner, select and implement appropriate strategies and materials, and assess progress towards instructional goals using skills developed as critical and reflective professionals. Appropriate conduct is maintained with parents and classroom teachers with oral or written reports as deemed appropriate. Prerequisites: ED 450, ED 463, ED 461, and ED 462.

ED 466 Linguistics for ESOL Teachers (3)

This course provides an introduction to language as a system, with a particular focus on teaching English as a second language to students in public schools, in grades P-12. Among the topics addressed are: first and second language acquisition processes; English phonology, morphology, syntax, and discourse; implications for teaching English language learners the four language skills – listening, speaking, reading, and writing; and implications for teaching content-specific language (math, science, social studies). Prerequisites: Admission to Teacher Education.

ED 472 Issues in Modern American Education (3)

Critical analysis of contemporary problems and issues in American education. Consideration of historical, sociological, and philosophical foundations affecting problems and issues included. This course is part of the graduate core. May also be taken for undergraduate credit.

ED 474 Special Topics in Education (0-3)

Courses in special topics that will vary from semester to semester and will be announced in advance. ED 474 may be taken for more than one semester. Prerequisite: Permission of the Department Chairperson.

ED 497 Independent Study in Education (1-3)

Intensive guided study in a special topic in education. Independent Study in Education is available only to candidates for teaching licenses. Prerequisites: Admission to an approved program of study and written approval of the Chairperson of the Department of Education.

ED 614 Guidance in Elementary/Secondary Schools (3)

Role of the classroom teacher and administrator in guidance and counseling program of the elementary/secondary school. Emphasis on unique needs of elementary children in regular, mainstream, and special classes. Prerequisite: Permission of the instructor.

ED 633 Advanced Child Development (3)

Advanced course in theory and basic concepts of child development. Topics include assumptions and principles of five major approaches: normative-maturation, psychoanalytic, social learning, cognitive-development and behavior analysis. Includes historical background of developmental theory and cross cultural perspectives. Prerequisites: Graduate standing.

ED 641 Language and Literature Development in Early Childhood Education (3)

Students identify speech and language behaviors which are developmentally appropriate for young children birth to age eight. Students identify and practice methods and techniques necessary to foster listening, speaking, pre-writing, pre-reading, and pre-math skills in children birth to five years of age.

ED 644 Art in Elementary/Middle School (3)

Understanding the purpose behind the creative process as it applies to teaching and evaluating art produced by the child. Relates various art experiences to students' developmental and emotional level. Applies elementary, middle, and secondary art experiences to the "regular" classroom.

ED 645 Introduction to Craft Techniques (3)

Lectures and demonstrations covering a variety of craft materials utilized in the elementary, middle, and secondary schools. Includes experience and practice with block printing, fabric art, casting and molding techniques, and safety standards associated with the craft production.

ED 647 PreKindergarten and Kindergarten Methods (3)

Focus on methods and materials that support physical, emotional, social and intellectual needs of the kindergarten and pre-kindergarten child.

ED 650 Graduate Seminar (3)

This course serves as an orientation to the Washburn Teacher Education Program as well as an exploration of the teaching profession for students pursuing an initial teaching license at the graduate level. Students will be introduced to the social, historical, and philosophical foundations of education, as well as a variety of teaching models, and the planning and assessment practices expected of all teachers. A review of influences on P-12 students' individual family, and community characteristics on the teaching and learning process will also be explored. The process for developing the education department required professional portfolio is included. A minimum of a 35 hour school/community field experience is required. Prerequisite: Concurrent enrollment in ED 660.

ED 651 Language Problems of non-English Speakers (3)

Emphasis on practical methods of teaching ESL and strategies for working with speakers of other languages. Includes a review of resource materials, lesson planning, and in-class teaching practice as well as an analysis of problems posed by conflicting cultural and language habits. May be taken for undergraduate credit and EN 499 for graduate credit.

ED 652 Cognitive & Language Development (3)

Emphasizes study of two essential areas of human development as they apply to early childhood teaching and learning: theoretical perspectives and research on cognitive and language development and instructional knowledge which provides understanding of teaching and learning that demonstrate instructional strategies grounded in theory and research.

ED 653 Assessment & Evaluation in Early Childhood Education (3)

Students learn ways in which young children's development is assessed and evaluated. Typical assessment procedures appropriate to children to age eight are studied. Techniques are developed to record children's behavior individually and in group settings. Prerequisite: Graduate standing.

ED 660 Advanced Educational Psychology (3)

Explores advanced topics in educational psychology as they apply to teacher practice. Topics include learning theory, child and adolescent psychology, theories of motivation and achievement, and social and cultural influences on learning and development. Part of the graduate core curriculum. Prerequisite: Consent of instructor.

ED 661 Exceptional Infants & Young Children (3)

Survey of exceptionalities including etiology, curriculum, identification, adaptation of materials and environments, play, referral and development of an individual educational plan (IEP). Prerequisite: ED 343 or equivalent course in child development.

ED 662 Methods of Teaching English-Secondary (4)

Study of and practice in the methods of teaching literature, language, and writing in the secondary schools. Major concerns include teaching theory; the relationship between oral and written language; language development; language used in various social, regional, and cultural settings; curriculum development and evaluation; and the assessment of students' progress in reading and writing. Students participate in a field-based experience at various secondary schools. Prerequisite: Admission to the Professional Teacher Education Program or consent of instructor.

ED 663 Advanced Social Studies (3)

Advanced survey and analysis of issues and practice of social studies education in elementary/middle school. Innovative approaches for teaching history, social issues, psychology, political science, anthropology, and/or philosophy in the classroom are explored. Emphasis on the content and materials of a variety of topics within the social science field. May be taken for undergraduate or graduate credit.

ED 665 Introduction to Educational Research (3)

Introduces graduate students to basic information needed to understand processes to plan, conduct, and report research on education-related issues and problems. Focus on increasing students' appreciation of the field of educational research, while increasing their ability to interpret and evaluate published research studies. Both qualitative and quantitative research methodologies are reviewed. Part of the graduate core curriculum.

ED 667 Curriculum Development and Evaluation - Elementary Education (3)

Examination of social and psychological influences upon curricular design and implementation. Emphasis on study of the societal forces which affect school curricula, prominent instructional models and supporting theoretical rationale, barriers on implementation of innovative curricula, and systematic evaluation of educational programs. Students review the process of curricular modification from a perspective integrating theory and practice.

ED 668 Curriculum Development & Evaluation (3)

An examination of social and psychological influences upon curricula design and implementation. Emphasis is placed upon study of the societal forces which affect school curricula, prominent instructional models and their supporting theoretical rationale, barriers of effective implementation, innovative curricula modification from a perspective of theory and practice.

ED 669 Curriculum Development and Evaluation - Secondary Education (3)

Examination of social and psychological influences upon curricular design and implementation. Emphasis on study of the societal forces which affect school curricula, prominent instructional models and supporting theoretical rationale, barriers on implementation of innovative curricula, and systematic evaluation of educational programs. Students review the process of curricular modification from a perspective integrating theory and practice.

ED 670 Curriculum Development and Evaluation - Middle/Secondary School (3)

Examination of social and psychological influences upon curricular design and implementation. Emphasis on study of the societal forces which affect school curricula, prominent instructional models and their supporting theoretical rationale, barriers on implementation of innovative curricula, and systematic evaluation of educational programs. Students review the process of curricular modification from a perspective integrating theory and practice. May be taken for undergraduate or graduate credit.

ED 671 ESOL Teaching and Learning (3)

This course will provide an overview of curriculum and instruction as it relates to ESOL learners. Candidates will learn appropriate teaching strategies and subject matter content relevant to this population. An emphasis will be placed on understanding language and literacy acquisition and working with students with special needs.

ED 672 Issues in Modern American Education (3)

Critical analysis of contemporary problems and issues in American education. Consideration of historical, sociological, and philosophical foundations affecting problems and issues included. This course is part of the graduate core. Prerequisites: Consent of instructor.

ED 674 Special Topics/Education (0-3)

Courses in special topics which will vary from semester to semester and will be announced in advance. ED 674 may be repeated for credit. Prerequisites: Permission of Department Chairperson and the instructor.

ED 678 Organization & Administration of Early Childhood Education Program (3)

Organization and administration of early childhood programs. Emphasis on supervision of volunteers and paraprofessionals. Introduces the student to techniques for organizing staff as an instructional Early Childhood Education team.

ED 680 Integrating Technology in Curriculum (3)

Presents students with principles underlying selection and use of technology to enhance learning. Examines software and multimedia technologies contributing to the instructional process. Prerequisites: ED 667 or ED 669.

ED 682 Leadership in Technology (3)

Provides guidance regarding varying aspects of technology implementation, including software/hardware acquisitions, funding, and staff development. Prerequisite: Graduate standing.

ED 684 Multimedia in the Classroom (3)

Multimedia gives teachers and students powerful new tools for teaching and learning by combining technologies such as video, audio, graphics, interactivity and text. Students in this course will learn how to identify, choose, plan for, produce and integrate multimedia into instruction.

ED 685 Issues in Educational Technology (3)

Critical exam of historical, sociological, philosophical foundations and implications of the implementation and use of technology in an educational setting.

ED 686 Integrating Internet Into Instruction (3)

The Internet is providing many educational opportunities for the connected classroom. This course will investigate the various components of the Internet such as the World Wide Web, telecommunications and other resources for use in the classroom. Students will learn to find, identify, evaluate and utilize Internet resources for instruction.

ED 687 Emerging Technologies in Education (3)

Technology is a constantly changing and ever evolving process. Many new emerging technologies hold promise for application for learning in the classroom. Students in this course will explore new technologies, evaluate them and determine their applicability for the classroom.

ED 688 Using Technology with Special Needs Students (3)

Using technology, including computers to enhance education of students with exceptionalities. Prerequisite: ED 300, Graduate standing, and either ED 302, or SE 476.

ED 690 Tests and Measurements (3)

Evaluation procedures as an integral part of the teaching/learning process. Involves identifying and defining intended learning outcomes, writing educational objectives, constructing and selecting various evaluation instruments, and interpreting and using test results to improve instruction. Emphasis on criterion and norm-referenced tests of ability and achievement as well as tests of individual assessment. May be taken for undergraduate or graduate credit.

ED 694 Philosophy of Education (3)

Historical and contemporary analysis of philosophical perspectives concerning the educational process. Develops and traces schools of educational thought in an effort to help students clarify their own educational philosophy. Emphasis on relationship between educational philosophy and practice. May be taken for undergraduate or graduate credit.

ED 696 Thesis (3-6)

Research design and analysis of action research or library research study. Culminating activity for graduate students interested in research or advanced study. Professional lab experiences in child study, innovative problems constitute the typical projects for thesis designs. Prerequisite: ED 665 and permission of Education chair.

ED 697 Independent Study in Education (1-3)

Independent research for graduate students investigating a special problem in a specific areas. Prerequisite: Chair consent.

ED 698 Action Research Capstone (1)

Students will identify a question about their own teaching or school practices, review the current research literature, develop a plan to collect data, collect and analyze their data, identify emergent themes, write an action research paper, and present their project and findings to the faculty committee. The objectives of the action research project are to help students understand the research process in an educational setting; provide students with the opportunity to study and improve their own teaching through an action research project; and to show students how research can have a positive effect on school improvement and change. Prerequisites: Admission to the graduate program, successful completion of at least 18 credit hours of coursework and successful completion of ED 665 Educational Research.

Educational Administration (EA)

EA 663 Building a School Learning Culture (4)

This course is designed as a foundational course for aspiring Building Level Administrators. The course will provide building leaders information to develop a school vision and to build an environment for a successful school learning culture. Course assignments will help future building administrators learn how to create and sustain a collaborative school vision, how to assess and encourage a healthy learning culture, and how to develop and maintain a rigorous and coherent instructional program. The course will include a one-credit hour practicum where the building level candidate will practice and implement the course objectives in a real-life setting. Prerequisite: Departmental Permission.

EA 664 Creating and Evaluating the Instructional Program (4)

This course will prepare aspiring school building administrators to develop and revise curriculum and instruction within the building, including the differentiation of instruction to meet the needs of all students. Learning how to provide supports for all students will be an essential element of this course. Teacher evaluation models will be explored along with how professional development can improve and enhance teacher performance. The course will include a one-credit hour practicum where the building level candidate will practice and implement the course objectives in a real-life setting. Prerequisite: Departmental permission.

EA 666 Building Level Management (4)

This course is one of the four courses required for building level leadership licensure. The course will cover topics regarding the management of a school building, including budgeting, facility management, instructional scheduling, building wide discipline management, and capacity for building leadership. The course will include a one-credit hour practicum where the building level candidate will practice and implement the course objectives in a real-life setting. Prerequisite: Departmental permission.

EA 667 Leading and Engaging a Collaborative Environment (4)

This course deals with communication within the school and the greater school community, including parents and community partners. Building relationships and practicing distributed leadership concepts are also a part of this course. All aspects of school improvement will be explored including the professional responsibility and ethics within the school community. The course will include a one-credit hour practicum where the building level candidate will practice and implement the course objectives in a real-life setting. Prerequisite: Departmental permission.

EA 673 Creating a Systemic District Learning Culture (4)

This course is designed as a foundational course for aspiring District Level Administrators. The course will provide district leaders information to develop a district vision and to build an environment for a successful district learning culture. Course assignments will help future district administrators learn how to create and sustain a collaborative district vision, how to assess and encourage a healthy learning culture, and how to maintain and support a rigorous and coherent instructional program. The course will include a one-credit hour practicum where the district level candidate will practice and implement the course objectives in a real life setting. Prerequisite: Departmental permission

EA 674 Spec Topics In Ed Admin (1-3)

Topics vary each semester & are announced in advance. May be repeated. Prerequisite: Chair & instructor consent.

EA 675 Creating and Evaluating a Systemic Instructional Program (4)

This course will prepare aspiring district administrators to review, evaluate, and lead revision of curriculum and instruction at a district level, including the differentiation of instruction to meet the needs of all students. District level supports of all students through special education, general education intervention, behavior interventions, and other supports will be addressed. Teacher and principal evaluation models will be explored along with how professional development can be improved and enhance teacher and principal performance. The course will include a one-credit hour practicum where the building level candidate will practice and implement the course objectives in a real-life setting. Prerequisite: Departmental permission.

EA 676 District Level Management (4)

This course is one of the four courses required for district level leadership licensure. The course will cover topics regarding the management of a school district, including district finances and budgeting, facility management and maintenance, human resources, and policies for district welfare and safety. The course will include a one-credit hour practicum where the building level candidate will practice and implement the course objectives in a real-life setting. Prerequisite: Departmental permission.

EA 677 Building a Systemic Collaborative District Environment (4)

This course deals with communication with the school district and the greater school community, including parents, community partners, and school board relations. A particular focus on district improvement plans and the involvement of district leadership in this process will be an essential element of this course. The course will include a one-credit hour practicum where the building level candidate will practice and implement the course objectives in a real-life setting. Prerequisite: Departmental permission.

EA 681 Basic Concepts of Educational Administration (3)

Introduction to basic concepts underlying school building administration. Theory and practice of educational administration is analyzed and major concepts of formal organization, motivation, authority, leadership, decision making, conflict in organization, and organizational change are analyzed. Prerequisite: Graduate standing.

EA 683 School Supervision and Staff Development (3)

Improves the instructional competencies of teachers and to help those in supervisor positions develop competencies necessary to help others improve instructional performance. Topics include the characteristics of effective instruction, alternative instructional strategies and alternative supervisory models. Prerequisite: Graduate standing.

EA 684 School Finance & Business Administration (3)

Describes forms of school revenue including ad valorem tax and bonded indebtedness; appropriate school accounting methods according to the Kansas Department of Education; and models for effective business management. Prerequisite: Graduate standing.

EA 686 School Law and Ethics (3)

The legal rights, duties, and responsibilities of school personnel. Specific topics in this course include due process, tort liability, negligence, and contracts. Basic legal relationships between employer, colleagues, pupils, and adults are addressed. A focus is also placed on the basic principles of ethical behavior established by legal and professional organizations, moral and legal consequences of decision making in schools, and the relationship between ethical behavior, school culture, and student achievement. Prerequisite: Graduate Standing

EA 688 Elementary/Middle School Principalship (3)

Role and responsibility of the principal in organizing, administering, and supervising the elementary school. Examines the multifaceted role of the building administrator. Prerequisite: Graduate standing.

EA 689 The Building Leader (3)

The role and responsibility of the school principal in organizing, administering, and supervising the pre-K-12 school. This course examines the multifaceted role of the building administrator. Prerequisite: Graduate standing.

EA 692 School Community Relationships (3)

Development of effective skills in communication, group facilitation, interpersonal relations, climate-building, conflict resolution, and relationships to the publics served. Prerequisites: Graduate standing.

EA 694 Practicum I Educational Administration (3)

Series of structured, field-based experiences in elementary, middle or secondary school to demonstrate competency in such administrative areas as: discipline, scheduling, counseling, financial management, line/staff relationships, professional personnel and other leadership skills. Prerequisite: Permission of instructor.

EA 695 Practicum II in Educational Administration (3)

Supervised field-based experience for the superintendent candidate to demonstrate competencies identified through the NCATE/ELCC categories. Field candidates will demonstrate competency in the area of finance, facilities, human resources, curriculum leadership, and other designated leadership skills. Candidates will develop an experience portfolio to validate job skills. Prerequisite: Building level licensure/certification.

EA 696 Human Resources Management (3)

This course deals with personnel policies and issues in the following areas of human resources: teacher recruitment, orientation, evaluation, promotion, termination, tenure, retirement, and related areas. Included will be an emphasis on adherence to legal aspects of the personnel function as well as dealing with professional organizations. Prerequisite: Building Level Licensure/Certification.

EA 697 School Planning/Facility Management (3)

This course is designed for aspiring school superintendents and central office leaders. This course will prepare school leaders to be proactive in developing educational specifications for school buildings thereby enhancing the educational process. This course includes the planning procedures for new buildings, remodeling and/or retrofitting buildings. Community and school surveys, site selection, design and maintenance and operations of school buildings are also components of the course. Prerequisite: Building Level Licensure/Certification.

EA 698 The District Leader (3)

This course is designed for individuals who wish to become central office administrators. The course emphasizes sound administration of financial, material, and human resources as necessary for optimal realization of the goals of the school district. Effective public school administrators must understand the systems principles and leadership potential which are found in the area of central office administration. Relationships with the board, community, staff, and students are a major focus. Prerequisite: Building Level Licensure/Certification.

Electricity (ELE)

ELE 120 National Electrical Code I (4)

This is an introductory course on the use and interpretation of the current National Electrical Code. The student will develop a working knowledge of the code which will permit them to apply it to everyday applications. The course will include the requirements for electrical installation, wiring design and protection, methods and materials used, equipment for general use, special occupancies equipment, and condition.

ELE 125 AC/DC Circuits I (4)

This course introduces students to the basic of alternating current and direct current circuits. The student will perform calculations using Ohm's law and the study the construction, operation and purpose of resistors, potentiometer, switches, fuses, relay capacitors, inductors, batteries, alternators, transformers, and series-parallel resonant circuits. Students will build basic AC and DC circuits using multi meter and oscilloscope.

ELE 127 International Res Code I (1)

The IRC (International Residential Code) is the understanding of building of single and two-family dwellings. The student will develop a working knowledge of the code and standards of constructing a dwelling. The electrical student needs the understanding of basic building design to do their work more efficiently. The course will include the requirements for scope and administration, definitions, and building planning.

ELE 132 Print Reading (2)

Print Reading introduces the student to the fundamentals of interpreting construction drawings. Students will learn to interpret plan views, elevation views, sections, details, schedules, specifications, symbols and abbreviations found on most residential, commercial, and industrial construction drawings.

ELE 135 Commercial Wiring I (4)

In Commercial Wiring I, the student will study the theory, practice, and National Electrical Code requirements for commercial wiring. The course consists of definitions, formulas, wiring methods, overcurrent protection, calculation and sample examinations. Wiring projects are also assigned to put the theories learned in the classroom into practice.

ELE 137 International Residential Code (3)

The IRC (International Residential Code) is the understanding of building of single and two-family dwellings. The student will develop a working knowledge of the code and standards of constructing a dwelling. The electrical student needs the understanding of basic building design to do their work more efficiently. The course will include the requirements for scope and administration, definitions, and building planning. The course will also include general requirements, electrical definitions and services, branch circuit and feeder requirements, wiring methods, and power and lighting distribution.

ELE 140 Residential Wiring I (4)

This course is an introduction to residential wiring methods that includes practical application and hands on experience in implementing code requirements. The student will gain the necessary skills to wire a residence to meet the minimum requirements as set forth in the current National Electrical Code for residential occupancies.

ELE 142 National Electrical Code II (4)

This course is a continuation of the National Electrical Code I course on the use and interpretations of the current national electric code (NEC Chapters 5-9).

ELE 147 International Res Code II (1)

The IRC (International Residential Code) is the understanding of building of single and two-family dwellings. The student will develop a working knowledge of the code and standards of constructing a dwelling. The electrical student needs the understanding of basic building design to do their work more efficiently. The course will include general requirements, electrical definitions and services, branch circuit and feeder requirements, wiring methods, and power and lighting distribution.

ELE 220 Electricity II (6)

This course features a highly illustrated design, technical hints and tips from industry experts, review questions and a whole lot more! Key content includes: Alternating Current, Motors: Theory and Application, Electric Lighting, Conduit Bending, Pull and Junction Boxes, Conductor Installations, Cable Tray, Conductor Terminations and Splices, Grounding and Bonding, Circuit Breakers and Fuses, Control Systems and Fundamental Concepts.

ELE 230 Electricity III (6)

This course features a highly illustrated design, technical hints and tips from industry experts, review questions and a whole lot more! Key content includes: Load Calculations – Branch and Feeder Circuits, Conductor Selection and Calculations, Practical Applications of Lighting, Hazardous Locations, Overcurrent Protection, Distribution Equipment, Transformers, Commercial Electrical Services, Motor Calculations, Voice, Data, and Video, and Motor Controls.

ELE 250 Electrical OJT (6)

This course features a is a hands-on method of teaching the skills, knowledge, and competencies needed for employees to perform in the field of electrical work. Students learn in an environment where they will need to practice the knowledge and skills obtained during their training.

Electricity Heating & Air Cond (EHV) Emergency Communications (DPT)

Emergency Medical Technician (EMS)

EMS 100 Emergency Medical Technician (9)

This program is designed to provide instruction to individuals desiring to provide medical care at the Emergency Medical Technician (EMT) level, a vital link in the health care team chain. Participants will have the opportunity to gain special skills, knowledge, and teamwork concepts necessary for gaining certification and practicing as an EMT in the State of Kansas. This program is approved by the Kansas Board of Emergency Medical Services (KSBEMS) and is based on current information and techniques considered the responsibility of the EMT according to the National EMS Education Standards and the EMT Instructional Guidelines as enriched by the KSBEMS.

Engineering (EG)

EG 105 Introduction to Engineering (3)

Introduction to the professional role of an engineer with an orientation to the academic requirements of engineering studies, responsibilities of engineering students and professionals, discussion of various engineering careers, job site duties, professional development and registration and engineering ethics. Included are problem definition and solution, engineering design and terminology and the role of technology and its influence on society.

EG 116 Engineering Graphics (3)

Elements of geometry of engineering drawing with emphasis on spatial visualization and applications. Freehand sketching, dimensioning, and graphs. Computer aided design and engineering analysis. Prerequisite: EG 105 or consent of instructor.

EG 250 Engineering Mechanics: Statics (3)

Vector notation; resultants of force systems; analysis of force systems in equilibrium including beams, frames and trusses; analysis of systems involving friction forces; determination of centroids, centers of gravity, second moments of areas, moments of inertia. Prerequisites: MA 151 and PS 281.

EG 320 Engineering for STEM Educators (3)

Designed to introduce concepts and applications of engineering to STEM educators. Course will explore various experimental, analysis, and design situations to develop knowledge about how objects work together to perform a function. Experiments will develop an understanding of basic engineering concepts such as motion, solid mechanics, fluid mechanics, thermodynamics, electricity, and magnetism. Analysis of experiments will provide recognition of experimental variables and their relationships to mathematical equations. Significant emphasis is on conceptual understanding of how mathematics and physics work together to solve engineering problems. This course does not satisfy any engineering prerequisite/requirement outside of the STEM education program. Prerequisite: BI 319 Biology for STEM Educators with a "C" or better; concurrent enrollment in MA 320 Mathematics for Middle School Teachers.

EG 351 Engineering Mechanics: Dynamics (3)

Displacement, velocity, and acceleration of a particle; relation between forces acting on rigid bodies and the changes in motion produced; translation; rotation; motion in a plane; solutions using the principles of force, mass and acceleration, work and energy, and impulse and momentum. Prerequisites: EG 250 and MA 152.

EG 360 Mechanics of Materials (3)

Elementary theories of stress and strain, behavior of materials, and applications of these theories and their generalizations to the study of stress distribution, deformation, and instability in the simple structural forms that occur most frequently in engineering practice. Prerequisites: EG 250 and MA 253.

English (EN)

EN 100 Developmental English (3)

Small classes and individual attention, focusing on developing the basic habits of good writing through short writings and culminating in the writing of organized and developed themes. Does not count towards degree credit hour requirements or general education requirements.

EN 101 First Year Writing (3)

Study of and practice with the processes of writing for college courses, especially discovering, drafting, reflecting, revising, and editing. Further attention given to research: rhetorical reading, citation integration, and effective documentation. Required, with a minimum grade of C, for graduation. Prerequisite: None.

(Communication.)

EN 102 Freshman English Honors (3)

The analysis of texts that purport to gather facts, to structure experience into pleasing formal structures, to persuade others to action, judgment, or evaluation, and to articulate principles whose power shapes diverse experiences into meaningful patterns of coherence. The writing of expository prose that communicates thoughtfully and clearly the results of those analyses. Open to those students accepted into the University Honors Program and by invitation from the Composition staff.

EN 103 Academic Reading & Research (3)

This course provides training and practice in academic reading, writing, and research for students who desire more focused instruction in using academic texts, including syllabi, rubrics, textbooks, and articles. There will be instruction and practice in different methods of reading and responding to texts in writing and orally. Students will read a variety of texts, including a book-length text, and will create a culminating project which synthesizes their course reading with personal research. Students who complete the course will be more confident and competent in their interactions with college-level texts. Prerequisite: None.

(General Ed Humanities. Communication.)

EN 105 Introduction to English Studies (3)

This course provides a firm grounding in English as an academic discipline, covering a variety of concepts and approaches critical to English studies. The course will emphasize building students' critical and creative vocabulary, knowledge, and skills in order to foster future success both in English coursework and in their academic careers more generally. Prerequisite: None.

(General Ed Humanities. Critical and Creative Thinking.)

EN 110 Multicultural American Literature (3)

A study of literature written by, and expressing the perspectives of, authors from diverse ethnic, racial, and cultural groups in the United States, including but not limited to Native Americans, African Americans, Asian Americans, and Latino/a Americans, as well as multiracial, multicultural, and other culturally diverse Americans. Course readings include poetry, drama, fiction, and autobiographical non-fiction.

Prerequisite: None.

(General Ed Humanities. Global Citizenship Ethics Div.)

EN 112 Masterpieces of American Literature (3)

Focuses on celebrated and influential works of fiction, drama, and poetry by American authors from the late eighteenth through the early twenty-first centuries. Prerequisite: None.

(General Ed Humanities. Critical and Creative Thinking.)

EN 113 Medieval Popular Culture (3)

In this course, students will discover what life, literature, and culture were like in the Middle Ages and how medieval culture has continued to influence popular culture throughout history up until the present day. From Tolkien's *Lord of the Rings*, to *Game of Thrones* in books and on TV, to Romances, to video games, to Renaissance painting and modern architecture, medieval culture has inspired all sorts of cultural forms and entertainments. Students' investigations into the world of medieval popular culture will be both critical and creative, seeking to understand culture and history, connect culture across periods, and enjoy the fun ways cultural products and ideas, especially but not only literature, are recycled over time in new contexts and for new purposes. Prerequisite: None.

(General Ed Humanities. Critical and Creative Thinking.)

EN 116 Mystery Literature (3)

Mystery fiction, still a popular form of literature today, is a longstanding genre that has been evolving for the last two centuries. The course will examine some of the most important mystery writers of the 19th and 20th centuries. The mystery genre has taken several forms over the years, in large part due to the social history and culture of a particular time period. Over time the mystery genre has shifted from "the novel with a secret" to more complicated examinations of character, an emphasis on psychology over plot, and further explorations of both setting and theme. Many of the novels read are written by authors who became well-known in the mystery genre for developing a certain literary type, technique, or situation that other writers would continue to explore in the years that followed. The course will explore several prominent themes in this type of fiction, in particular the propensity for violence, murder, crime, and the appeal of other taboo subjects. The role of the reader is also critical to the genre as the shadow figure who in part determines which secrets are revealed or disguised, how the characters are developed for a connection to or isolation from the reader, and how the drama itself is written expressly for readers seeking the "thrill" of the mystery. Prerequisite: None.

(General Ed Humanities. Critical and Creative Thinking.)

EN 131 Understanding Short Fiction (3)

This course provides an introduction to reading and analyzing short fiction, with a particular emphasis upon the short story. Readings will include works of short fiction from a range of historical and cultural contexts and will represent a variety of genres. Students will develop a critical vocabulary and analytical skills to foster better understanding of and appreciation for short fiction as a literary form.

(General Ed Humanities. Communication.)

EN 133 Stories Around the World (3)

Focuses on modern and contemporary fiction by European, Latin American, Asian, Middle Eastern, and African authors.

(General Ed Humanities. Global Citizenship Ethics Div.)

EN 135 Introduction to Literature (3)

The appreciation of literature showing relationships through analysis of different genres.

(General Ed Humanities. Critical and Creative Thinking.)

EN 138 Kansas Literature (3)

A study of Kansas through its poetry, short stories, novels, and journalism. Lectures on Kansas history provide background as an aid to better understanding the literature. A study of the literature of pioneering, the small town, and contemporary accounts of Kansas, its land and people.

(General Ed Humanities. Critical and Creative Thinking.)

EN 145 Shakespearean Afterlives (3)

This course considers Shakespeare's plays and the methods and media used to revise and adapt those plays for modern audiences. Students will read selected Shakespeare plays and then read, watch, and play various adaptations and appropriations of those works, focusing on how and why Shakespeare and his plays continue to find new life in print and on-screen. Students will also have the opportunity to create and perform their own versions of Shakespeare's work in the course. Prerequisite: None.

(General Ed Humanities. Critical and Creative Thinking.)

EN 177 Science Fiction (3)

Selected novels and short stories depicting innovations and discoveries in science and their impact on people, society, and the universe.

(General Ed Humanities. Critical and Creative Thinking.)

EN 178 Fantasy (3)

Selected novels and short stories depicting fictive worlds that contemporary knowledge considers impossible.

(General Ed Humanities. Critical and Creative Thinking.)

EN 190 Film Appreciation (3)

Film as a mode of artistic expression with emphasis on selected films, short and feature-length, American and foreign, for understanding and appreciation. Stress will be given to the development of a "vocabulary" with which to discuss, criticize, and otherwise enjoy film art. May be repeated with a change of content.

(General Ed Humanities. Critical and Creative Thinking.)

EN 192 Literature & Film (3)

A study of literary texts and their adaptations into the medium of film, with emphasis on the comparative strengths and weaknesses of each version. Stress will be given to the critical vocabulary shared by these narrative forms.

(General Ed Humanities. Critical and Creative Thinking.)

EN 193 Types of Popular Culture (3)

Examination of subjects and themes in popular literature, with focus on the relationship between popular genres and the traditional canon. May be repeated with change of content.

EN 199 Special Topics - Writing/Reading (1-3)

A variable topic course in selected subjects in literature and language. See schedule for current offerings.

EN 206 Beginning Poetry Writing (3)

An introduction to and practice in the writing of poetry. Prerequisite: EN 101 or EN 102.

(General Ed Humanities. Communication.)

EN 207 Beginning Nonfiction Writing (3)

An introduction to and practice in the writing of memoir, narrative essays, New Journalism, travel writing and other nonfiction forms. Prerequisite: EN 101 or EN 102.

(General Ed Humanities. Communication.)

EN 208 Professional Writing (3)

A review of the basic essentials of business/technical usage and style, with emphasis on organizing ideas and managing basic business and technical writing forms. Prerequisite: EN 101 or EN 102.

(General Ed Humanities. Communication.)

EN 209 Beginning Fiction Writing (3)

An introduction to and practice in the writing of the short story.

Prerequisite: EN 101 or EN 102.

(General Ed Humanities. Communication.)

EN 210 Mythologies in Literature (3)

A study of mythologies that have been a reference point for literature, focusing mainly on Greek and Roman materials, but drawing upon others such as Norse, Celtic, Gaelic, and Eastern. Readings will include both literary works and supplemental texts.

(General Ed Humanities. Critical and Creative Thinking.)

EN 212 Sexuality & Literature (3)

Examines the various roles that sexuality, which includes categories such as intimacy, sex, gender, and sexual orientation, has played in literature and film.

(General Ed Humanities. Critical and Creative Thinking.)

EN 214 Women & Literature (3)

This course surveys literature by women from the medieval to the contemporary periods. Particular attention is given to recurring themes and issues addressed by women writers, as well as how the intersection of gender with factors like class, race, and ethnicity impacts women's experiences and their literary representation. Readings consist of representative works of fiction, poetry, drama, and select nonfiction by women of diverse backgrounds.

(General Ed Humanities. Critical and Creative Thinking.)

EN 235 Survey of Drama I (3)

Greek to Elizabethan. Play reading in historical context. A study of the elements of production and performance practice and style which emerge representative of period. Periods: Greek, Roman, Medieval, Elizabethan. Nations: Europe, Britain, Japan, China, and India. Cross listed with TH 206. Cannot enroll for credit in both EN 235 and TH 206. Not regularly offered.

EN 236 Survey of Drama II (3)

Restoration to Modern. Play reading in historical context. A study of the elements of production and performance practice and style representative of the period. Periods: Restoration, French and Spanish Classicism, Neoclassicism, Realism, Impressionism. Cross listed with TH 207. Cannot enroll for credit in both EN 236 and TH 207. Not regularly offered.

EN 240 Introduction to Film Studies (3)

This course provides students with an introduction to the elements, techniques, and vocabulary critical to the study of film as a medium. The course will emphasize building students' critical vocabulary, knowledge, and skills through the discussion of numerous films from various genres and historical periods. Prerequisite: None.

(General Ed Humanities. Critical and Creative Thinking.)

EN 299 Special Topics - Reading/Writing (1-3)

A variable topic course in selected subject in literature and language. See schedule for current offering. Not regularly offered.

EN 300 Advanced College Writing (3)

Intensive writing and revision practice designed to help students develop skills needed to write successful analyses and arguments in their academic disciplines and their careers. Focus on critical thinking about how writing works in various appropriate contexts and on advanced research writing. Some sections for specific academic programs. Required, with a minimum grade of C, for graduation.

(Communication.)

EN 301 Literary Criticism & Theory (3)

Practical criticism and writing, stressing the types and methods of critical approaches to literature, ancient and modern, and their application in the interpretation of literary works. Students taking the course for graduate credit will write a substantial additional paper focusing on one aspect of the relationship between critical theory and an individual work or author. Prerequisites: EN 101 or EN 102 and EN 300. For EN 601, admission to MLS program or consent.

EN 305 Advanced Fiction Writing (3)

Continued practice in fiction writing with special emphasis on technique. Students taking EN 605 will, in addition to the short stories due as work for 305, revise and edit their stories and write an introduction that shows how their practice of craft has been shaped by their experience in the course. Prerequisite: EN 209 or consent. For EN 605, admission to MLS program or consent.

EN 306 Advanced Poetry Writing (3)

Continued practice in poetry writing with special emphasis on technique. Students taking EN 606 will be required to select at least five of the poems due as work for 306 and write an introduction to those five that shows how their practice of craft has been shaped by their experience in the course. Prerequisite: EN 206 or consent. For EN 606, admission to MLS program or consent.

EN 307 Advanced Nonfiction Writing (3)

Continued practice in the writing of creative nonfiction, including but not limited to personal essay, memoir, literary journalism, travel and science writing. Students taking EN 607 will develop writing projects of considerable length and/or research depth. Prerequisite: EN 207 or consent. For EN 607, admission to the MLS program or consent.

EN 308 Technical Writing (3)

A pre-professional writing course for students entering technical fields. Not regularly offered. Prerequisite: EN 300 or equivalent.

EN 309 ESL Methods & Cross-Cultural Communication (3)

Designed for those who work with non-English speakers. Special emphasis on improving intercultural understanding, on the interaction of language and culture, and on language learning and language teaching. Not regularly offered.

EN 310 English Grammar/Linguistics (3)

Description and analysis of English grammar, its smallest parts up through how those parts are expressed as meaningful discourse. Instruction in how to understand and discuss the English language effectively. Studies the dynamics (formal, historical, social) of language as a particularly human form of communication. Investigates what language is and how it works, how language changes and varies over time and place, and how language is used in social contexts. Students will learn major linguistic categories of phonology (sounds), morphology (words), syntax (sentences), and semantics (meaning), and ask questions about rules and standards of usage, as well as issues of style and politics as they pertain to English language use. Graduate students must write a substantial paper developing in greater detail one of the topics covered in the course. Prerequisite for EN 610: admission to MLS program or consent.

EN 312 Theories of Persuasive Writing (3)

Study of theories about how people use language/writing persuasively to shape knowledge and opinion. The course focuses on selected theoretical readings from the history of mainstream and marginalized rhetorics. The course will build students' understanding of rhetorical theory and their skill in using it to analyze persuasive writing in their areas of interest. Prerequisites: EN 101, First-Year College Writing. Completion of EN 300, Advanced College Writing, or simultaneous enrollment strongly recommended.

(General Ed Humanities. Critical and Creative Thinking.)

EN 315 Reading as Writers (3)

Practice in the study of literature from a writer's perspective, primarily exploring the elements of craft involved in creating literary art (point of view, voice, style, prosody, figurative language, diction, syntax). Through critical analysis, aesthetic investigation, and imitation, students will discover the various tools writers employ to create meaning. Students taking EN 615 will be expected to write a paper of 20 pages analyzing the elements of craft involved in one or more essays by a non-fiction writer chosen in consultation with the professor. Prerequisite for EN 615: admission to MLS program or consent.

EN 320 Teaching Young Adult Literature (3)

This course provides pre-service teachers intensive instruction in ways to teach young adult literature at the middle school and high school levels, including a focus on reading strategies, response strategies, reading engagement and motivational strategies, discussion strategies, lesson design, and instruction. Attention will also be given to the content and history of young adult literature, the diversity inherent in the genre, and censorship and selection of young adult literature. Prerequisite: None.

EN 321 Teaching Composition (3)

Students will conduct, review, analyze, and discuss the teaching of composition, applying the best research-based strategies for elementary- and secondary-level learners from diverse perspectives. Pre-service teachers of literacy will explore writing as a process and develop instructional practices that will increase their students' writing abilities across the curriculum. Students will also reflect on their learning as they study and practice instructional methods in microteaching opportunities. The course will emphasize the writing process, purposes of writing, grammar and conventions, response groups, multigenre writing, research writing, technology resources, struggling writer strategies, instructional practice and design strategies, and assessment and evaluation techniques. Prerequisites: EN 300.

EN 325 British Literature Through 1785 (3)

Covers major literary movements, major authors, and the careful reading of masterpieces through 1785. Students in 625 will write a substantial paper, including scholarship, on selected works of a single author from the Middle Ages, Renaissance, or 18th Century on a topic chosen in consultation with the professor. Prerequisite for EN 625: admission to MLS program or consent.

EN 326 British Literature since 1785 (3)

This course examines the major literary movements in Britain from the Romantic period to the present in relation to their historical and cultural contexts. This class also surveys how the genres of poetry, the novel, the short story, and drama emerge and evolve through the late eighteenth to the early twenty-first centuries. Students in EN 626 will write an extended research paper on a topic chosen in consultation with the instructor. Prerequisite for EN 626: admission to MLS program or consent.

EN 330 American Literature through 1865 (3)

The course provides a survey of early American literature from pre-Columbian legends through the end of the Civil War. Graduate students will be required to investigate in depth one of the following areas: colonial literature, early national literature, or the literature of the American Renaissance. Prerequisite for EN 630: admission to MLS program or consent.

EN 331 American Literature since 1865 (3)

The course provides a survey of American literature from the Civil War to the present in historical and generic contexts. It stresses close readings of individual texts of fiction, poetry, and drama. Graduate students will select one major author and examine his/her treatment in literary criticism during last fifty years. Prerequisite for EN 631: admission to MLS program or consent.

EN 332 Literature of American West (3)

Focuses on the fiction, but also includes the autobiographies, poetry, and/or essays, of authors shaped by the landscape, diverse peoples, and values of the American west.

(General Ed Humanities. Critical and Creative Thinking.)

EN 336 Contemporary Theatre (3)

A study of developments in playwriting, directing, acting since WWI to the present with special emphasis on influences that have affected contemporary theatre and drama. Graduate students must prepare an oral report on an assigned work of literary (or dramatic) criticism and must write a research paper of 15-20 pages with full scholarly apparatus. Cross listed with TH 306. Cannot enroll for credit in both EN 336 and TH 306. Prerequisite for EN 636: admission to MLS program or consent. Not regularly offered.

EN 337 Short Story (3)

This course provides an introduction to the history and characteristics of the short story as a literary form. Students will read representative works of short fiction from a variety of cultural and historical contexts in order to better understand how writers have adapted the short story form to represent the diverse range of human experience.

EN 345 Shakespeare (3)

Students read, discuss, and write on some of Shakespeare's poetry and a selection from the Comedies, Tragedies, and Histories. Consideration of historical and cultural contexts of the plays, as well as their performance history, will help us appreciate both the works and the culture which inspired them. Graduate students will conduct primary research on topics of their choosing. Prerequisite for EN 645: admission to MLS program or consent.

EN 350 Major Authors (3)

The advanced study of a major literary author or two authors. Special attention will be paid to the evolution of an author's writing style within the historical and cultural framework in which he or she was writing. May be repeated with change of content. Prerequisite: None.

EN 360 World Literature through 1650 (3)

This course focuses on close readings of masterpieces in world literature to 1650 in relation to their historical and cultural contexts. Attention is given to authors and genres of central importance, and how emerging themes evolve over the centuries. Prerequisite: None.

EN 361 World Literature since 1650 (3)

This course focuses on close readings of masterpieces in world literature from 1650 to the present in relation to their historical and cultural contexts. Attention is given to authors and genres of central importance, and how emerging themes evolve. Prerequisite: None.

EN 370 Medieval Literature (3)

A survey of English literature in the Middle Ages with special emphasis on the works of Chaucer. Special attention to the contextual relationship of literature and the thought and culture of the period. Prerequisite for EN 670: admission to MLS program or consent.

EN 371 Renaissance Literature (3)

A survey of the literature written from 1475 to 1660, focusing on major poets and dramatists, such as Spenser, Shakespeare, Jonson, Donne, and Milton, but also lesser-known writers such as the Countess of Pembroke and Aemilia Lanyer. Special attention to the contextual relationship of literature and the thought and culture of the period. Graduate students will additionally write a substantial research paper on a topic of their choosing. The course also requires two class presentations on selected writers of the period, drawing on current scholarly criticism. Prerequisite for EN 671: admission to MLS program or consent.

EN 372 Restoration & 18th Century Literature (3)

A survey of the principal genres and major authors of literature written between 1660 and 1800. The course may emphasize a certain genre such as the novel or satire, or an individual author such as Jonathan Swift, Aphra Behn, Samuel Johnson, Henry Fielding, or Fanny Burney. Special attention to the contextual relationship of literature and the thought and culture of the period. Graduate students must present an oral report on an assigned work of literary (or dramatic) criticism and must additionally write a substantial research paper with full scholarly apparatus. Prerequisite for EN 672: admission to MLS program or consent.

EN 373 Romantic & Victorian Literature (3)

Readings in Romantic and Victorian literature. The course begins with Wordsworth's expressions of religion in nature, working through selections from the other major Romantics, and concludes with the prophetic and public solutions to the problems of industrial England offered by Carlyle, Tennyson, Ruskin, and Arnold. Special attention to the contextual relationship of literature and the thought and culture of the period. Graduate students must present an oral report on an assigned work and must additionally write a substantial research paper with full scholarly apparatus. Prerequisite for EN 673: admission to MLS program or consent.

EN 374 Modern Literature (3)

Readings will cover the expressions of Modernism in all the major creative arts with primary focus on the reading and analysis of selected "modernist" literary writers from the genres of fiction, poetry, and drama. Some attention to defining the concept and historical parameters of "modernist". Prerequisite for EN 674: admission to MLS program or consent.

EN 375 Contemporary Literature (3)

Readings in the literary milieu from 1960 to the present in poetry, short fiction, and the novel with attention to the cultural, social, and historical context of individual works and their authors. Graduate students will additionally write a substantial paper, including contemporary scholarship, examining one author, theme, or movement from this period. Prerequisite for EN 675: admission to MLS program or consent.

EN 376 Nineteenth Century American Literature (3)

Readings in nineteenth century American literature from the rise of literary nationalism through the Gilded Age, with special focus on the major literary movements of the period. Graduate students must write a research paper of 15-20 pages with full scholarly apparatus. Prerequisite: None.

EN 380 Modern Poetry (3)

Major British and American poets from about 1890 to 1945, including Yeats, Eliot, and Frost. Prerequisites: None.

EN 381 Drama (3)

A study of drama as a literary form. Students will read representative works of drama from a variety of contexts. Graduate students will complete additional assignments appropriate to the post-baccalaureate level. Prerequisite for EN 681: admission to MLS program or consent.

EN 382 Modern Novel (3)

This course will examine the novel as a literary form, paying particular attention to the origins and development of the genre from the 18th century through to the contemporary period. Graduate students will complete additional writing and research in consultation with the professor. Prerequisite for EN 682: admission to MLS program or consent.

EN 384 Publishing Lab (3)

Students gather, evaluate and edit creative manuscripts to produce and publish a literary magazine. Prerequisite: EN 305, EN 306, or EN 307.

EN 385 Directed Reading/Writing/Research (1-3)

Designed to investigate a field of special interest which will not be covered in detail in the courses offered by the department. After securing the approval of the chairperson of the department and the consent of a member of the department who is prepared to supervise their reading, students will carry out their projects with the supervising teacher. Prerequisite: consent of instructor.

EN 390 Aspects of Film (2-3)

Variable specified content in film, such as the American novel into film, the science fiction film, western novels in film. May be repeated with change of content.

EN 393 Literature of Pop Culture (3)

The study of such individual literary topics as the western, detective fiction, sports literature, and prizewinning novels. Students taking this course as 693 will write a substantial paper, including scholarly research, examining one author, theme, or movement in the genre under consideration. The topic will be chosen in consultation with the instructor. May be repeated with change of content. Prerequisite for EN 693: admission to MLS program or consent.

EN 396 Topics in Women & Literature (3)

An advanced study of the works of a major woman author, the women writers of a particular period or in a particular genre, or a thematic study of women writers. Not regularly offered. Prerequisite: 3 hours of one of the following: EN 330, EN 331, EN 360, or EN 361. For EN 696: admission to MLS program or consent.

EN 399 Special Topics - Writing/Reading (1-3)

See schedule for the current offerings.

EN 400 Senior Seminar (3)

This capstone course serves as the culminating experience for the literature emphasis of the English major. Students work together as a class with a faculty member on a specific topic of ongoing research in the faculty member's area of expertise. Prerequisites: English literature major, senior status, and consent.

EN 402 Internship (1-3)

Applicants should be majors and minors who have second semester junior or senior status, and the approval of their academic advisor and the internship coordinator. Interns will be supervised by the internship coordinator and a workplace supervisor(s). Prerequisites: 15 hrs. of English courses completed, including EN 105, EN 300, and 9 hours at the 300 level, as well as a 3.0 GPA in English coursework.

EN 499 Special Topics - Teaching and Study of English (1-3)

Special topics of a varying nature for teachers doing in-service work, for graduate students in education and English education, and upper-division English majors. Not regularly offered.

EN 601 Literary Criticism and Theory (3)

Practical criticism and writing, stressing the types and methods of critical approaches to literature, ancient and modern, and their application in the interpretation of literary works. Prerequisites: EN 101, or EN 102, or EN 300 or equivalent and admission to the MLS program or consent.

EN 605 Advanced Fiction Writing (3)

Continued practice in fiction writing with special emphasis on technique. Additional requirement: Students taking EN 605 will, in addition to the 8 short stories due as work for EN 305, revise and edit 3 of their stories and write an introduction to those three that shows how their practice of craft has been shaped by their experience in the course. Prerequisites: EN 209 and admission to the MLS program or consent.

EN 606 Advanced Poetry Writing (3)

Continued practice in poetry writing with special emphasis on technique. Additional requirement: Students taking EN 606 will be required to select at least five of the poems due as work for EN 306 and write an introduction to those five that shows how their practice of craft has been shaped by their experience in the course. Prerequisites: EN 206 and admission to the MLS program or consent.

EN 607 Creative Writing, Nonfiction (3)

Continued practice in the writing of creative nonfiction, including but not limited to personal essay, memoir, literary journalism, travel and science writing. Students taking EN 607 will develop writing projects of considerable length and/or research depth. Prerequisites: EN 207 or consent. For EN 607, admission to the MLS program or consent.

EN 610 English Grammar/Linguistics (3)

Surveys different points of view about language, including traditional grammar and an introduction to transformational grammar. Topics include: phonology, morphology, history of the language, psycholinguistics, language acquisition, dialects, syntax and sentence combining, and their implications for language learning at all levels. Graduate students must write a 12-page paper developing in great detail one of the topics covered in class. Prerequisites: Admission to the MLS program and consent.

EN 615 Reading as Writers (3)

Practice in the study of literature from a writer's perspective, primarily exploring the elements of craft involved in creating literary art (point of view, voice, style, prosody, and figurative language, diction, syntax). Through critical analysis, aesthetic investigation and imitation, students will discover the various tools writers employ to create meaning. Additional requirements: Students taking EN 615 will be expected to write a paper of 20 pages analyzing the elements of craft involved in one or more essays by a nonfiction writer chosen in consultation with the professor. Prerequisites: Admission to the MLS program or consent.

EN 620 Teaching Young Adult Lit (3)

This course provides pre-service teachers intensive instruction in ways to teach young adult literature at the middle school and high school levels, including a focus on reading strategies, response strategies, reading engagement and motivational strategies, discussion strategies, lesson design, and instruction. Attention will also be given to the content and history of young adult literature, the diversity inherent in the genre, and censorship and selection of young adult literature. Prerequisite: Admission to the MLS program or consent.

EN 625 Survey of English Literature I (3)

Major literary movements, major authors, and the careful reading of masterpieces through the mid-eighteenth century. Special attention to the history of the English language as a literary medium. Additional requirements: students in EN 625 will write a fifteen-page paper on selected works of a single author from the middle ages, renaissance, or 18th century. The specific topic must be approved by the professor. Prerequisite: Admission to the MLS program or consent.

EN 626 English Literature II (3)

Major literary movements, major authors, and careful reading of masterpieces from the romantic period to the present. Additional requirements: Students in EN 626 will write a fifteen-page paper, including scholarship, on selected works of a single author from the period. The specific topic will be arranged in consultation with the instructor. Prerequisites: Admission to the MLS program or consent.

EN 630 American Literature I (3)

Survey of early American literature, from pre-Columbian legends through literature of 1850s. Graduate students are required to investigate in-depth one of the following areas: colonial, early national, or American Renaissance literature. Prerequisites: Admission to the MLS program or consent of instructor.

EN 631 American Literature II (3)

Survey of American literature from Civil War to present in historical and generic contexts. Stresses close readings of individual texts of fiction, poetry, and drama. Graduate students select one major author and examine their treatment in literary criticism during last fifty years. Prerequisite: Admission to MLS program and consent of instructor.

EN 636 Contemporary Theater (3)

A study of developments in playwriting, directing, and acting from WWI to the present with special emphasis on influences that have affected contemporary theater and drama. Additional requirements: Students must present an oral report on an assigned work of literary (or dramatic) criticism and must write a research paper of 15-20 pages with full scholarly apparatus. Prerequisites: Admission to the MLS program or consent.

EN 645 Shakespeare (3)

Students read, discuss, and write on some of Shakespeare's poetry and a selection from Comedies, Tragedies, and Histories. Consideration of historical and cultural context of the plays, as well as their performance history, to help appreciate the works and the culture which inspired them. Graduate students conduct primary research on topics of their choosing. Prerequisites: Admission to the MLS program and consent of instructor.

EN 660 World Literature I (3)

Readings in the great works of world literature in translation (from Europe, Asia, Latin America, Africa) from ancient times to 1600. Additional requirements: Students will write a paper of substantial length explaining how knowledge of some aspect of world culture helps in the understanding of a work discussed in class. Scholarly references must be included. Prerequisites: Admission to the MLS program or consent.

EN 661 World Literature II (3)

Readings in the great works of world literature in translation from 1600 to the present. Additional requirements: Students will write a paper of substantial length explaining how knowledge of some aspect of world culture helps in the understanding of a work discussed in class. Scholarly references must be included. Prerequisites: Admission to the MLS program or consent.

EN 670 Medieval Literature (3)

Survey of English literature in the Middle Ages. Emphasis on the works of Chaucer. Includes the contextual relationship of literature and the thought and culture of the period. Prerequisite: Admission to the MLS program or consent.

EN 671 Renaissance Literature (3)

A survey of the literature written from 1475 to 1660, focusing on major poets and dramatists, such as Spenser, Shakespeare, Jonson, Donne, and Milton, but also lesser-known writers such as the Countess of Pembroke and Aemilia Lanyer. Special attention to the contextual relationship of literature and the thought and culture of the period. Additional requirements: Graduate students will write one short analytical paper and a longer (15-20 pages) research paper on a topic of their choosing. The course also requires two class presentations on selected writers of the period, drawing out current scholarly criticism. Prerequisite for EN 671: Admission to the MLS program or consent.

EN 672 Restoration and Eighteenth-Century Literature (3)

A survey of the principal genres and major authors of literature written between 1660 and 1800. The course may emphasize a certain genre such as the novel or satire, or an individual author such as Jonathan Swift, Aphra Behn, Samuel Johnson, Henry Fielding, or Fanny Berney. Special attention to the contextual relationship of literature and the thought and culture of the period. Graduate students must present an oral report on an assigned work of literary (or dramatic) criticism and must write a research paper of the 15-20 pages with full scholarly apparatus. Prerequisites: Admission to the MLS program or consent.

EN 673 Romantic/Victorian Literature (3)

Readings in Romantic and Victorian literature. The course begins with Wordsworth's expressions of religion and nature, working through selections from the other major Romantics, and concludes with the prophetic and public solutions to the problems of industrial English offered by Carlyle, Tennyson, Ruskin, and Arnold. Special attention to the contextual relationship of literature and the thought and culture of the period. Additional requirements: Students must present an oral report on an assigned work and must write a research paper of 15-20 pages with full scholarly apparatus. Prerequisites: Admission to the MLS program or consent.

EN 674 Modern Literature (3)

Readings will cover the expressions of Modernism in all the major creative arts with primary focus on the reading and analysis of selected "modernist" literary writers from the genres of fiction, poetry, and drama. Some attention to defining the concept and historical parameters "Modernists". Prerequisites: Admission to the MLS program or consent.

EN 675 Contemporary Literature (3)

Readings in the literary milieu from 1960 to the present in poetry, short fiction, and the novel with attention paid to the cultural, social, and historical context of individual works and their authors. Additional requirements: Students will write a 20-page paper, including contemporary scholarship, examining one author, theme, or movement studied in the class. Prerequisites: Admission to the MLS program or consent.

EN 680 Modern Poetry (3)

Major British and American poets from about 1890 to 1945, including Yeats, Eliot, and Frost. Graduate students will write a paper of approximately 20 pages, including critical apparatus, examining one author, theme, or movement from this period. Prerequisites: Admission to the MLS program or consent.

EN 681 Drama (3)

The study of drama as a literary form. Additional requirements: Students will write a paper of 15-20 pages, including scholarly apparatus, examining one author, theme, movement, or context for dramatic literature. Prerequisites: Admission to the MLS program or consent.

EN 682 Modern Novel (3)

A survey of the art and vision of the novel as a modern expression of world literature. Special attention to the contribution of non-western literature to the development of the narrative form. Additional requirements: Students will write a paper of 15-20 pages, including scholarly apparatus, examining a novel or novels from this period, the work to be chosen in consultation with the professor. Prerequisites: Admission to the MLS program or consent.

EN 685 Directed Reading, Writing, Research (1-3)

Designed to investigate a field of special interest which will not be covered in detail in the courses offered in the department. After securing the approval of the chairperson of the department and the consent of a member of the department who is prepared to supervise their reading, students will carry out their projects with the supervising teacher. Prerequisite: Admission to the MLS program and consent of instructor.

EN 693 Literature of Popular Culture (3)

Study of such individual literary works as the western, detective fiction, sports literature, and prize-winning novels. May be repeated with change of content. Additional requirements: Students will write a paper of approximately 20 pages, including scholarly research, examining one author, theme, or movement in the genre under consideration. The topic will be chosen in consultation with the instructor. Prerequisites: Admission to the MLS program or consent.

EN 699 Spec Topics: Writing/Research (1-3)

A variable topic graduate-level course in selected subjects in literature and language. Prerequisites: Consent of instructor.

Foreign Language (FL)

FL 100 Specified Topics (2-4)

Custom designed curriculum for elementary-level training in foreign language.

FL 101 Beginning Foreign Language I (4)

Introduction to conversation, reading, grammar and composition in foreign languages not regularly offered. Development of aural/oral skills and emphasis on contemporary culture and social customs of the language area.

FL 102 Beginning Foreign Language II (4)

Continuation of FL 101. Prerequisite: FL 101 or consent of instructor. (General Ed Humanities. Global Citizenship Ethics Div.)

FL 190 Study Abroad in a Non-Program Language (1-12)

Students who are planning to study abroad in a country whose language is not offered in a Washburn University program must use this course to transfer their credits.

FL 200 Specified Topics/Foreign Language (3)

Continuation in the specified topic of FL 100. Prerequisite: FL 100.

FL 201 Intermediate Foreign Language I (3)

This course is intended as reinforcement of the 5 skills learned in FL 102: speaking, listening, reading, writing, and culture. This course is the continuation of FL 102.

FL 202 Intermediate Foreign Language II (3)

This course is the continuation of FL 201.

FL 207 Conversation (3)

Vocabulary expansion, stressing everyday practical usage. Development of oral/aural skills on cross-cultural topics. Stress on tradition and current political/social developments. May be repeated for credit when the language studied is different. Prerequisite: Consent of Instructor.

FL 209 Reading & Conversation (3)

Development of oral/aural proficiency through the reading of short literary works as a basis for discussion. Comparison between materials read and life patterns in order to understand a different cultural heritage. May be repeated for credit when the language studied is different. Prerequisite: FL 207

FL 290 Study Abroad in a Non-Program Language (1-12)

Students who are planning to study abroad in a country whose language is not offered in a Washburn University program must use this course to transfer their credits back. Prerequisite: 1st year of college level coursework in the target language.

FL 399 Spec. Tpcs in Frgn Lit/Cltr (3)

FL399 Special Topics in Foreign Literature or culture: Study of individual authors, literary and/or cultural topics. May be repeated. Prerequisite: Consent of instructor.

French (FR)

FR 101 Beginning French I (4)

Introduction to conversation, reading, grammar, and composition. Development of oral/aural skills. Particular emphasis on contemporary culture and social customs in the French-speaking countries. An audiovisual program to develop phonological skills is a component of this course. Offered fall semester only. No prerequisite.

FR 102 Beginning French II (4)

Continuation of French 101. Offered spring semester only. Prerequisite: FR 101 or two years of high school French, or consent of instructor. (General Ed Humanities. Global Citizenship Ethics Div.)

FR 105 Intensive Beginning French I & II (8)

Same content as FR 101 and FR 102 but accomplished in one semester of intensive study. Equal emphasis of the development of the four skills – listening, speaking, reading, writing. Class conducted in French, active preparation and participation required. Not open to native speakers of French or students who receive credit in FR 101 and FR 102. Recommended for students who have already had some high school French.

FR 201 Intermediate French I (3)

This course is intended as reinforcement of the 5 skills learned in FR 102: speaking, listening, reading, writing and culture. Offered fall semester only. Prerequisite: FR 102 or 3 years of high school French with B or better.

(General Ed Humanities. Global Citizenship Ethics Div.)

FR 202 Intermediate French II (3)

This course is the continuation of FR 201. Offered spring semester only. Prerequisite: FR 201 or consent of the instructor.

(General Ed Humanities. Global Citizenship Ethics Div.)

FR 207 French Conversation (3)

Vocabulary expansion, stressing everyday practical usage. Development of oral/aural skills in conversations on cross-cultural topics. Stress on traditions and current political/social developments in French-speaking countries. Use of magazines, newspapers, and other topical materials as basis for conversation. Prerequisite: FR 202 or three years of high school French, or consent of instructor.

FR 274 Independent Study (1-3)

Directed study. May be repeated. Prerequisite: Consent of instructor.

FR 290 Study Abroad French Speaking Country (1-15)

Students who are planning to study in a French speaking country should enroll under this number after consultation with their major advisor. Prerequisite: 1st year university-level French (FR 101/FR 102) or equivalent.

FR 295 Faculty Led Program French Speaking Country (1-6)

Students who plan to study French in a French speaking country in a program led by a faculty member at Washburn should enroll in this class. Prerequisite: Consent of Faculty Group Leader.

FR 307 Contemporary French Civilization (3)

This course is an introduction to contemporary France. We will study France through its regions, its politics, and its relations with Europe and the United States. We will look at the different institutions that participate in the construction of identities in France, as well as moments when individuals or groups “disidentify” with the nation. THIS COURSE IS TAUGHT IN ENGLISH. French majors may enroll in this course and use it as an elective if they do not have FR 308 and FR 309.

(General Ed Humanities. Global Citizenship Ethics Div.)

FR 308 French Literature in Translation (3)

This course introduces students to some of the most important French speaking thinkers (writers, poets, and film directors). An emphasis on historical and cultural context will provide students with a better understanding of literary texts and culture. Each course is organized around one theme or question subject to change. Students will enhance their skill of analyzing narrative [literature, films] and gain an understanding of historical and cultural aspects in the modern French-speaking world. Students will work on producing good academic prose, clear and concise essays on novels, plays, poems, films and/or theoretical works studied in class. Selected films in French will be shown with English subtitles. Class will be conducted in English and it is only valid for the major in the language as a correlated course. Prerequisite: Sophomore Standing or Consent of Instructor.

(General Ed Humanities. Global Citizenship Ethics Div.)

FR 309 French Fiction and Films (3)

This class is taught in English and is intended for students who have an interest in French literature and French cinema. This course will include films which are adopted from novels or short stories and students will examine the influence of literature on films. The texts will be translated from the French and the films will be subtitled. No knowledge of French is necessary. French majors may enroll in this course and use it as an elective if they do not have FR 307 and FR 308.

(General Ed Humanities. Global Citizenship Ethics Div.)

FR 311 French Grammar Review (3)

Comprehensive review of French Grammar with emphasis on the development of free composition. Stress on grammatical accuracy, clarity, and the appropriate use of idioms and syntax. Offered fall semester only. Prerequisite: FR 202 or consent of the instructor.

FR 312 French Composition (3)

Development of grammatical accuracy and proficiency in composition. Use of readings to illustrate grammatical points and form the basis for composition and discussion. Offered spring semester only. Prerequisite: FR 311 or consent of the instructor.

FR 315 Translation (3)

French-English and English-French translation of a variety of texts. Focus on techniques of translation and improving French grammar, syntax and idioms. Prerequisite: FR 312 or consent of instructor.

FR 320 French Phonetics (3)

Systematic study of the sound system of the French language meant for the student of French who wants to improve his/her pronunciation and learn how the sounds are formed. Prerequisite: FR 312 or consent of instructor.

FR 321 French for Business (3)

This course is meant for the student of French who already has a good command of written and oral French and who wants to acquire vocabulary of the business world. Topics such as banking, insurance, transportation are covered in the course. Prerequisite: FR 312 or consent of instructor.

FR 324 French Civilization (3)

A systematic study of France from its beginning to the present from a historical and social perspective. Prerequisite: FR 312 or consent of instructor

FR 326 La France Contemporaine (3)

Readings from contemporary sources, including magazines and newspapers for discussion and composition. Prerequisite: FR 312 or consent of instructor.

FR 331 Introduction to French Literature (3)

Analysis of selected texts from various genres, poetry, theatre and novels. Emphasis on Explication de textes. Prerequisite: FR 312 or consent of instructor.

FR 350 Masterpieces of French Literature (3)

Readings of unabridged works from the Middle Ages through the 19th century. Written and oral discussion of the literary significance of the works, as well as their socio-historical background. Prerequisite: FR 312 or consent of instructor.

FR 353 Survey of 20th Century French Literature (3)

Readings of 20th century unabridged novels, plays, and poetry. Written and oral discussion of the literary significance of the works, as well as their socio-historical background. Prerequisite: FR 312 or consent of instructor.

FR 374 Independent Study (1-3)

Directed study. May be repeated. Prerequisite: Consent of instructor.

FR 375 French Seminar (3)

Application of the techniques of literary analysis to particular authors or literary movements. May be repeated. Prerequisite: Consent of instructor.

FR 390 Study Abroad French Speaking Country (1-15)

Students who are planning to study in a French speaking country should enroll under this number after consultation with their major advisor. Prerequisite: 2nd year university-level French (FR 201/FR 202) or equivalent.

FR 395 Faculty Led Program French Speaking Country (1-6)

Students who plan to study French in a French speaking country in a program led by a faculty member at Washburn should enroll in this class. Prerequisite: Consent of Faculty Group Leader.

FR 399 Special Topics/French (3)

Study of individual authors or literary topics. May be repeated. See chairperson and/or schedule for current offerings. Prerequisite: Consent of instructor.

FR 400 Senior Thesis (3-6)

A major research project culminating in a thesis which deals with a literary topic, or other topics as approved by the thesis director. May be presented to the departmental faculty for consideration for departmental honors. Prerequisite: Senior standing.

FR 674 Independent Study (3)

Directed study. May be repeated. Prerequisites: Admission to the MLS program and consent of instructor.

FR 699 Special Topics/French (3)

Study of individual authors or literary topics. Prerequisites: Admission to the MLS program or instructor consent.

Geography (GG)

GG 101 Introduction to Geography (3)

A study of the principal themes of geography: human and environment in interaction, the patterns of distribution of natural phenomena affecting human use of the earth, and the cultural patterns of occupancy and exploitation of the physical world. This course satisfies general education requirements.

(General Ed Social Science. Global Citizenship Ethics Div.)

GG 102 World Regional Geography (3)

World regional geography is a comparative study of physical and human environments of world realms and the interplay of forces which gives each realm its distinctive character. This course satisfies general education requirements.

(General Ed Social Science. Global Citizenship Ethics Div.)

GG 151 Urban Geography (3)

This course examines the geographic origins and development of urbanism, with special emphasis on physical attributes of site and spatial attributes of situation.

GG 201 Environmental Geography (3)

Also known as physical geography, this course introduces students to the distribution and components of the natural environment, including climate, biomes, soils, vegetation and landforms. The course also examines the interactions between these elements, and the effects of humans on the natural environment. Prerequisite: GG 101.

GG 220 Special Topics/Geography (3)

Topics will vary from semester to semester and will be announced in advance. Prerequisite: 3 hr GG or consent

GG 300 Special Topics/Geography (3)

Topics will vary from semester to semester and will be announced in advance. Prerequisite: 3 hr GG or consent

GG 302 Natural Resources Conservation (3)

A study of the principles of natural resource conservation and management, particularly as they relate to human populations, soil conservation and agriculture, water and air pollution and energy resources. Human activities that affect preservation, conservation, and multiple uses and options in a sustainable economy and society are emphasized. Prerequisite: GG 101.

GG 303 Introduction to Land Use (3)

Students are introduced to the conceptual basis of land use planning as it relates to the determinants, classification and survey, and environmental and fiscal impact analysis of the controlled use of land. The course also examines zoning and subdivision regulations in the approaches to land use planning at local, state and national levels. Prerequisite: GG 101.

GG 304 Geography of Kansas (3)

This course is a survey of the distributions and interrelationships of various physical, cultural and economic phenomena of the state. Topics include physiographic regions, settlement patterns, agricultural and urban geography. The High Plains, the Southeastern mining areas, and the urban Northeast regional cultures are examined. Prerequisite: Second semester sophomore status.

GG 325 Introduction to GIS (3)

As one of the most important areas in geography, Geographic Information System (GIS) is widely used in various disciplines for storing, sharing, displaying, analyzing and managing geographically referenced information. The objectives of this class are to provide a firm conceptual and technical understanding of how to present, synthesize, process and analyze geographic data. This class will have both a lecture and a lab session and the lab is taught using ArcGIS 10.5.1 (ESRI, Inc.). This class serves as a pre-requisite for the class of GG 326 Advanced GIS. No prerequisites.

Geology (GL)

GL 101 Physical Geology (3)

Special emphasis on the observation of the phenomena of erosion, mountain formation, and stream and glacial action. Lecture-recitation and some field trips.

(General Ed Natural Science. Quan and Sci Reason Lit.)

GL 103 Historical Geology (3)

For students interested in the history and evolution of the planet Earth. Lecture and in-class laboratory work will include exercises with commonly found fossils and geologic-topographic maps. Will provide information about the environment of the early Earth and changes through time.

(General Ed Natural Science. Quan and Sci Reason Lit.)

German (GE)

GE 101 Beginning German I (4)

Introduction to conversation, reading, grammar, and composition. Development of oral/aural skills. Particular emphasis on contemporary culture and social customs in the German-speaking countries. An audiovisual program to develop phonological skills is a component of this course. Offered fall semester only. No prerequisite.

GE 102 Beginning German II (4)

Continuation of German 101. Offered spring semester only. Prerequisite: GE 101 or two years of high school German, or consent of instructor.

(General Ed Humanities. Global Citizenship Ethics Div.)

GE 105 Intensive Begin German I & II (8)

Same content as GE101 and GE102 but accomplished in one semester of intensive study. Equal emphasis on the development of the four skills – listening, speaking, reading, writing. Class conducted in German, active preparation and participation required. Not open to native speakers of German or students who receive credit in GE 101 and GE 102. Recommended for students who have already had some high school German.

GE 201 Intermediate German I (3)

This course is intended as reinforcement of the 5 skills learned in GE 102: speaking, listening, reading, writing and culture. Offered fall semester only. Prerequisite: GE 102 or 3 years of high school German with B or better.

(General Ed Humanities. Global Citizenship Ethics Div.)

GE 202 Intermediate German II (3)

This course is the continuation of GE 201. Offered spring semester only. Prerequisite: GE 201 or consent of the instructor.

(General Ed Humanities. Global Citizenship Ethics Div.)

GE 207 Basic German Conversation (3)

Vocabulary expansion, stressing everyday practical usage. Development of oral/aural skills in conversations on cross-cultural topics. Stress on traditions and current political/ social developments in German-speaking countries. Use of magazines, newspapers, and other topical materials as basis for conversation. Prerequisite: GE 202, two years of high school German or consent of instructor.

GE 214 German Reading & Conversation (3)

Prose and poetry selected from German literature, folk culture and public media form the topics for conversation. Prerequisite: GE 202 or consent of instructor.

GE 274 Independent Study (1-3)

Directed study. May be repeated. Prerequisite: Consent of instructor.

GE 290 Study Abroad German Spkg Cntry (1-15)

Students who are planning to study in a German speaking country must enroll under this number after consultation with their major advisor. Prerequisite: 1st year university-level German (GE 101 - GE 102) or equivalent.

GE 295 Fac Led Prog German Spkg Cntry (1-6)

Students who plan to study German in a German speaking country in a program led by a faculty member at Washburn should enroll in this class. Prerequisite: Consent of Faculty Group Leader.

GE 307 Contemp German Civilization (3)

This course is an introduction to contemporary Germany. We will study Germany through its regions, its cultural diversity, its politics, and its relations with Europe and the United States. We will look at the various factors which have impacted modern German life as represented through literature, art, music, and pop culture. THIS COURSE IS TAUGHT IN ENGLISH. German majors may enroll in this course as an elective if they do not have GE 308.

(General Ed Humanities. Global Citizenship Ethics Div.)

GE 308 German Lit in Translation (3)

This course introduces students to some of the most important German speaking thinkers (writers, poets, and film directors). An emphasis on the historical and cultural context will provide students with a better understanding of literary texts and culture. Each course is organized around one theme or question subject to change. Students will enhance their skill of analyzing narrative [literature, films] and gain an understanding of historical and cultural aspects in the modern German-speaking world. Students will work on producing good academic prose, clear and concise essays on novels, plays, poems, films and/ or theoretical works studied in class. Selected films in German will be shown with English subtitles. Class will be conducted in English and it is only valid for the major in the language as a correlated course. Prerequisite: Sophomore Standing or Consent of Instructor.

(General Ed Humanities. Global Citizenship Ethics Div.)

GE 311 German Grammar Review (3)

Comprehensive review of German grammar with emphasis on the development of free composition. Stress on grammatical accuracy, clarity, and the appropriate use of idioms and syntax. Readings illustrate grammatical points and form the basis for composition and discussion. Offered fall semester only. Prerequisite: GE 202 or consent of instructor.

GE 312 Contemporary Written German (3)

Readings from contemporary sources, including magazines, newspapers, and literature form basis for discussion and composition. Development of written style as well as grammatical accuracy and the proper use of idioms. Offered spring semester only. Prerequisite: GE 311 or consent of instructor.

GE 315 Translation (3)

German-English and English-German translation of texts from diverse areas. Focus on techniques of translating German prose texts and improving German grammar, syntax and the use of idioms. Prerequisite: GE 311 or consent of instructor.

GE 321 Business German (3)

Introduction to concepts, vocabulary and language practices basic to doing business with German-speaking people. This course will include components to tie abstract concepts to realities of international business in Kansas. Prerequisite: GE 312 or consent of instructor.

GE 324 German Civilization (3)

Study of geography, the visual arts, architecture, music, literature, the economy, customs, and politics from a historical perspective in order to understand present conditions in German-speaking countries. This course will examine these aspects of German civilization from its beginning to the middle of the twentieth century. Prerequisite: GE 312 or consent of instructor.

GE 326 Contemp German/Austrian Civil. (3)

Continuation of GE 324; deals with the politics, the economy, the social structures, the arts and the geography of these countries from the mid-twentieth century to the present. Prerequisite: GE 312 or consent of instructor.

GE 331 Intro to German Literature (3)

Reading of selected works from various genres, including poetry, theater, and narrative prose fiction, with an emphasis on literary analysis. Prerequisite: GE 312 or consent of instructor.

GE 350 Masterpieces of German Lit (3)

Readings of unabridged works from the Middle-Ages through the 19th century. Written and oral discussion of the works as well as their socio-historical background. Prerequisite: GE 312 or consent of instructor.

GE 353 German Lit of the 20th C. (3)

Readings of modern unabridged novels, plays, short stories and poetry. Written and oral discussion of the literary significance of the works as well as their sociohistorical background. Prerequisite: GE 312 or consent of instructor.

GE 374 Independent Study (1-3)

Directed study. May be repeated. Prerequisite: Consent of instructor.

GE 375 German Seminar (1-3)

Application of the techniques of literary analysis to particular authors or literary movements. May be repeated. Prerequisite: Consent of instructor.

GE 390 Study Abroad German Spkg Cntry (1-15)

Students who are planning to study in a German speaking country should enroll under this number after consultation with their major advisor. Prerequisite: 2nd year university-level German (GE 201 - GE 202) or equivalent.

GE 395 Fac Led Prog German Spkg Cntry (1-6)

Students who plan to study German in a German speaking country in a program led by a faculty member at Washburn should enroll in this class. Prerequisite: Consent of Faculty Group Leader.

GE 399 Special Topics/German (1-3)

Study of individual authors or topics. May be repeated. See chairperson and/or schedule for current offerings. Prerequisite: Consent of instructor.

GE 400 Senior Thesis (3-6)

A major research project culminating in a thesis which deals with a literary topic, or other topics as approved by the thesis director. May be presented to the departmental faculty for consideration for departmental honors. Prerequisite: Senior standing.

GE 674 Independent Study (3)

Directed study. May be repeated. Prerequisites: Admission to the MLS program and consent of instructor.

GE 699 Special Topics/German (3)

Study of individual authors or topics. May be repeated. Prerequisites: Admission to the MLS program and consent of instructor.

Graphics/Printing Technology (GRP)

GRP 110 Graphic Design I (4)

The purpose of this course is to summarize the role served by graphic communications in a technological society and to identify the basic functions of the industry. This course also covers the fundamental principles and elements of design and general layout principles used by graphic designers in the production of visual images. This course introduces students to design software such as Adobe InDesign.

GRP 121 Color Composition (4)

This course will introduce the use of color and composition as they relate to imaging rules of creative element placement and design of an image. Students will learn the psychology of color and how color can affect the message of the design. Prerequisite: GRP110.

GRP 133 Page Layout (4)

This course will teach composition techniques and procedures utilizing page layout software such as Adobe Indesign. The student will explore formatting, alignment, spacing, breaks, tabs, tables, lists, drop caps, margins, columns, and become familiar with typographic details. They will also apply page layout techniques to create balanced and professionally designed materials.

GRP 141 Graphic Design II (4)

This course covers the intermediate principles and elements of design and general layout principles used by graphic designers in the production of visual images. This course will give students the opportunity to work within groups and begin development of skills used when working with clients. This course continues with intermediate skills in design software such as Adobe InDesign, Adobe Illustrator and Adobe Photoshop.

GRP 143 Typography (2)

This course will introduce the use of different styles of typography and how to use them more creatively. Students will learn how different styles of typography can affect the message of the design as well as add impact to their designs.

GRP 148 Vector Based Graphics (3)

A study and use of vector graphics for production. Skill development in the use of the tools and transformation options of Adobe Illustrator to create complex vector illustrations for print and web-based media. Mastery in manipulation of both text and graphics with emphasis on the use of the pen tool as well as the correct use and management of different color modes. Focus on software tools and techniques to capture, correct, create and combine images for print and web. Topics include input devices, resolution, tone and color correction, retouching, painting, drawing, image manipulation, compositing, automation, graphic formats, design and reproduction considerations, interview skills with clients to obtain information. This course continues to master skills in design software such as Adobe Indesign, Adobe Illustrator and Adobe Photoshop.

GRP 163 Digital Printing (3)

Principles of digital imaging technology and the different types of equipment and methods involved in electronic image capture are learned in this course. Students also learn how to prepare digital design and imaging files for successful output. This course will teach proper workflow techniques from file generation to print production. Emphasis is placed on troubleshooting and managing files as well as determining proper file structure based on the required output.

GRP 233 Graphic Design III (5)

This course covers the advanced principles and elements of design and layout principles used by graphic designers in the production of visual images. The projects will become directed more toward working with clients and workplace skills. Students learn to evaluate the project and determine appropriate timeline and tools needed to accomplish the task. Students also learn how to manage multiple projects and deadlines successfully. The students will be given the opportunity to begin working with clients either in person or online. This course continues with advanced skills in design software such as Adobe Indesign, Adobe Illustrator and Adobe Photoshop.

GRP 241 Paper & Bindery (3)

This course covers the different types of paper and other substrates used for printing in the graphics industry. The course also covers various finishing methods and binding techniques.

GRP 244 Raster Based Graphics (4)

This course will teach image composition techniques and procedures utilizing raster graphics software such as Adobe Photoshop. Focus on software tools and techniques to capture, correct, create and combine images for print and web. Topics include input devices, resolution, tone and color correction, retouching, painting, drawing, image manipulation, compositing, automation, graphic formats, design and reproduction considerations. Prerequisite: GRP121

GRP 248 Graphic Design IV (5)

Students who have met grade and attendance requirements will work directly with clients. Students will advance the skills learned in Graphic Design III by further mastering the use of a tracer system and interview skills with clients to obtain information. This course continues to master skills in design software such as Adobe Indesign, Adobe Illustrator and Adobe Photoshop.

GRP 254 Production Graphics (4)

This course will provide students with an on-the-job experience in a graphics setting. May include on-campus virtual internship, job shadowing or off-campus internship.

GRP 258 Portfolio Preparation (3)

This course will cover business operations and job management techniques. Students will learn interview techniques, developing and preparing a resume, digital and physical portfolio, completing job applications, ethics, and teamwork. Students will also participate in mock interviews.

Health (HL)

HL 277 Principles of Health Education and Promotion (3)

Designed to familiarize the student with the purpose, function, organization and administration of health education and promotion services. Some areas to be discussed are history and philosophy of health education, effective settings, behavior change theories, government initiatives, and ethics. Prerequisite: KN 248 or consent of instructor

HL 377 Critical Issues in Health (3)

This course will focus on controversies surrounding a wide range of current health science and personal health issues. When confronted by differing opinions and points of view, it is necessary to use critical thinking skills to comprehend, evaluate and make decisions in the face of uncertainty. Pros and cons of selected issues will be presented through readings, lectures, class discussions and both oral and written presentations. Prerequisite: KN 248 or consent of instructor.

HL 477 Health Program Planning and Evaluation (3)

This course is designed to study the fundamental concepts, models, theories and strategies pertaining to health education and promotion program planning and evaluation. Students will gain practical knowledge and will be expected to develop a comprehensive, theory-based strategy for delivery of a health promotion program, as well as provide for appropriate evaluation mechanisms throughout the program. Prerequisites: HL 277 and HL 377, or consent of instructor.

Health Careers (HCT)

HCT 105 First Aid & CPR (1)

This course is an introduction to basic first aid and included CPR certification. The course provides the basic information and skills needed to meet the American Heart Association standards.

HCT 108 Health Occupations I (4)

Students will learn about a wide variety of careers in allied health fields, job settings, and required training/education and they will do so based upon a body system approach. These careers will be studied utilizing basic disease/illness and wellness/prevention concepts, associated types of patient/disease processes, and the effects of wellness on these processes.

HCT 122 Medical Terminology (2)

The course introduces the student to the language of the medical field. Medical prefixes, suffixes, and combining forms are introduced to the student so they may have a thorough knowledge and understanding of what they are reading and writing in the medical field. An emphasis is placed on terms, pathological conditions, and diagnostic terms.

HCT 128 Nurse Aide (5)

This course provides the student with the knowledge and skills necessary to secure employment as a CNA in the workplace through a combination of classroom instruction, nursing lab skill demonstration/practice, and the opportunity to gain instructor supervised experience in a work setting. This program meets state guidelines for the Kansas Nurse Aide certification testing through Kansas Department of Aging and Disability Services.

HCT 134 Human Growth & Development (3)

This course provides an introduction to physical, cognitive, emotional, and social aspects of human development throughout the life span. It emphasizes developmental processes beginning with conception and continuing throughout childhood, adolescence, adulthood, later life and death. The course focuses on developmental processes, cultural influences, and other factors that make each individual unique. This course takes an inter-disciplinary approach toward human development that is based on science and applied toward the goal of solving important human problems.

HCT 135 CPR (0)

This course is an introduction to basic first aid and included CPR certification. The course provides the basic information and skills needed to meet the American Heart Association standards.

HCT 136 Human Anatomy & Physiology (4)

This course is designed to introduce the student to the structure and function of the following body systems: skeletal, muscular, nervous, sensory, circulatory, respiratory, digestive, and urinary systems. This class offers information concerning normal human structures and functions and the developmental changes that occur during an individual's life span. Students will learn specific information about factors associated with expected and abnormal anatomical and physiological changes associated with the body's major organ systems. This course is designed for students who are interested in pursuing a career in a health occupation.

HCT 137 Human Anatomy & Physiology Lab (2)

This course provides opportunities to observe various anatomical parts and to investigate physiological phenomena. The student will relate specimens, models, microscope slides, and whole body information learned in lecture and read about in the textbook. Study of anatomy of major organ systems includes use of anatomical models and selected preserved animals and organs.

HCT 138 Home Health Aide (2)

This course is designed for the person seeking to provide direct care services to clients in their home. Home Health Aides assist other health care professionals in maintaining and restoring the client to optimum levels of physical and emotional well-being while allowing the client to remain at home. Upon completion of the course students are eligible to receive a certificate after passing the Kansas Department of Aging and Disability Services exam. Prerequisites: CNA certification

HCT 141 Nutrition (3)

This introductory course provides a basic knowledge of human nutrition. Students will learn the sources and functions of the various nutrients. They will also explore the interaction of diet, disease, prevention, and treatment. Through the use of computerized nutrition program, students will analyze their diets for nutritional deficiencies and excesses.

HCT 148 Medication Aide (5)

The Certified Medication Aide (CMA) course is designed for the person seeking work in a long-term care facility. The CMA course introduces the student to basic concepts of medication administration including drug classification, drug action, and nursing implications for specific drugs. Student's participation in hands-on experience in a clinical setting is an integral part of the course. Upon completion of the course, students are eligible to receive a Medication Aide certificate after passing the Kansas Department of Aging and Disability Services exam. Prerequisite: CNA certification

HCT 162 Fundamentals of Phlebotomy (3)

This course is designed to train individuals to properly collect and process blood and other clinical specimens for laboratory testing and to interact with health care personnel, clients, and the general public. Presentation includes equipment and additives, basic anatomy, and techniques for safe and effective venipuncture. Emphasis will be placed on collection techniques, specimen processing, Order of Draw, departments in the clinical laboratory, the tests analyzed in each department, and work flow practices.

HCT 164 Phlebotomy Lab (2)

This course provides the student with knowledge and practical application of basic laboratory skills with a focus on patient care. Students learn and practice basic skills in venipuncture, sterile technique, patient safety, and documentation. There is major emphasis on the critical elements of laboratory procedures and the scientific rationale for performing the procedures correctly.

HCT 166 Phlebotomy Clinical Practicum (2)

A health-related, work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts; direct supervision is provided by the clinical laboratory professional; course provides opportunities to practice phlebotomy skills in a clinical setting; safety, quality control and interpersonal communications will be stressed.

HCT 168 Phlebotomy National Exam Rev. (1)

This course is designed to prepare the student for the ASCP or NHA National Exam. The course will include practice test questions over the topics covered in the didactic course Fundamentals of Phlebotomy.

History (HI)

HI 100 Survey of Early World History (3)

Stone-age origins to c. 1200 CE. Basic introductory survey of earliest eras of world cultures and history. Covers late pre-history; first and classical age civilizations of Mediterranean, Asia, and Americas; and emerging peripheral cultures and civilizations of Africa, Asia, Europe and Americas. **(General Ed Social Science. Global Citizenship Ethics Div.)**

HI 101 Changing World History: Traditions and Transitions (3)

Basic introductory survey of world developments, c. 1200-1750 CE. Begins with Mongol conquests. Continues with resurgence and change in established civilizations of Asia, Africa, Europe and Americas. Traces emergence and impact of modernizing West, early era of world explorations and empire building, and development of global trading networks.

(General Ed Social Science. Global Citizenship Ethics Div.)

HI 102 Modern World History (3)

Basic introductory survey of world developments, c. 1750 to present. Begins with industrialization and political change in the West, producing technologically-advanced Western economic, social and political world dominance. Traces power, processes of decolonization, emerging late 20th-century world economies, states and societies.

(General Ed Social Science. Global Citizenship Ethics Div.)

HI 105 Introduction to World Music and its History (3)

This course explores the history of world cultures by focusing specifically on the development of musical traditions from around the world. Students explore the history and cultural development of selected world cultures, and listen to and analyze the musical traditions from those cultures to understand how a culture's music reflects both its traditions and its interaction with other cultures. Prerequisites: None.

(General Ed Social Science. Global Citizenship Ethics Div.)

HI 111 History of the United States through the Civil War (3)

Survey of American history from the first encounters between American Indians, Europeans, and Africans through the period immediately following the Civil War, which introduces students to the study of the past and familiarizes them with records of American experiences. It exposes students to political, economic, social and intellectual forces shaping the American heritage and contributing to the nation's development. No prerequisites.

(General Ed Social Science. Critical and Creative Thinking.)

HI 112 History of the United States since the Civil War (3)

Survey of American history from the emergence of an urban and industrial society after the Civil War to the present, which introduces students to the study of the past and familiarizes them with records of American experiences. Exposes students to political, economic, social and intellectual factors shaping the American heritage and contributing to the nation's development. No prerequisites.

(General Ed Social Science. Critical and Creative Thinking.)

HI 300 Topics in History (1-3)

Topics will vary from semester to semester and will be announced in advance. Prerequisite: 3 hrs HI or consent.

HI 303 Colonial America to 1763 (3)

Study of the age of exploration and the establishment of the original colonies. Emphasis will be given to the British colonies of the western hemisphere, but the course will also include those colonies of other nations as they affect American growth and development. It will include a broad treatment of social, political, economic and intellectual forces to 1763. Prerequisite: 3 hrs HI or consent.

HI 304 American Revolutionary Period, 1763-1789 (3)

An examination of the problems of Great Britain and the colonies following the French and Indian War. The causes of the American Revolution as well as the events resulting from it will be studied in detail. The critical period, the writing of the Constitution and the laying of the foundations of our government by the Federalists will be analyzed. Prerequisite: 3 hrs HI or consent.

(General Ed Social Science. Critical and Creative Thinking.)

HI 305 Early National United States (3)

This class examines topics and themes in American society, politics, economics, and culture between roughly 1787 and 1850. In this period, deep changes unfolded throughout the young nation. As we will see, America in these years was marked both by more inclusive democracy and greater hierarchy; it became simultaneously more confident and defined as an independent nation, but also more fragmented according to the regional, economic, gender, racial, and ethnic distinctions among its peoples. In our assessment of early national U.S. history, we will pay special attention to the profound economic and cultural upheavals historians refer to as the market revolution as a way to view the period as a whole and to understand the transformations in human experience and national identity that took place during it. Prerequisites: 3 hours of History or permission of instructor.

HI 307 American Civil War: 1848-1877 (3)

A survey of the sectional crisis beginning with the conclusion of the Mexican War in 1848 to resolution of the crisis by 1877. Themes include: the nature of Northern and Southern societies; the political crisis of the 1850s; the relative military strengths of each side; the major battles and campaigns; the Northern and Southern home fronts, the role African-Americans played in their own liberation; the process by which reconstruction first emerged and then collapsed. Prerequisite: 3 hrs HI or consent.

HI 308 Making of Modern America, 1880-1920 (3)

The history of the United States from the end of Reconstruction to World War I. Examines social, political and economical changes. Topics covered include industrialization and its effects, popular culture, reform movements, and immigration. Prerequisite: 3 hrs History or consent.
(General Ed Social Science. Critical and Creative Thinking.)

HI 309 America in the 1920s & 30s (3)

History of the United States from the "Roaring Twenties" through the New Deal. Focuses on the dramatic shifts in American life in the interwar period. Topics of special interest include entertainment and leisure, youth culture, the Great Depression, and the expansion of the American state through New Deal programs. Prerequisite: 3 hrs History or consent.

HI 311 Cold-War America, 1945-1990 (3)

Examines the development of the US as it responds to the pressures of the Cold War, repercussions of the corporate economy, dynamics of changing race relations and the emergence of a New World Order in the 1980s. Prerequisites: 3 hrs. HI or consent.

HI 312 War's Impact on America (3)

A twentieth-century U.S. History course emphasizing social, economic, and cultural implications of American involvement in wars from the First World War through the Gulf War of 1991. The course addresses, from comparative perspective, mobilization and conscription issues, societal implications on the American home front, and civil liberties issues in wartime from the 1910s to the 1990s. Prerequisite: 3 hrs HI or consent.

HI 315 Women in US History (3)

American women's history from the nineteenth century to the present with an emphasis on their role in society, and how women's experiences have been affected by social, economic, and political changes. Prerequisite: 3 hrs HI or consent.

HI 316 History of American Childhood (3)

This course surveys the wide range of historical literature on children and youth in American culture, and considers evolving notions of childhood from America's colonial period to the present. This is a seminar-style, discussion-oriented course, complemented with lectures, films and students' research presentations. Readings will include historical monographs, autobiographies, and primary sources. Grading criteria will be based on students' research and essay-writing, class participation, and a final exam. This course can be utilized toward fulfillment of an upper-division requirement for American history. Prerequisite: 3 hours of History or permission of instructor.

HI 317 Topeka & Urban American History (3)

Explores the development of Topeka within the context of urban growth in America. The first half focuses on individuals, groups, institutions, and ideas that define the nation's urban experience, while the second half weaves Topeka into the pattern. Prerequisite: 3 hrs HI or consent.

HI 319 American Indian History (3)

Examines the history of American Indian societies, concentrating mainly on the period from the 17th century to the present. Emphasizes topics related to sovereignty, intercultural relations, political and economic trends, and the diversity of American Indian cultures. Prerequisite: 3 hrs History or consent.

HI 320 American West (3)

Focuses on the development of the west as a region. It addresses innovative institutions and practices, the changing environment, and the diversity and interaction of cultures. Prerequisite: 3 hrs HI or consent.

HI 322 Kansas History (3)

Social, economic and political history from Spanish explorations to the present, including the role of the native-American, non-English ethnic groups, and women, and the part played by Kansas and Kansans on the national scene. Prerequisite: 3 hrs HI or consent.

HI 325 American Religious History (3)

This course serves as an introduction to religion in American history by focusing upon the impact of religion on American culture and of American culture on religion. It examines the major figures, themes, and theological positions in American religious history from approximately 1600 to the modern era. Prerequisite: 3 hrs HI or consent.

HI 326 Anabaptism: The Radical Reformation and Beyond (3)

This course focuses on the major events, persons, literature, and practices of Anabaptist-related groups from the 16th-century Reformation to the present. History department faculty and guest speakers will trace the evolution of this religious movement from its multi-faceted European origins to diverse contemporary practices of Mennonites, Amish, Hutterites, and other Anabaptists on five continents. Course components include research projects on religious identity formation, storytelling about Anabaptists' lives and essays on novels and other literature drawn from Anabaptist experience. Students taking the course HI-526 for graduate credit will choose an appropriate topic for a research paper utilizing primary and secondary sources, in consultation with the professor. Prerequisites: 3 hours of History or permission of instructor.

(General Ed Social Science. Critical and Creative Thinking.)

HI 328 African-American History (3)

The black experience in America from African origins to the present. Themes to be emphasized include: the process of enslavement, the emergence of African-American culture, the nature of slavery, the struggle for freedom, the migration to the North, the Civil Rights movement, and contemporary issues. Prerequisite: 3 hrs HI or consent.

HI 329 Civil Rights Movement (3)

Examines the way black and white Americans have redefined race relations between the mid-1950's and mid-1980's. Class discussion comprises a significant portion of the course. Prerequisite: 3 hrs HI or consent.

HI 330 Ancient/Medieval Europe to 1400 (3)

The development of Greek civilization through the Hellenistic period, the phases of Roman civilization, and the forms of civilization in Europe in the wake of the Roman collapse (including feudal and manorial structures, the spread of Christianity, and the first stages of the emergence of nation states). Prerequisite: 3 hrs HI or consent.

HI 331 Early Modern Europe, 1300-1750 (3)

Covering the Italian Renaissance and its diffusion to the north, the Reformation as social and political as well as a religious movement, the conditions that fueled the European Age of Exploration, the consolidation of nationstates, and the formation of a trans-Atlantic trade network grounded on slavery. Prerequisite: 3 hrs HI or consent.

HI 332 Modern Europe, 1750-Present (3)

Begins with Industrialization and its effects and continues to the French Revolution and its broader impact, the development of democratic institutions in the context of industrial consolidation in the 19th century through the total wars of the 20th century, the Soviet Revolution, trends toward broader democratization and welfare statism, the collapse of communism in the East, and current movements toward European union. Prerequisite: 3 hrs. HI or consent.

HI 334 Civilization of Ancient Rome (3)

This survey course covers the history of ancient Roman civilization from its origins to Late Antiquity. The course is divided into three major sections. The first section, FOUNDATIONS, covers the early development of Italy, the establishment and development of the Roman Republic, and key Roman cultural institutions, especially the Roman state religion. The second section, TRANSFORMATION examines the slow disintegration of the institutions of the Republic, and its eventual collapse under the weight of the political ambition of senators such as Marius, Sulla, Pompey and Julius and Augustus Caesar. The third section, IMPERIUM, covers the history of the empire from Augustus to its collapse in the West in 476 and beyond, with special attention to the development of new religions to challenge the older order, namely Christianity and the other Mystery Cults. Throughout the semester we will be exploring sub-themes, such as the legitimacy and usefulness of drawing parallels between the histories of Rome and the United States, and the ever-changing perception of Rome in the modern popular imagination as evidenced in film. Also part of the course will be an extended simulation of the Roman Senate in the aftermath of the assassination of Julius Caesar, with students representing senators faced with the conflict between the achievement of personal ambition and the good of the state in troubled times. Prerequisite: 3 hours of History or permission of the instructor.

(General Ed Social Science. Global Citizenship Ethics Div.)

HI 336 History of England (3)

Origins and historical development of England in its political, economic and social aspects from the earliest times to the present. Prerequisite: 3 hrs HI or consent.

HI 338 Victorian Britain, c. 1830-WWI (3)

Intensive study of British history and life during the Victorian era, 1837-1901. Emphases will include the impact of industrialization, the continued evolution of parliamentary rule, changing women's and family roles, Victorian culture and the expansion of Empire. Prerequisite: 3 hrs HI or consent.

(General Ed Social Science. Global Citizenship Ethics Div.)

HI 339 History of France (3)

Study of the development of French history and culture from the earliest times to the present. Prerequisite: 3 hrs HI or consent.

HI 340 French Revolution & Napoleon (3)

A study of the decade of revolution, 1789-1799, and of the Napoleonic regime. Constitutional, political, societal, economic, and cultural issues will be considered. Prerequisite: 3 hrs HI or consent.

HI 342 History of Germany (3)

Study of the development of German history and culture from the earliest times to the present. Prerequisite: 3 hrs HI or consent.

HI 343 The European Reformation (3)

A survey of the history and theology of the Magisterial, Radical, and Roman Catholic Reformation movements of the early sixteenth century, with particular emphasis on the religious ideas and practices of leading reformers such as Luther, Zwingli, Calvin, and Ignatius Loyola. Reformation ideas will be examined within the context of the experiences of these principal figures and of the public they addressed and by whom they were interpreted. The reformation will be considered in relation to the cultural, social, economic, and political changes of the early modern period. Prerequisite: 3 hrs HI or consent.

HI 344 The Holocaust: A Seminar (3)

In consultation with the instructor, students will select a topic related to the Holocaust, research it, make a class report, be critiqued by their peers and the instructor, and prepare a research paper. Prerequisite: 3 hrs HI or consent.

HI 354 History of Middle East (3)

Origins, historical development and interaction of the major events, ideas, figures, and patterns shaping the history of the Middle East from the rise of Islam to the present. Prerequisite: 3 hrs HI or consent.

HI 357 History of Traditional China (3)

Origins, historical development and interplay of major forces, events and characteristics of Chinese Civilization from pre-history to c. 1800. Prerequisite: 3 hrs HI or consent.

HI 358 History of Modern China (3)

Origins, historical development and interplay of major forces, events and characteristics of Chinese Civilization from c. 1800 to the present. Prerequisite: 3 hrs HI or consent.

HI 360 History of Mexico (3)

Origins of Mexican Civilization in the blending of the Indian and Spanish races and civilizations and the historical development of that civilization to the present. The interaction of physical, economic, political and social forces in the shaping of that civilization is emphasized. Prerequisite: 3 hrs HI or consent.

HI 361 Colonial Latin America (3)

The course surveys Latin American history from the pre-Columbian era to 1820. Through the exploration of the fundamental events of colonial Latin American history using primary sources, the course identifies and analyzes key political, social, economic, and religious institutions of the colonial experience in Latin America, evaluates the role of state and religion in society, examines intersections of race, class, and gender, and assesses the causes of and wars of independence. Prerequisite: 3 hrs HI or consent.

HI 362 History of Latin America (3)

Latin American history from 1820 to the present. The course will focus on the interaction of social, cultural, economic, political, and international factors in the creation of the reality lived by Latin Americans from all socioeconomic backgrounds from the nineteenth century to the present. Prerequisite: 3 hrs HI or consent.

HI 363 Borderlands and Beyond (3)

The course explores Latino history in the United States within the broader U.S., Latin American, and global economic perspective. Beginning during the Spanish colonial period and including the major formative events in U.S./Mexican/and Latin American history, (Mexican Independence, Texas Independence, Mexican-American War, Mexican Revolution, Spanish-American-Cuban War, etc.), the course asks students to think about the multiple meanings of borders, past and present, as well as the changing role of migration and immigration within that historical context. Prerequisite: 3 hrs HI or consent.

(General Ed Social Science. Global Citizenship Ethics Div.)

HI 364 History/Literature of Latin America (3)

This course focuses on the relationship between history and literature in modern Latin America. Through the study of novels, poetry, film, and other genres the course examines how authors use literature to interpret the meaning of history and society as well as moments in which literature became part of the historical process. Prerequisite: HI 100, HI 101, or HI 102, or consent.

HI 370 Modern Africa, c. 1700-Present (3)

Covers the basic developments in sub-Saharan African history since 1700. Begins with the intensification of slave trading, widening trade networks within Africa and linking Africa to the Atlantic world, and continues with the New Imperialist conquest of Africa and its consequences from the 19th century on. Closes with the rise of nationalist movements, decolonization and formation of independent states in Africa. Prerequisite: 3 hrs HI or consent.

HI 380 Women in World History (3)

Surveys major figures, philosophies, patterns and events shaping women's changing roles and status within human society, origins of civilization to current industrial society. Traditional civilizations covered include Classical Mediterranean World, Confucian Asia, and Islam; significant emphasis will also be placed on understanding the impact of industrialization and modern political revolution both within the west and in the developing world. Prerequisite: 3 hrs HI or consent.

HI 381 History & Psychology of Sex & Gender (3)

Team taught by an historian and a psychologist. Surveys historic and current experience of being male and female within changing western society. Examines past roles and ideas about distinctions between sexes and surveys current psychological research in the area. See Psychology for cross-listing. Prerequisite: 3 hrs Social Science or consent.

HI 383 Film and History (3)

In this course, students will survey and evaluate films about historical subjects, seeking to understand the role film plays in shaping popular attitudes towards history and trying to assess the sort of history that film versions of the past promulgate. The main business of the class will be watching films and then discussing them, primarily through E-mail exchanges and debates, a required component of the course. In addition, students will do two book reports and a research paper. Prerequisite: 3 hrs HI or consent.

HI 395 History Forum (3)

A seminar on the nature of history and its application. Prerequisites: any three 100 level HI courses.

HI 397 Internship in Historical Agencies (3)

A program for junior/senior level undergraduates principally offered in cooperation with the Kansas State Historical Society and the Brown v. Board of Education National Historic Site on a limited basis, in Museum Display, History Education, Archives and Manuscripts. Prerequisites: HI 111, HI 112, 6 hours upper division HI, consent.

HI 398 Directed Readings (1-6)

Directed readings in selected fields of history. Regular conferences. May be taken until six credit hours are earned. Prerequisite: Senior history major or approval of the department chair.

HI 399 Historical Methods & Research (3)

Research and bibliographical techniques and practice in the application of these techniques in selected research. A capstone course required of history majors. Prerequisites: HI 111, HI 112, HI 395 and two of The World History courses.

HI 526 Anabaptism: The Radical Reformation and Beyond (3)

This course focuses on the major events, persons, literature, and practices of Anabaptist-related groups from the 16th-century Reformation to the present. History department faculty and guest speakers will trace the evolution of this religious movement from its multi-faceted European origins to diverse contemporary practices of Mennonites, Amish, Hutterites, and other Anabaptists on five continents. Course components include research projects on religious identity formation, storytelling about Anabaptists' lives and essays on novels and other literature drawn from Anabaptist experience. Students taking the course HI-526 for graduate credit will choose an appropriate topic for a research paper utilizing primary and secondary sources, in consultation with the professor. Prerequisites: 3 hours of History or permission of instructor.

HI 534 Civilization of Ancient Rome (3)

This survey course covers the history of ancient Roman civilization from its origins to Late Antiquity. The course is divided into three major sections. The first section, FOUNDATIONS, covers the early development of Italy, the establishment and development of the Roman Republic, and key Roman cultural institutions, especially the Roman state religion. The second section, TRANSFORMATION examines the slow disintegration of the institutions of the Republic, and its eventual collapse under the weight of the political ambition of senators such as Marius, Sulla, Pompey and Julius and Augustus Caesar. The third section, IMPERIUM, covers the history of the empire from Augustus to its collapse in the West in 476 and beyond, with special attention to the development of new religions to challenge the older order, namely Christianity and the other Mystery Cults. Throughout the semester we will be exploring sub-themes, such as the legitimacy and usefulness of drawing parallels between the histories of Rome and the United States, and the ever-changing perception of Rome in the modern popular imagination as evidenced in film. Also part of the course will be an extended simulation of the Roman Senate in the aftermath of the assassination of Julius Caesar, with students representing senators faced with the conflict between the achievement of personal ambition and the good of the state in troubled times. Prerequisite: 3 hours of History or permission of the instructor.

HI 600 Special Topics in History (1-3)

Topics will vary from semester to semester and will be announced in advance. Prerequisite: 3 hrs History or consent.

HI 604 American Revolutionary Period (1763-1789) (3)

Examination of the problems of Great Britain and the colonies following the French and Indian War. Causes of the Revolution as well as the events resulting from it will be studied in detail. The critical period, the writing of the Constitution, and the laying of the foundations of our government by the Federalists are analyzed. Prerequisites: 3 hours History or consent.

HI 607 American Civil War: 1848-1877 (3)

A survey of the sectional crisis beginning with the conclusion of the Mexican War in 1848 to resolution of the crisis by 1877. Themes include: the nature of Northern and Southern societies; the political crisis of the 1850s; the relative military strengths of each side; the major battles and campaigns; the Northern and Southern home fronts, the role African-Americans played in their own liberation; the process by which reconstruction first emerged and then collapsed. Prerequisites: 3 hours History or consent.

HI 611 Cold-War America, 1945-1990 (3)

Examines the development of the US as it responds to the pressures of the Cold War, repercussions of the corporate economy, dynamics of changing race relations and the emergence of a New World Order in the 1980s. Prerequisites: 3 hours History or consent.

HI 612 Wars' Impact on America (3)

A twentieth-century U.S. history course, emphasizing social, economic, and cultural implications of American involvement in wars from the First World War through the Gulf War of 1991. The course addresses, from comparative perspective, mobilization, and conscription issues, societal implications on the American homefront, and civil liberties issues in wartime from the 1910s to the 1990s. Prerequisites: 3 hours History or consent.

HI 615 Women in U.S. History (3)

American women's history from the nineteenth century to the present with an emphasis on their role in society, and how women's experiences have been affected by social, economic, and political changes. Prerequisites: 3 hours History or consent.

HI 617 Topeka and Urban American History (3)

Explores the development of Topeka within the context of urban growth in America. The first half focuses on groups, individuals, institutions, and ideas that define the nation's urban experience, while the second half weaves Topeka into the pattern. Prerequisites: 3 hours History or consent.

HI 620 The American West (3)

Focuses on development of the west as a region. Addresses innovative institutions and practices, interaction of culture, and the diversity and the changing environment. Prerequisites: 3 hours History or consent.

HI 622 Kansas History (3)

Social, economic and political history from Spanish explorations to the present, including the role of the Native-American, non-English ethnic groups, and women, and the part played by Kansas and Kansans on the national scene. Prerequisite: 3 hours History or consent.

HI 625 American Religious History (3)

This course serves as an introduction to religion in American history by focusing upon the impact of religion on American culture and of American culture on religion. It examines the major figures, themes, and theological positions in American religious history from approximately 1600 to the modern era. Prerequisite: 3 hrs History or consent.

HI 628 African American History (3)

The black experience in America from African origins to the present. Themes to be emphasized include: the process of enslavement, the emergence of African-American culture, the nature of slavery, the struggle for freedom, the migration to the North, the Civil Rights movement, and contemporary issues. Prerequisite: 3 hours History or consent.

HI 636 History of Britain (3)

Origins and historical development of England in political, economic and social aspects from the earliest times to the present. Prerequisite: 3 hours History or consent.

HI 638 Victorian Britain: c. 1830-WWI (3)

Intensive study of British history and life during the Victorian era, the dates 1837-1901. Emphases will include the impact of industrialization, continued evolution of parliamentary rule, changing women's and family roles, Victorian culture and the expansion of Empire. Prerequisite: 3 hours History or consent.

HI 643 The European Reformation (3)

A survey of the history and theology of the Magisterial, Radical, and Roman Catholic reformation movements of the early sixteenth century, with particular emphasis on the religious ideas and practices of leading reformers such as Luther, Zwingli, Calvin, and Ignatius Loyola. Reformation ideas will be examined within the context of the experience of these principal figures and that of the public they addressed and by whom they were interpreted, and in relation to the cultural, social, economic, and political changes of the early modern period. Prerequisites: 3 hours History or consent.

HI 644 The Holocaust: A Seminar (3)

In consultation with the instructor, students will select a topic related to the Holocaust, research it, make a class report, be critiqued by their peers and the instructor, and prepare a research paper. Prerequisite: 3 hours History or consent.

HI 660 History of Mexico (3)

Origins of Mexican Civilization in the blending of the Indian and Spanish races and civilizations and the historical development of that civilization to now. The interaction of physical, economic, political and social forces in the shaping of that civilization is emphasized. Prerequisites: 3 hours History or consent.

HI 663 Borderlands and Beyond (3)

The course explores Latino history in the United States within the broader U.S., Latin American and global economic perspective. Beginning during the Spanish colonial period and including the major formative events in U.S./Mexican/and Latin American history, (Mexican Independence, Texas Independence, Mexican-American War, Mexican Revolution, Spanish-American-Cuban War, Cold War, etc.), the course asks students to think about the multiple meanings of borders, past and present, as well as the changing role of migration and immigration within that historic context. Prerequisites: 3 hours History or consent.

HI 670 Modern Africa: c. 1700-Present (3)

Covers the basic developments in subsaharan African history since 1700. Begins with the intensification of slave trading, widening trade networks within Africa and linking Africa to the Atlantic world and continues with the New Imperialist conquest of Africa and its consequences from the nineteenth century on. Closes with the rise of nationalist movements, decolonization and formation of independent states in Africa. Prerequisites: 3 hours History or consent.

HI 680 Women in World History (3)

Surveys major figures, philosophies, patterns and events shaping women's changing roles and status within human society, origins of civilization to current industrial society. Traditional civilizations covered include Classical Mediterranean World, Confucian Asia, and Islam; significant emphasis will also be placed on understanding the impact of industrialization and modern political revolution both within the west and in the developing world. Prerequisites: 3 hours History or consent.

HI 698 Directed Readings (1-6)

Directed readings in selected fields of history. Regular conferences. Prerequisites: Senior History major or approval of the department head. May be taken until 6 credit hours are earned.

Honors (HN)

HN 101 Honors First Year Experience (3)

HN101 is a three credit hour course, designed for first-year honors students (incoming honors freshmen) providing students with a common first-semester experience. The course will substitute for WU101 thereby fulfilling this university-wide requirement. Like WU 101, course content will focus upon information literacy, technology, and the transition into the Washburn University Community of Learning in addition to exposure to co-curricular activities (a.k.a., passport activities). Common themes such as the exploration of writing, study skills, research, wellness, technology, plagiarism, and others will be covered to introduce students to a series of best practices for success. HN 101 differs from WU 101 in general in that additional topics will be explored and some shared topics with WU 101 (e.g., writing) be emphasized more. For example, students will learn more about conducting research through instruction and by conducting a group research project, complete a service learning project, and actively participate in seminar-style discussions covering assigned readings. Prerequisite: Accepted into Honors program.

(Information Literacy and Tech.)

HN 201 Seminar Humanities Fine Arts (3)

An integrated humanities topics course that takes some special problem, theme, or subject matter and explores it from a humanistic perspective. Topics vary from semester to semester. Satisfies three hours of general education credit in the humanities and fine arts. May be taken more than once with different topics.

(General Ed Humanities. Critical and Creative Thinking.)

HN 202 Seminar in the Social Sciences (3)

An integrated social sciences topics course that takes some special problem, theme, or subject matter and explores it from the perspective of the social sciences. Topics vary from semester to semester. Satisfies three hours of general education credit in the social sciences. May be taken more than once with different topics.

(General Ed Social Science. Critical and Creative Thinking.)

HN 203 Seminar Physical Science & Mathematics (3)

A special topics course that takes some special problem or subject matter and explores that subject matter or problem from the perspective of the natural sciences or mathematics. Topics vary from semester to semester. Satisfies three hours of general education credit in the natural sciences and mathematics. May be taken more than once with different topics.

(General Ed Natural Science. Critical and Creative Thinking.)

HN 301 Seminar Humanities Fine Arts (3)

An integrated humanities topics course that takes some special problem, theme, or subject matter and explores it from a humanistic or fine arts perspective. Topics vary from semester to semester. May be taken more than once with different topics. Prerequisites: Sophomore Standing.

(General Ed Humanities. Critical and Creative Thinking.)

HN 302 Seminar in the Social Sciences (3)

An integrated social sciences topics course that takes some special problem, theme, or subject matter and explores it from the perspective of the social sciences. Topics vary from semester to semester. May be taken more than once with different topics. Prerequisite: Sophomore standing.

(General Ed Social Science. Critical and Creative Thinking.)

HN 303 Seminar Natural Sciences & Mathematics (3)

A special topics course that takes some special problem or subject matter and explores from the perspective of the natural sciences or mathematics. Topics vary from semester to semester. May be taken more than once with different topics. Prerequisites: Sophomore Standing. (General Ed Natural Science. Critical and Creative Thinking.)

HN 305 Colloquium Liberal Arts Professional Disciplines (3)

A special topics course that involves the study of the relationship of the professional disciplines – for example, law, education, business, public planning and administration, social work or other applied studies, the health professions – to the liberal arts, or one of the liberal arts – for example, history, poetry, rhetoric, or philosophy.

HN 392 Directed Readings (1-3)

A special topics course designed to allow students and faculty the opportunity to explore and develop areas of study as a foundation for thesis work.

HN 399 Honors Thesis (1-6)

Independent research in a specified area approve by the Dean of University Honors.

Human Services (HS)

HS 100 Family and Human Services (3)

This course provides an introduction to the philosophical framework, major theoretical models, and interdisciplinary nature of family and human services. Students will examine various approaches to family and human services within historical, societal, and cultural contexts. Students will explore occupations, professional organizations, and community resources relevant to family and human services. Students will complete a 30 hour service learning project in a relevant agency in their own community. Prerequisite: None

HS 131 Human Development (3)

This course provides an introduction to physical, sexual, cognitive, emotional, social and spiritual aspects of human development throughout the lifespan. It emphasizes developmental processes beginning with conception and continuing throughout childhood, adolescence, adulthood, later life and death. The course focuses on developmental processes within the domains of individual wellness, human sexuality, family issues, and cultural contexts. This course takes an interdisciplinary approach toward human development that is based on science and applied toward the goal of supporting individuals and families in solving important human problems. Prerequisite: None.

HS 201 Victimology (3)

This course provides an introduction to the history, development, theories, and major issues in the study of persons who are victims/survivors of crime. Using an ecological perspective of victimization, specific areas will be discussed, including domestic violence, sexual assault, child abuse, and homicide. Current research data will be discussed to enhance the understanding of victim trauma and recovery. Prerequisite: None,

HS 202 Victim/Survivor Services (3)

This course is an overview of the variety of human services provided to persons who are victims/survivors of crime. Settings to be studied are various criminal justice, medical, legal, crisis intervention, and advocacy agencies, and organizations that provide victim assistance. Emphasis is on current developments in the field. Prerequisite: None.

HS 220 Community Methods with Children & Youth (3)

This course is designed to introduce students interested in working with youth to the developmental and socialization influences that affect children. In addition, when one is concerned about children's development, one must also be concerned with children, families, and communities. This course will provide students the opportunity to become sensitized to the many issues that confront today's youth and critically look at what is being done. Many current topics will be covered in a survey format and students will investigate one topic in-depth. Prerequisite: None,

HS 221 Community Methods with Children & Youth (3)

This course will address environmental intervention with children and their families. Social networking and ecologically oriented programs will be the focus. Prerequisite: HS 220 or consent.

HS 222 Juvenile Justice (3)

The American system of juvenile justice, including the roles and relationships of law enforcement, courts, probation and parole, diversionary programs, service agencies, and correctional institutions. Prerequisite: None.

HS 231 Methods of Long Term Mental Health Care (3)

This course will build on the theoretical issues of basic health care, with emphasis on acquiring the skills to care for the health and safety concerns of people in long-term treatment programs. Prerequisite: None.

HS 232 Introduction to Community Mental Health Services (3)

This course is designed to familiarize students with the history and development of community mental health; federal, state and local policies impacting the delivery of community mental health services; and methods utilized in community mental health service delivery such as short-term counseling, crisis intervention, case management, prevention, education, and assessment of need for services. Prerequisite: None.

HS 240 Introduction to Intellectual Disabilities (3)

This is a survey course designed to introduce the student to a philosophy and set of practices for providing services to people with intellectual disabilities. Course topics include rights of individuals, legal issues, assessment and planning, communication, prevention, and supportive services for promoting independence and well-being. The course focuses on practical skill development for working with people with intellectual disabilities. Prerequisite: None.

HS 243 Fundamentals of American Sign Language (3)

This course is designed to provide students with a basic framework of knowledge regarding the nature of hearing loss and its extremely varied influence on the lives of people who are deaf, hard of hearing, late-deafened, and deaf with a dual diagnosis. Important issues within the field of deafness will be addressed, namely: Deaf culture, education of deaf people, technological advances, and political influences. Emphasis will be placed on learning the fundamentals of American Sign Language (ASL) while providing the student with a working vocabulary of approximately 500 signs. The student can expect sign demonstration and practice as well as lecture on various salient topics in deafness.

HS 250 Skills for Helping Professionals (3)

This course is designed to address foundational skills and techniques for providing family and human services. Students will engage in assignments to aid in their preparation for human services practice at the internship level. This course will explore ethics and professional conduct, goal setting, behavior-change strategies, communication skills, and relationships built on respect, compassion, and responsibility. Students will consider how values and biases influence helping. Special consideration will be given to understanding and working with diverse populations. Prerequisite: None,

HS 260 Directed Study (1-3)

Family and Human Services majors may pursue an independent study project if approved by the instructor in consultation with the Department Chair. A contract must be signed by all parties that specifies learning outcomes, assignments, deadlines, and assessment strategies. Independent Study courses must meet equivalencies to Federal definition of a credit hour. Prerequisite: Consent

HS 273 Gerontology Skills & Methods (3)

This course will allow students to build skills for delivering human services to elderly individuals and groups. Coursework will emphasize building relationships, assessment, and approaches to treatment. Prerequisite: None.

HS 290 Special Topics/Human Services (1-3)

Topics will vary from semester to semester and will be announced in advance.

HS 300 Prevention and Social Change (3)

This course will examine the foundational roles of prevention and social change in Family and Human Services. Content will focus on selection and implementation of social change and prevention strategies, with special attention to the importance of social justice in promoting a healthy society. Prerequisite: None.

HS 301 Working with Trauma (3)

This course provides information on the concept of psychological trauma as well as an overview of the common responses to trauma in individuals and families, PTSD diagnostic criteria, family stress theories, resource management, and resilience. Current treatment practices, both evidence-based and alternative, are reviewed. Principles for working with trauma-exposed populations in family and human services are emphasized. This course is required for the Trauma and Recovery Certificate in Family and Human Services. Prerequisite: None.

HS 302 Social Change & Advocacy/Human Services (3)

This course is designed to familiarize students with community organizing, mobilizing, and development. The content of the course will focus on an understanding of social action, change and advocacy in human service practice. Community organizing refers to a particular form of community participation in which "grassroots" people learn techniques to share in power. This implies that the model will focus on recruiting grassroots membership and target systems for change. The methods may include collaborative problem solving, strategic planning and confrontation. Targets for change may be individuals, systems, and families. Prerequisite: None.

HS 304 Case Management (3)

This course is designed to enhance students' ability to provide case management services. This course will focus on serving children with severe emotional disturbance and adults with mental illness. In addition, students will investigate issues and responsibilities of case managers, community resources, the family support perspective, client advocacy, the strengths approach when working with people, and the fundamental philosophy and applications of wraparound community services. This course will be helpful for those students with the desire to work as case managers, social workers who would like to expand their knowledge of case management in community settings, bachelor level psychology students wanting to work in community mental health, and administrators/supervisors who have the desire to implement case management services within their agencies. Prerequisite: None.

HS 308 Working with Parents and Youth (3)

This course examines effective parenting strategies and parent education programs, with attention to contemporary sociocultural issues impacting families. Students will study evidence-based prevention and intervention practices for working with parents and youth that promote healthy child development, effective family functioning and resilience. Prerequisite: None.

HS 310 Human Sexuality (3)

This course will provide students the opportunity to develop basic background knowledge of human sexual anatomy, response, behavior, developmental aspects, problems, and laws. Students will increase vocabulary in the area of human development to describe and identify normal and problematic areas of human sexuality. Prerequisite: None.

HS 312 Substance Abuse and Co-occurring Disorders (3)

This course teaches students about effective addictions treatment for persons with co-occurring disorders. The course will provide students with an understanding of terms, services delivery systems, assessment, and strategies for working with clients with co-occurring disorders. The course will cover methods for providing individualized treatment based on a consumer's biological, psychological, social and spiritual needs. The content of this course is based on TAP21 competencies. This is a required course for addictions counseling licensure with the Kansas BSRB. Prerequisite: None.

HS 316 Addictions Treatment (3)

This course describes the most generally accepted and scientifically supported models of treatment, recovery, relapse prevention, and continuing care for addiction and other substance-related problems. Students will be exposed to the principles and philosophy of prevention, treatment and recovery. The course will focus on the social, political, economic, cultural, and family context within which addiction and substance abuse exist, including risk and resiliency factors that characterize individuals and groups and their living environments. Emphasis will be given to the behavioral, psychological, physical health and social effects of psychoactive substances on the user and significant others and the importance of research and outcome data and their application in clinical practice. The content of this course is based in part on TAP 21 competencies. This is a required course for addictions counseling licensure with the Kansas BSRB. Enrollment in HS 516 requires department consent.

HS 321 Youth & Violence (3)

This course is designed to provide an overview of violence and youth, specifically the problems associated with it; including, but not limited to, such issues as definition, reporting, investigations, causes, treatment, the importance of family preservation and re-integration, institutional abuse, institutional neglect, parent training, parent support, prevention, the roles of foster care, state agencies, the court system, the schools, etc. The role of the human service worker in preventing and dealing with child abuse and youth violence will be an area of special focus. Child abuse will be viewed as a part of a continuum of personal/family violence. Prerequisite: None.

HS 323 Service Coordination (3)

This course focuses on the coordination of services for human services clients. Students will learn about intake, screening, assessment, diagnosis, client placement, treatment planning, discharge/transfer plans, report writing, referral and other aspects of service coordination. The course stresses a multidisciplinary approach to service coordination and examines the roles of professionals, agencies, families, community groups, and other support systems in the treatment process across the continuum of care. Students will learn effective, ethical ways to work with clients, with a focus on recovery-oriented systems of care. The content of this class is based in part on TAP21 competencies. This is a required course for addictions counseling licensure with Kansas BSRB.

HS 325 Group Work (Group Counseling) (3)

This course is designed to provide both knowledge and skills in the organization and facilitation of psycho-educational and other group experiences used in the helping process, with special focus on addiction and recovery. Students will learn a variety of techniques and strategies designed to facilitate and enhance group learning and the personal growth of participants—particularly psycho-social development. The content of this course is based in part on TAP 21 competencies. This is a required course for addictions counseling licensure with the Kansas BSRB.

HS 330 Theories of Intervention (3)

This course focuses on the theories that guide the practice and delivery of Family and Human Services. The course gives the student an understanding of how different theoretical approaches have influenced the development of human service interventions, and includes the study of a variety of helping approaches such as the family systems approach, the feminist approach, and the cognitive-behavioral approach. Students will evaluate the usefulness of the different theoretical approaches in addressing important human problems. In addition, students will be encouraged to explore their own views about human nature and to understand how these views might influence their delivery of human service interventions. Prerequisite: None.

HS 341 Applied Behavioral Interventions (3)

This course is designed to familiarize students with the history, theory, and practice of applied behavior analysis. Emphasis will be on the "practice" side, with students learning how to define and observe behaviors, design effective and socially valid interventions to help consumers reach valued goals, and analyze the impact of interventions on important behaviors. Students will learn about best practices in behavior analysis with a variety of consumer populations and will gain experience in reading and evaluating reports of behavior-analytic research. Prerequisite: None.

HS 355 Peacemaking (3)

The course will cover the need for peace education in our society. Peace education is pertinent for students majoring in human services with an interest in working with violence and poverty prevention, social justice, the environment, youth, and sustainable communities. Other students will find value in the course through the experiential component of designing a peace education presentation that can be used in their community. Topics include personal peacemaking, nonviolence, conflict resolution, compassionate intentional living, civil rights, equity, education and the environment. Prerequisite: None.

HS 360 Directed Study (1-3)

Family and Human Services majors may pursue an independent study project if approved by the instructor in consultation with the Department Chair. A contract must be signed by all parties that specifies learning outcomes, assignment deadlines, and assessment. Independent Study courses must meet equivalencies to Federal definition of a credit hour. Prerequisite: Department consent

HS 362 Human Trafficking and Modern Day Slavery (3)

This course is an advanced undergraduate course that focuses on contemporary human trafficking and slavery. Types of trafficking and slavery to be covered include sex trafficking, bonded labor, forced labor, child soldiers, chattel slavery, and domestic servant slavery. The contributing roles of the state, organized crime, the media, culture, and corruption will be examined. It will review the debates about defining trafficking and the connection between sex trafficking and prostitution. Course materials may include testimonies and autobiographies by survivors, research reports, theoretical essays, policy statements, expert testimonies, podcasts and videos. Prerequisite: None.

HS 370 Mass Victimization/Mental Health (3)

This course will provide an overview of interventions used with victims following mass violence and disasters. Additionally, compassion fatigue effects and methods used to assist emergency responders who become victims of disaster through their role in response and recovery will be thoroughly discussed. Attention will focus on mental health effects dealing with both immediate and long-term recovery issues for immediate victims and those responding to the incident. Enrollment in HS 670 requires department consent.

HS 371 Mental Health and Aging (3)

This course provides an overview of biological, psychological, and social factors related to successful aging, with an emphasis on the development and maintenance of mental health across the lifespan. The course considers ways that HS professionals can support mental health throughout the aging process. Students will also learn about mental health problems in relation to the aging process. Prerequisite: None.

HS 372 Death & Dying (3)

This course will cover biological, psychological, social, and cultural issues surrounding death and the dying process. Topics will include stages of dying, approaches to working with people who are dying and their families, the bereavement process, cross-cultural practices related to death and dying, services available to people who are dying and to their caregivers, and legal and ethical issues surrounding end-of-life decision making.

HS 373 Disaster Response and Recovery (3)

This course provides an overview of the hazard cycle and basic concepts of disaster preparedness, response and recovery. Additionally, this course will provide an overview of the helping professional's role during times of disaster including discussion of the specific emergency support functions assigned to groups and agencies as designated in the National Response Framework. Emphasis will also be paid to concepts used when working with direct and indirect victims of disaster.

HS 374 Eastern Therapies in Intervention & Treatment (3)

This course highlights Eastern therapies in intervention and treatment across the range of human service populations, including mental health, alcohol and drug abuse, crisis and post-trauma, and crime victimization. The focus will be on an understanding of Western adaptations, transcultural, and holistic approaches to suffering and healing. Special emphasis will be on the Western adaptations of Morita and Naikan therapies. The course is highly interactive and experiential. Prerequisite: None.

HS 375 Hate and Bias Crimes (3)

This course provides an overview of hate and bias crimes in the United States. Focus will be on causative factors, human service and criminal justice responses, and impact on victims/survivors and communities. Hate violence based upon race and ethnicity will be a primary focus, but discussion will also include hate violence targeting persons because of gender, sexual orientation, age, religion, and disabilities. Prerequisite: None.

HS 377 Personal & Community Prevention (3)

This course explores a principle-based model of professional health and helping. It focuses on a new and innovative approach to prevention and human services that changes lives, communities, and organizations from the inside-out. Most recently known as The 3 Principles (also known as Health Realization), this approach emphasizes people's innate health and resilience to foster the capacity for personal well-being and the ability to function productively and successfully among colleagues and constituents. This course is directed toward strengthening the student's approach to life and work, which is necessary for developing the capacity to serve others and respond to the consistent demands of the helping profession. Prerequisite: None.

HS 378 Issues in Aging (3)

The course provides an interdisciplinary examination of the human aging process by surveying biological, psychological, sociological, and cultural theories, and influences, on aging. While this course does not focus solely on old age, the course will examine social policies and human services for older people that are informed by our knowledge of the aging process. Prerequisite: None.

HS 381 Internship I (3)

This course is the first internship required in the Associate and, Baccalaureate programs, and may be used to meet certificate requirements. The internship consists of a minimum of 150 clock-hours of field experience in an agency in the community under the supervision of agency staff and university faculty. In addition, a weekly seminar is required to integrate learning in the field with classroom instruction. Students work on specific competencies related to the delivery of human services. Additionally, addiction counseling students work on TAP 21 competencies. This is a required course for addiction counseling licensing with the Kansas BSRB. Prerequisite: Department consent.

HS 390 Special Topics (1-6)

Topics will vary from semester to semester and will be announced in advance.

HS 395 International Service Experience (0-3)

This course will offer the students the opportunity to experience the culture of countries other than the United States while engaged in meaningful service in both urban and rural settings. Through a partnership with a non-governmental agency service assignments will be arranged to meet the needs of various communities. The focus of this assistance is on community and economic development, sustainable agriculture, health, education, training in non-violent resolution of conflicts, and women's empowerment. The purpose of the experience is to develop friendships and a sense of partnership with the members of the community organizations and people the students interact with during their time in country. In addition to completing the service project students will learn about the history, political systems, and the culture of the country they visit. Prerequisite: Instructor consent.

HS 410 Pharmacology & SUDs (3)

This course covers fundamental concepts of pharmacology, including physiological, behavioral, psychological, social and health effects of psychoactive substances. The course also covers infectious diseases associated with substance use and methods of disease prevention. Students will learn about drug screening, drug testing and HIV/AIDS testing and counseling, and associated legal and ethical issues. The content of this course is based on TAP21 competencies. This is a required course for addictions counseling licensure with the Kansas Behavioral Sciences Regulatory Board. Prerequisite: None.

HS 411 Family Issues (3)

This course will explore the role that family interaction plays in the various areas of Family and Human Services. Different theories of family functioning and intervention will be reviewed, as well as major risk and resiliency factors. Specific attention will be paid to family issues using a strengths-based approach to domestic violence, youth issues, aging family members, illness and disability, and addictions. For students preparing to work as addiction and recovery counselors, knowledge of ways to teach or facilitate discussions of how substance use and abuse affects families and concerned others will be emphasized. The content of this course is based in part on TAP 21 competencies. This is a required course for addictions counseling licensing with the Kansas BSRB. Enrollment in HS 411 requires department consent.

HS 414 Individual Counseling Methods (3)

This course will introduce students to a variety of evidence-based counseling theories and approaches for working with individual clients and family/significant others. Students will study common topics that arise in individual counseling as well as cultural and ethical issues associated with effective counseling practice. In addition, the course will examine methods for forming effective helping relationships along with strategies for helping clients establish and work toward realistic, meaningful goals. Students will have the opportunity to demonstrate an individual counseling approach covered in this course. The content of this course is based in part on TAP 21 competencies. This is a required course for addiction counseling licensing with the Kansas BSRB.

HS 421 Women and Addiction (3)

Women with substance use disorders have serious and unique health concerns. Using a bio-psycho-social-spiritual framework, this course will examine how treatment services are changing to help women successfully navigate the road to recovery. Prerequisite: None.

HS 429 Adolescence & Substance Abuse (3)

This course is designed to cover the dynamics of substance abuse for children and youth, and the state-of-the-art of prevention and intervention. Special topics of the course will include growth and development, family process, assessment, intervention, treatment, co-dependency, education, cultural factors, at-risk populations, prevention, and resources. Prerequisite: None.

HS 446 Legal, Ethical, & Professional Issues (3)

This course will address legal, ethical, and professional issues which impact the delivery of human services, including codes of ethics, confidentiality, duty to warn, and similar issues. The content of this course is based in part on TAP 21 competencies. This is a required course for addictions counseling licensing with the Kansas BSRB. Prerequisite: Senior standing.

HS 450 Multicultural Issues (3)

This course provides an overview of the major issues in providing family and human services to the increasingly pluralistic population of the United States. Themes to be discussed are: cross-cultural theories of intervention, communication styles, definitions of suffering and recovery, and working with diverse individuals and groups. The range of human service delivery systems, including mental health, alcohol and substance abuse, youth services, gerontology, and victim/survivor services, will be addressed from a multicultural perspective. Emphasis will be on exploring provider attitudes and competencies as well as developing practical applications and solutions. For students preparing to work as addiction and recovery counselors, special emphasis will be given to recognizing the social, political, economic, and cultural context within which addiction and substance abuse exist, including risk and resiliency factors that characterize individuals and groups and their living environments. Enrollment in HS 450 requires department consent.

HS 480 Internship II (3)

This course is the second internship required in the Baccalaureate program and may also be used to meet certificate requirements. The internship consists of a minimum of 150 clock-hours of field experience in an agency in the community under the supervision of agency staff and university faculty. In addition, a weekly seminar is required to integrate learning in the field with classroom instruction. Students will work on specific competencies related to the delivery of human services. Additionally, addiction counseling students will work on TAP 21 competencies. This internship requires summative reflection, serving as a culminating experience for Bachelor's degree students. This is a required course for addiction counseling licensing with the Kansas BSRB. Prerequisite: Department consent.

HS 481 Internship in Family & Human Services (3)

HS 481 is a supplemental internship course for baccalaureate and certificate students within the Human Services Department who want to obtain additional field experience. The internship consists of a minimum of 150 clock-hours of experience in an agency in the community specific to the student's area of concentration, under the supervision of agency staff and university faculty, as well as a weekly seminar to integrate learning in the field with classroom instruction. Practice will focus on advanced-level skills specific to the student's area of emphasis. Department consent is required for enrollment in this course.

HS 495 Research and Evaluation (3)

This course introduces students to applied research and evaluation in family and human services. The purposes and techniques of applied research and evaluation are explored, including qualitative and quantitative approaches. Students gain experience with the critical reading of research articles relating to the evaluation of human service programs. Projects give students direct experience with program evaluation and applied research. The content of this course is based in part on TAP 21 competencies. This is a required course for addictions counseling licensing with the Kansas BSRB. This is a summative course that requires students to synthesize knowledge learned across the curriculum. Prerequisite: Junior/Senior Standing.

HS 498 Senior Capstone Seminar (3)

This capstone course is meant to provide students with the opportunity to assimilate and synthesize the knowledge, skills, and attitudes they have acquired through their coursework and field experiences in the major. Through the development of a portfolio, students will demonstrate the acquisition of the major learning objectives necessary to become a skilled human service professional. This course will address additional issues related to professional development and educational advancement. Prerequisite: Majors only.

HS 512 Mental Health & Addictions (3)

This course teaches students about effective addictions treatment for persons with co-occurring disorders. The course will provide students with an understanding of terms, service delivery systems, assessment, and strategies for working with clients with co-occurring disorders. The course will cover methods for providing individualized treatment based on a consumer's biological, psychological, social and spiritual needs. The content of this course is based in part on TAP 21 competencies. This is a required course for addictions counseling licensure with the Kansas BSRB. Enrollment in HS 512 requires department consent.

HS 514 Individual Counseling Methods (3)

This course will introduce students to a variety of evidence-based counseling theories and approaches for working with individual clients and family/significant others. Students will study common topics that arise in individual counseling as well as cultural and ethical issues associated with effective counseling practice. In addition, the course will examine methods for forming effective helping relationships along with strategies for helping clients establish and work toward realistic, meaningful goals. Students will have the opportunity to demonstrate an individual counseling approach covered in this course. The content of this course is based in part on TAP 21 competencies. This is a required course for addiction counseling licensing with the Kansas BSRB. Prerequisite: Department consent.

HS 516 Addictions Treatment (3)

This course describes the most generally accepted and scientifically supported models of treatment, recovery, relapse prevention, and continuing care for addiction and other substance-related problems. Students will be exposed to the principles and philosophy of prevention, treatment and recovery. The course will focus on the social, political, economic, cultural, and family context within which addiction and substance abuse exist, including risk and resiliency factors that characterize individuals and groups and their living environments. Emphasis will be given to the behavioral, psychological, physical health and social effects of psychoactive substances on the user and significant others and the importance of research and outcome data and their application in clinical practice. The course will cover psychoactive substance toxicity, intoxication, and withdrawal symptoms; aggression or danger to others; potential for self-inflicted harm or suicide; and coexisting mental health problems. The content of this class is based on TAP 21 competencies. This is a required course for addictions counseling licensure with the Kansas BSRB. Prerequisite: Department consent.

HS 560 Directed Studies (1-3)

In consultation with instructor, the student selects for intensive study a specific area related to family and human services for intensive study. A contract must be signed by all parties that specifies learning outcomes, assignments, deadlines, and assessment strategies. Directed Studies must meet equivalencies to Federal definition of a credit hour. Prerequisites: Graduate Standing and Approval of Course Instructor.

HS 580 Internship: Addiction Counseling (3)

This internship is an internship prerequisite course for graduate level majors within the Family and Human Services Department. The internship consists of 200 clock-hours of experience at an addictions treatment agency under the supervision of agency staff and university faculty, as well as a weekly seminar to integrate learning in the field with classroom instruction. Practice will focus on advanced-level skills specific to addiction counseling. The content of this course is based in part on TAP 21 competencies. This is a required course for addiction counseling licensure with the Kansas BSRB. Prerequisite: Department consent.

HS 581 Graduate Internship (3)

HS 581 is reserved for those graduate level students who need an internship to complete a certificate or emphasis area. The internship consists of a minimum of 150 clock-hours of experience in an agency or program in the community specific to the student's area of concentration, under the supervision of agency staff and university faculty, as well as a weekly seminar to integrate learning in the field with classroom instruction. Prerequisite: Department consent.

HS 585 Special Topics (1-6)

Topics will vary from semester to semester and will be announced in advance. May be taken more than one semester for variable credit. Prerequisite: Department consent.

HS 595 Research and Evaluation (3)

This course introduces students to applied research and evaluation in human services. The purposes and techniques of applied research and evaluation are explored, including qualitative and quantitative approaches. Students gain experience with the critical reading of research articles relating to the evaluation of human service programs. Projects give students direct experience with program evaluation and applied research. The content of this course is based in part on TAP 21 competencies. This is a required course for addictions counseling licensing with the Kansas BSRB. This is a summative course that requires students to synthesize knowledge learned across the curriculum. Prerequisite: Department consent.

HS 600 Integrative Family and Human Services (3)

This course uses an integrative lens to survey the profession and practice of family and human services, with an emphasis on addiction counseling. An advanced ecological approach will be used to examine various dimensions of professional practice, including historical and international contexts, family and community involvement, culture-informed practices, integrated treatment, and professional self-care. The content of this course is based on TAP-21 Competencies. Admission to Graduate Program or Department consent.

HS 601 Working with Trauma (3)

This course provides information on the concept of psychological trauma as well as an overview of the common responses to trauma in individuals and families, PTSD diagnostic criteria, and resilience. Current treatment practices, both evidence-based and alternative, are reviewed. Principles for working with trauma-exposed populations in Human Services/ Addiction Counseling are emphasized.

HS 604 Advanced Methods Individual Counseling (3)

This course provides the study of counseling theories and practical skills necessary for effective face-to-face and individual counseling. Students will learn a variety of evidenced-based and culturally sensitive techniques designed to facilitate the therapeutic relationship as well as the educational and psycho-social development of clients. Competence in counseling is built on an understanding of, appreciation of, and ability to appropriately use the contributions of various addiction counseling theoretical models as they apply to modalities of care for individuals, groups, families, couples, and significant others. The content of this course is based in part on TAP 21 competencies. This is a required course for addiction counseling licensure at the clinical level with the Kansas BSRB. Prerequisite: Admission to Graduate Program or Department consent.

HS 605 Advanced Methods Group Counseling (3)

This course is designed to provide knowledge and practical skills in management of psycho-educational and therapeutic groups. Students will learn a variety of techniques and strategies designed to facilitate educational and psycho-social development of groups of clients and significant others. This course will include information on criteria for cognitive-behavioral strategies and other evidence-based, culturally sensitive approaches to group counseling. Prerequisite: Admission to Graduate Program or Consent of Instructor.

HS 610 Professional Ethics/Practice (3)

This course covers major professional readiness issues, including code of ethics, privacy rights and confidentiality, legal responsibilities and liabilities of clinical supervision, and development of a professional attitude and identity. Cultural competence, professional organizations, and licensure and certification are also covered topics. The content of this course is based in part on TAP 21 competencies. This is a required course for addiction counseling licensure at the clinical level with the Kansas BSRB. Prerequisites: Admission to Graduate Program or Department consent.

HS 611 Family Issues (3)

This course will explore the role that family interaction plays in the various areas of Family and Human Services. Different theories of family functioning and intervention will be reviewed, as well as major risk and resiliency factors. Specific attention will be paid to family issues using a strengths-based approach to domestic violence, youth issues, aging family members, illness and disability, and addictions. For students preparing to work as addiction and recovery counselors, knowledge of ways to teach or facilitate discussions of how substance use and abuse affects families and concerned others will be emphasized. The content of this course is based in part on TAP 21 competencies. Prerequisite: Department consent.

HS 615 Advanced Pharmacology and Substance Use Disorders (3)

This course will address concepts of pharmacological properties and effects of psychoactive substances. The continuum of drug use will be discussed, such as initiation, intoxication, harmful use, abuse, dependence, withdrawal, craving, relapse, and recovery. Behavioral, psychological, social, and physical health effects of psychoactive substances, drug interactions, and medication-assisted therapies will be presented. The content of this course is based in part on TAP 21 competencies. This is a required course for addictions counseling licensing with the Kansas BSRB. Prerequisites: Admission to Graduate Program or Department consent.

HS 620 Integrative Approaches to Dual Disorders (3)

This course will discuss the collaborative approaches of psychopharmacology, psycho education, supported employment, and culturally sensitive/ integrated/recovery-oriented substance use and mental health treatment. The content of this course is based in part on TAP 21 competencies. This is a required course for addictions counseling licensing with the Kansas BSRB. Prerequisites: Admission to Graduate Program or Consent of Instructor.

HS 621 Women and Addictions (3)

Women with substance use disorders have serious and unique health concerns. Using a bio-psycho-social-spiritual framework, this course will examine how treatment services are changing to help women successfully navigate the road to recovery. Prerequisite: Department consent.

HS 623 Addiction Service Coordination (3)

This course focuses on the coordination of services for family and human services clients. Students will learn about intake, screening, assessment, diagnosis, client placement, treatment planning, discharge/transfer plans, report writing, referral and other aspects of service coordination. The course stresses a multidisciplinary approach to service coordination and examines the roles of professionals, agencies, families, community groups, and other support systems in the treatment process across the continuum of care. Students will learn effective, ethical ways to work with clients, with a focus on recovery-oriented systems of care. The content of this class is based in part on TAP21 competencies. Prerequisite: Department consent.

HS 625 Addiction/Recovery Services (3)

This course will cover the holistic theories and models of treatment which include the philosophies, practices, policies and outcomes of the most generally accepted and evidence-based models of treatment, recovery, relapse prevention, and continuing care for addiction and other substance-related problems. Students will consider the neurobiological, psychological, sociological, and spiritual theories of addiction and recovery, including theories necessary for social change related to addiction and recovery. An emphasis in the course will be given to recovery-oriented systems of care. The content of this course is based in part on TAP 21 competencies. This is a required course for addictions counseling licensing with the Kansas BSRB. Prerequisites: Admission to Graduate Program or Department consent.

HS 630 Lifespan Development (3)

This course will focus on an integrative approach to wellness from before conception through the end of life. Students will learn about research-supported strategies for supporting biological, psychological, social, and spiritual health and well-being with a focus on meeting needs of the "whole person" throughout the lifespan. Prerequisites: Admission to Graduate Program or Department consent.

HS 635 Diagnosis of Substance Use Disorders (3)

The course will cover diagnosis of substance use disorders, including the established diagnostic criteria for culturally sensitive screening, assessment, treatment planning, referrals, service coordination, documentation, and consultation. The theories and principles that support the diagnosis and treatment of substance use disorders will be discussed, including indications and contraindications for use of each theory or technique, rationale for intervention, role of the counselor, and importance of incorporating gender and ethnicity in selecting and using assessment and treatment methods. The content of this course is based in part on TAP 21 competencies. This is a required course for addictions counseling licensing with the Kansas BSRB. Prerequisites: Admission to Graduate Program or Department consent.

HS 640 Practicum I (3)

This course includes a seminar and placement at an approved practicum site, providing the opportunity for applying clinical professional skills under supervision. Course completion will require satisfactory evaluation by the field supervisor, fulfillment of seminar course requirements, and completion of required fieldwork and supervision hours. The skills practiced in this practicum are based on TAP-21 competencies. This is a required course for addiction counseling licensure with the Kansas BSRB. Prerequisites: HS 604, HS 605, HS 610, HS 635.

HS 641 Practicum II (3)

This course includes a seminar and placement at an approved practicum site, providing the opportunity for further refinement of clinical professional skills under supervision. Course completion will require satisfactory evaluation by the field supervisor, fulfillment of seminar course requirements, and completion of required fieldwork and supervision hours. The skills practiced in this practicum are based on TAP-21 competencies. This is a required course for addiction counseling licensure with the Kansas BSRB. Prerequisites: HS 604, HS 605, HS 610, HS 635; concurrent or prerequisite HS 640.

HS 650 Multicultural Issues (3)

This course provides an overview of the major issues in providing family and human services to the increasingly pluralistic population of the United States. Themes to be discussed are: cross-cultural theories of intervention, communication styles, definitions of suffering and recovery, and working with diverse individuals and groups. The range of human service delivery systems, including mental health, alcohol and substance abuse, youth services, gerontology, and victim/survivor services, will be addressed from a multicultural perspective. Emphasis will be on exploring provider attitudes and competencies as well as developing practical applications and solutions. For students preparing to work as addiction and recovery counselors, special emphasis will be given to recognizing the social, political, economic, and cultural context within which addiction and substance abuse exist, including risk and resiliency factors that characterize individuals and groups and their living environments. Prerequisites: Department consent.

HS 655 Peacemaking (3)

The course will cover the need for peace education in our society. Peace education is pertinent for students majoring in family and human services with an interest in working with violence and poverty prevention, social justice, the environment, youth, and sustainable communities. Other students will find value in the course through the experiential component of designing a peace education presentation that can be used in their community. Topics include personal peacemaking, nonviolence, conflict resolution, compassionate intentional living, civil rights, equity, education and the environment. Prerequisites: Department consent.

HS 660 Supervision and Leadership (3)

This course will provide the knowledge and skills for successful clinical supervision and leadership/administration in family and human services. The content of this course is based on TAP-21 Competencies. Prerequisites: Admission to Graduate Program or Department consent.

HS 665 Integrative Residential Experience (3)

This course offers students the opportunity to practice integrative approaches in a group setting. This is a 5-day residential that involves intense immersion in creative, expressive, service, and routine activities to enhance the experiential learning of students to incorporate these aspects into addiction counseling and other residential treatment facilities. Prerequisites: Admission to Graduate Program or Department consent.

HS 670 Mass Victimization/Mental Health (3)

This course will provide an overview of interventions used with victims following mass violence and disasters. Additionally, compassion fatigue effects and methods used to assist emergency responders who become victims of disaster through their role in response and recovery will be thoroughly discussed. Attention will focus on mental health effects dealing with both immediate and long-term recovery issues for immediate victims and those responding to the incident. Prerequisites: Department consent.

HS 673 Disaster Response and Recovery (3)

This course will provide an overview of the hazard cycle, and basic concepts of disaster preparedness, response, and recovery. Additionally, this course will provide an overview of the helping professional's role during times of disaster, including the discussion of the specific emergency support functions assigned to groups and agencies as designated in the National Response Framework. Emphasis will also be paid to concepts used when working with direct and indirect victims of disaster. Prerequisites: Department consent.

HS 674 Eastern Therapies in Intervention and Treatment (3)

This course highlights Eastern therapies in intervention and treatment across the range of human service populations, including mental health, alcohol and drug abuse, crisis and post-trauma, and crime victimization. The focus will be on an understanding of Western adaptations, transcultural, and holistic approaches to suffering and healing. Special emphasis will be on the Western adaptations of Morita and Naikan therapies. The course is highly interactive and experiential. Prerequisites: Instructor consent.

HS 676 Morita Therapy Intensive (3)

This course is intended for those seeking to integrate Morita Therapy into their professional and personal lives. Through experiential/residential learning, students will be able to identify how the concepts of the Morita lifeway are actually practiced in daily living; how the principles are applied to specific life situations; and how immersion in observation, timeliness, and efficiency produces a healthier and more productive helping professional. Prerequisites: Instructor consent.

HS 677 Morita Methods in Counseling (3)

This course applies the methods, principles, and theories of Morita Therapy to individual and group counseling in a variety of human service settings, including addiction treatment, victim/survivor assistance, mental health, and grief and dying. Emphasis will be on intervention and counseling approaches for particular client populations. Prerequisites: Instructor consent.

HS 678 Morita Therapy Research Seminar (3)

This course offers the unique opportunity to conduct field research on the practice and efficacy of Morita Therapy as it is applied in a variety of outpatient, hospital, and residential treatment settings. The major component of the course may be a study abroad whereby students will participate in small group meetings with, and attend lectures by major Morita educators, researchers, and practitioners. This is a rare opportunity for students to learn first-hand from the leading Moritists. Current study abroad sites include Japan, Canada, Australia, the United Kingdom, and Russia. Prerequisites: Instructor consent.

HS 679 Narrative Practice (3)

This course explores the approach of narrative practice as a tool for healing and teaching. Students will become familiar with the basic goals, concepts, and approaches of narrative practice, and the potential contributions of narrative practice to create change. Narrative practice includes using poetry, letter writing, storytelling, journaling, and more, as tools to promote healing, recovery and personal growth. Students will read and discuss the literature relating to narrative practice and will study the implications of the narrative perspective for counseling. They will learn about the application of narrative practice through classroom based experiential exercises and other assignments. Students will learn how narrative practice helps individuals and groups rewrite their stories to transform their lives. Prerequisites: Admission to Graduate Program or Consent of Instructor.

HS 685 Special Topic Seminars (1-6)

Topics will vary by semester and will be announced in advance. Prerequisites: Admission to Graduate Program or Department consent.

HS 695 Applied Research (3)

This course covers the purposes and techniques of applied research, including qualitative and quantitative approaches. Topics to be discussed include research methodology, data collection and analysis, computer research skills, critical evaluation of professional research reports, and practical application of research within cultural and historical context. . The content of this course is based in part on TAP 21 competencies. This is a required course for addictions counseling licensure with the Kansas BSRB. Prerequisite: Admission to the Graduate Program or Department consent.

HS 777 Continuous Enrollment (1-3)

This course is to allow students additional time to complete Capstone, Thesis or Practicum requirements. Prerequisite: Instructor consent.

Industrial Technology (IND)

IND 103 OSHA 10-Hr Healthcare (1)

Safety Orientation/OSHA 10 provides the student with an overview of the OSHA standards relevant to the construction industry. Various topics are presented in a 15-hour format. Among the subjects covered in the course are: an introduction to OSHA, electrical safety, fall protection, and excavation and trenching safety.

IND 104 Basic Electricity I (3)

This course is an introduction to electricity, basic electrical components and their characteristics, circuit schematics and basic analysis of series and parallel DC circuits. Hands-on labs help guide student learners to assimilate this material.

IND 105 OSHA - 10 Hr Gen Industry Cert (1)

This course is offered in an online or face-to-face format. For the online course, all course activities are completed through an interactive self-paced website. In the face-to-face format, a variety of classroom and/or lab learning and assessment activities are used to present the material. In both formats students in this course will: explain job/site safety and precautions for job/site hazards; determine the uses of personal protective equipment (PPE); identify the safety equipment and procedures related to safe work practices and environment; identify fire prevention and protection techniques; explore Hazardous Communications (HazCom) including Material Safety Data Sheets (MSDS).

IND 107 OSHA - 10 Hour Const Ind Cert (1)

This course provides the student with an overview of the OSHA standards relevant to the construction industry. Various topics are presented in a 10-hour format. Among the subjects covered in the course are: and introduction to OSHA, electrical safety, fall protection, excavation and trenching safety.

IND 109 OSHA - 30 Hour Const Ind Cert (2)

Students will learn basic OSHA regulations and safety. The students will also learn how to read the OSHA manual properly. The course will stress the importance of personal protective equipment; fall protection, hazard recognition and other topics connect to on the job site safety. The course will also provide the student with an understanding of current safety regulation, established safety practices, and the impact of behavior and environment on injury prevention.

IND 111 OSHA - 30 Hour Const Ind Cert (3)

This course provides an overview of the Occupational Safety and Health Administration Construction Training Topics. This course is intended to provide entry level construction workers a broad awareness on recognizing and preventing hazards on a construction site. This course will also address real world challenges that electrical workers face on a daily bases. It will introduce avoiding oversights that could result in shock and arc flash accidents. The material presented will emphasize the rules specified by the National Fire Protection Association (NFPA) using NFPA 70E standards. After taking this course, students will be able to take the arc flash certification test.

IND 112 Fluid Power I (3)

This course provides fundamentals of pneumatics, air compressors, control valves, pneumatic cylinders, and electro-pneumatic controls; and basic pump principles, centrifugal pumps, magnetic drive pumps, diaphragm pumps, metering pumps and pump seals. Students learn how to operate, install, troubleshoot, analyze performance, and design basic pneumatic systems and pump systems. Students will learn how to read basic fluid power schematics.

IND 116 Lathe/Mill/Grind for I.M. (3)

This course covers fundamental manual machine operator skills and basic precision measuring techniques. Specific course topics include machines, tools and measurements to produce an end product. Participants work independently and as small teams in completing the hands-on lab activities. Students will learn how to read basic blueprints.

IND 127 Mechanical Systems (3)

This course provides understanding of mechanical energy transmission concepts along with lab experience to operate, install, analyze performance, and design basic mechanical transmission systems using chains, v-belts and spur gears. Students also learn how to safely move loads of different shapes and sizes using a variety of methods.

IND 146 Industrial Welding Basics (3)

This course introduces basic concepts of Industrial welding. Hands-on lab activities are provided for the participant to apply knowledge and develop skills in the following areas: Shop Safety, basics into GMAW and GTAW welding. Participants will work independently and as small teams in completing the lab activities.

IND 147 Mechanical Systems Reliability (3)

This course provides understanding of mechanical energy transmission concepts along with lab experience to operate, install, analyze performance, and design mechanical drive systems using right angle gears, bearings and couplings. Students learn how to setup and operate laser shaft alignment and apply vibration analysis to various power transmission systems. Prerequisite/Corequisite: Mechanical Systems or consent of instructor.

IND 152 Electrical Control Systems I (3)

This course is an introduction to electrical control systems with focus on control devices, electric motors, manual/electric/magnetic motor control and overload/over current protection and monitoring. Lab experience helps develop skills to operate, install, design, and troubleshoot AC electric motor control circuits for various applications. Students will learn to read and draw wiring and ladder drawings. Prerequisite: IND104 Basic Electricity I.

IND 204 Electrical Control Systems II (3)

This course provides an understanding of Reversing Motor Circuits, Solid State Devices and System Integration, Timing and Counting Functions, Relays and Solid State Starters, Sensing Devices and Controls. Hands-on labs help guide student learners to assimilate this material. Prerequisites: IND104 Basic Electricity I; IND152 Electrical Control Systems I.

IND 207 Fluid Power II (2)

This course focuses on understanding of hydrodynamics, hydraulic principles, hydraulic circuitry and diagrams, piping, hydraulic valves and actuators, accumulators, hydraulic circuit maintenance and fluid maintenance. Students learn to operate, install, analyze performance, and design hydraulic and electrohydraulic systems. Prerequisite: Fluid Power I or consent of instructor.

IND 213 Advanced ECS (3)

This course focuses on motion and position control systems; servo motors, servo system feedback devices, and variable frequency drives. Hands-on labs help develop skills to operate, install, tune, and troubleshoot major types of AC and DC drives. Prerequisite: IND104 and IND152; or consent of instructor.

IND 217 Indust Prog Logic Controllers (3)

This course is an introduction to programmable logic controllers (PLCs) and PLC control of analog input and output devices. The course covers basic PLC programming and troubleshooting with live devices and their use in industrial, commercial, and residential applications. Prerequisites/ Corequisites: Electrical Control Systems II, Fluid Power I, or consent of instructor.

IND 223 Commercial & Industrial Wiring (3)

This course covers the routing, labeling, and the installation of wiring and components in an electrical control panel as well as wiring electric motors and external devices. This course also includes basic conduit bending and installation, selecting wire for an application, soldering, running network cables, and learning techniques to keep wiring and control panels tidy and organized. Prerequisites: IND104 and IND152

IND 247 Industrial Process Control (3)

This course provides understanding of different types of process control systems like temperature, flow and level control. The course includes process control principles, thermocouples, RTD's, temperature measurement devices, On/Off temperature controllers, programmable process heat controllers, transmitters, process loop test equipment and final control elements. Using this information students learn to construct, test and operate systems found in industrial applications. Prerequisites: Electrical Control Systems I, Fluid Power II, or consent of instructor.

IND 252 Robotics I (3)

This course is an introduction to robotics which provides an understanding of basic robotics principles, parts of robots, degrees of freedom, programming methods and languages. Students learn to home a robot, test teach points, construct flow charts and design simple robot programs for different applications.

IND 256 Robotics II (3)

This course builds on the knowledge gained in 'Robotics I' and focuses on sensors, end effectors, control systems and maintenance. Students learn advanced commands and operators, create simulation objects, configure objects and design work cells.

Information Literacy (IL)

IL 170 Library Research Strategies (1)

Designed to both introduce and improve basic library research skills using the print and automated information retrieval resources of the Mabee Library. Additional in-depth analysis of database sources, the ability to construct search strategies and evaluation of materials are covered. Prerequisites: None.

(General Ed Humanities, General Ed Natural Science, General Ed Social Science. Information Literacy and Tech.)

IL 171 Internet Research Strategies (1)

Designed to both introduce and improve research strategies for finding scholarly information on the Internet, including resources in the Invisible Web that cannot be accessed with standard search engines, such as Google. Students will learn to formulate and modify an effective search strategy, investigate the theory behind the search process, and critically evaluate electronic resources based on appropriate criteria. This course is offered on-campus, on-line or hybrid. Prerequisites: IL 170.

IL 172 Advanced Research Strategies (1)

Designed to introduce and improve advanced research strategies for students that have completed both IL 170 and IL 171. Students will focus on research in the disciplines and create artifacts for an identified discipline. This course is ideal for students that are interested in designing a research plan for publication. This course is offered on-campus, on-line or hybrid. Prerequisites: IL 171.

IL 174 Trace Your Family History (1)

In this course, students will use an advanced approach to the research process and methods for retrieving information for a scholarly paper or presentation. Experience in the research process, selecting a topic, and retrieving information on topics is required. Focus is on developing the following skills: understanding the many types of research, methods, delivery of research results in the academic community. Prerequisites: None.

IL 300 Information Literacy for Scholars (3)

In this course, students will use an advanced approach to the research process and methods for retrieving information for a scholarly paper or presentation. Experience in the research process, selecting a topic, and retrieving information on topics is required. Focus is on developing the following skills: understanding the many types of research, methods, delivery of research results in the academic community. Prerequisites: None.

IL 301 Google and Beyond (3)

An introduction to information searching and evaluating information in digital, print, visual, and aural formats, students will learn advanced search techniques used in online resources. Students will develop skills to locate reliable information to become and remain informed citizens. This class will improve student communication, critical thinking, and information literacy skills. Prerequisites: None.

IL 311 Information Literacy Health Professions (3)

This course acquaints students with the processes of finding, organizing, using, producing and distributing information in a variety of formats specific to the Health Sciences. Students will examine the flow of information in a variety of Health Sciences disciplines, effective research processes, how to access information in multiple formats and how to formulate effective searches in health specific electronic databases and on the Internet. Learning how to evaluate the quality of information and becoming familiar with practical, social and ethical issues relating to information within the health professions in an increasingly technological society is a key component of the course. This class seeks to improve student communication, critical thinking and information literacy skills in health professions. Prerequisites: None.

IL 321 Information Organization and Access (3)

This course introduces the fundamentals of identifying objects or ideas, including description, content indication, and metadata. Students will learn basic aspects of representing and organizing information resources in daily lives or academic settings. This class will improve student communication, critical thinking, and information literacy skills. Prerequisites: None.

IL 351 Information, Culture, & People (3)

In a study of how individuals and groups create meaning, students will explore research topics concerning people and communication, including information literacy, organization and innovation, knowledge management, and information as cultural phenomenon. Students will study various international and generational cultures' access to and ways to share information, preparing them for interaction with professional colleagues from varied backgrounds. This class will improve student communication, critical thinking, information literacy skills, and understanding of the knowledge society. Prerequisites: None.

IL 398 Information Literacy Readings (3)

The 3-credit forum course for Information Literacy Minors to provide students guidance and training in the skills and processes necessary for the practice of Information. The course draws upon research methods and critical analysis culminating with an annotated bibliography. Also, students will be introduced to opportunities in the Information Literacy field and the ethics of information literate citizens in the knowledge society. The course will be delivered online. Prerequisites: IL 170, IL 171, and IL 172 or consent of instructor.

IL 399 Information Literacy Research (1-3)

The capstone course for Information Literacy Minors devoted to guided and independent research, developing bibliographic techniques in the creation of a written artifact and culminating in a presentation to the class. The course will be delivered online. Prerequisites: IL 170, IL 171, and IL 172 or consent of instructor.

Intensive English (IE)

IE 070 Intensive English-Acad Purp I (3)

Combined skills course with IE 100 centered around U.S. cultural themes. It is considered a special topic course as the needs of the students taking it are considered when designating the specific outcomes of English language learning and cultural competence. It may be offered as a short-term course for exchange/visiting students for English language skills improvement within a U.S. cultural experience.

IE 071 Grammar and Structures for Academic Purposes I (3)

Foundation course focusing on English grammar & structures. Students will learn to construct sentences (from simple to compound to complex) & write paragraphs. The objective is to help students improve their vocabulary, grammatical & basic writing skills.

IE 072 Reading Comprehension for Academic Purposes I (4)

Develops nonnative English speakers' vocabulary and reading skills for personal and academic communication using materials with diverse topics. Students focus on learning the most common words in English and begin to do sustained content reading at a high beginning level using strategies to help them increase comprehension and gain fluency and vocabulary. Prerequisite: None.

IE 073 Speaking and Understanding for Academic Purposes I (4)

Students are introduced to the words and phrases needed for everyday social situations including introductions and begin to develop their listening skills in simple conversations and speaking skills for the U.S. college classroom.

IE 074 Writing for Academic Purposes I (4)

This course is for nonnative English speakers and focuses on foundational writing skills from sentence structure to well-organized paragraphs of various kinds. Besides analyzing audience and purpose, basic citation and research skills are covered. Students will develop skills in writing sentences with correct structure and a beginning-level paragraph on concrete or personal subjects. They will also be able to use technology to compose their writing, including appropriate written communication with an instructor.

IE 091 Language in Context Seminar I (0-2)

IE 091 and IE 092 give international students unique opportunities to experience language in local cultural contexts and challenge their application of the English language. Students will go on field trips and hear guest speakers from diverse backgrounds on relevant topics to the international student. Students will be required to complete a project and write a journal with reflections on their experiences. IE 091 is offered in the fall and IE 092 is offered in the spring. These courses meet for one-three hours per week but do not count toward the 120 hour baccalaureate degree requirement. Full time Intensive English students are required to enroll in these courses. No prerequisite. Repeatable.

IE 092 Language in Context Seminar II (0-2)

IE 091 and IE 092 give international students unique opportunities to experience language in local cultural contexts and challenge their application of the English language. Students will go on field trips and hear guest speakers from diverse backgrounds on relevant topics to the international student. Students will be required to complete a project and write a journal with reflections on their experiences. IE 091 is offered in the fall and IE 092 is offered in the spring. These courses meet for one-three hours per week but do not count toward the 120 hour baccalaureate degree requirement. Full time Intensive English students are required to enroll in these courses. No prerequisite. Repeatable.

IE 100 Intensive English-Acad Purp II (1-3)

Combined skills course with IE 070 centered around U.S. cultural themes. It is considered a special topic course as the needs of the students taking it are considered when designating the specific outcomes of English language learning and cultural competence. It may be offered as a short-term course for exchange/visiting students for English language skills improvement within a U.S. cultural experience.

IE 101 Grammar and Structures for Academic Purposes II (3)

Foundation course focusing on English grammar & structures. Students will learn to construct sentences (from simple to compound to complex) & write paragraphs. The objective is to help students improve their vocabulary, grammatical & basic writing skills.

IE 102 Reading Comprehension for Academic Purposes II (4)

Develops nonnative English speakers' vocabulary and reading skills for personal and academic communication using materials with diverse topics. Students will become active readers of content in English at an intermediate level and further develop their strategies for vocabulary learning and reading fluency to increase their comprehension and also their understanding of text organization. Prerequisite: IE 072, or equivalent English proficiency test scores, or IEP coordinator permission,

IE 103 Speaking and Understanding for Academic Purposes II (4)

Nonnative English-speaking students practice to improve their oral and aural skills. They prepare to participate in everyday social conversations, classroom interactions, listening effectively to lectures and being involved in basic discussions. Students are expected to prepare and give short speeches and will be tested weekly on a list of idiomatic expressions. Students develop intermediate level skills to participate in everyday social conversations, classroom interaction, and intermediate-level discussions. Students will also increase their listening and note-taking skills to be able to comprehend short lectures on general topics. Prerequisite: IE 073, or equivalent English proficiency test scores, or IEP coordinator permission.

IE 104 Writing for Academic Purposes II (4)

This course for nonnative English speakers focuses on foundational writing skills from sentence structure to well-organized paragraphs of various kinds. Besides analyzing audience and purpose, basic citation and research skills are covered. Students will develop skills in writing intermediate-level academic paragraphs of the following types: definition, description, opinion, explaining processes. Students will also learn strategies to apply to writing and editing. Prerequisite: IE 074, or appropriate English proficiency test scores, or IEP coordinator permission,

IE 201 Grammar and Structures for Academic Purposes III (3)

Foundation course focusing on English grammar & structures. Students will learn to construct sentences (from simple to compound to complex) and write paragraphs. The objective is to help students improve their vocabulary, grammatical & basic writing skills.

IE 202 Reading Comprehension for Academic Purposes III (4)

By reading books, articles and sample academic texts, nonnative English speakers in this course study and practice effective reading and investigating strategies to discover the ways ideas are expressed and put into writing. Besides building academic vocabulary, the goals are increased reading fluency, speed and understanding. Students will develop academic vocabulary, reading fluency, comprehension and strategies to become active readers at a high intermediate/low advance level monitoring and adjusting their strategies to meet the demands of academic reading for university courses. Prerequisite: IE 102, or equivalent English proficiency test scores, or IEP coordinator permission.

IE 203 Speaking and Understanding for Academic Purposes III (4)

This course focuses specifically on the skills needed for presentations, the basic organization of American communication, and idiomatic expressions that prepare the student for the American academic and professional environment. Cannot be taken concurrently with CN 150 Public Speaking. Students will also increase their listening and note-taking skills to be able to comprehend lectures on general academic topics. Prerequisite: IE 103, or equivalent English proficiency test scores, or IEP coordinator permission.

IE 204 Writing for Academic Purposes III (4)

Students develop the ability to compose, (i.e., comprehend, select, plan, draft) and produce essay length texts on diverse general education academic topics by applying appropriate writing strategies with basic knowledge of how to use other sources and cite without plagiarism. Cannot be taken concurrently with EN 101. Prerequisite: IE 104, appropriate English proficiency test scores, or IEP coordinator permission.

IE 294 Writing for Academic Purposes III (GR only) (3)

Transitional course for graduate students. Expressing ideas in writing for the American academic and business reader is the goal in these courses for nonnative English speakers. Students will learn the conventions of expository paragraphs, essays and investigative reports. Summary, analysis, citation and research skill practice are included. Cannot be taken concurrently with EN 101 First Year Writing or EN 300 Advanced College Writing.

IE 295 Special Topics: Enhancing Skills for Graduate Studies (3)

This course for non-native English speakers only will orient students who haven't completed an undergraduate degree in the US to the style and rigor specified by individual graduate programs. Typically this will involve specific instruction to help students improve research, presentation, group work, and higher level academic writing skills that are required by graduate programs. Topics and targeted programs will be announced in advance. Prerequisite: IE 202 and IE 204 or equivalent iBT, TOEFL, IELTS scores or instructor permission.

Interdisciplinary Studies (IS)

IS 000 Reservation Placeholder (0)**IS 110 Special Topics (0-6)**

Special topics in interdisciplinary studies announced in advance. May be repeated with different topics. Prerequisite: Consent of Instructor

IS 201 Study Abroad (0-18)

Approved study abroad program coordinated by the Office of International Programs.

IS 203 Study Abroad (1-18)

Approved study abroad program coordinated by the Office of International Programs.

IS 221 Study Abroad External Program (0-18)

Approved external (non-Washburn) study abroad program coordinated by the Office of International Programs.

IS 270 Grant Writing I (3)

This internship course is designed to provide pre-professional work experience, in a sponsored projects office, to facilitate professional development and career exploration in grant writing and grant proposal development in response to either a private or a public opportunity. Prerequisite: None.

IS 300 Mock Trial II (1)

Enrollment is open only to students selected to the Mock Trial Team.

IS 301 Study Abroad (0-18)

Approved study abroad program coordinated by the Office of International Programs.

IS 303 Study Abroad (1-22)

Approved study abroad program coordinated by the Office of International Programs.

IS 321 Study Abroad-US Host University (0-18)

Approved study abroad program hosted by another U.S. institution coordinated by the Office of International Programs. Prerequisite: Consent of Instructor.

IS 389 Integrated Studies Capstone Proposal (1)

This course is the prerequisite course to the IS 390 Capstone Project course and must be taken the semester immediately preceding IS 390 or special permission by the BIS Director. This course is designed to assist the student in developing an appropriate capstone project. Prerequisite: At least thirty completed hours from either the Individualized Study Plan (ISP) or the Multi-Disciplinary Study Plan (MDSP) or special permission by the BIS Director.

IS 390 Integrated Studies Capstone (1-7)

The thoughtful integration of diverse materials is a major demand on the student working toward a Bachelor of Integrated Studies. The format may vary in terms of the student's special interests, abilities, imagination, and creativity. May consist of a research paper, a comprehensive written examination on selected reading materials, an oral presentation, or a special performance utilizing one or more art forms or modes of expression. Prerequisite: IS 389 or by consent of the BIS Director.

IS 400 Special Topics (0-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: Consent of instructors.

IS 420 Study Abroad Internal Program (1-18)

Approved senior- or graduate-level study abroad programs coordinated by the Office of International Programs.

IS 421 Study Abroad External Program (0-18)

Approved study abroad programs for senior- or graduate-level hosted by another US institution.

IS 470 Grant Writing II (3)

This internship course is designed to provide pre-professional work experience, in a sponsored projects office, to facilitate professional development and career exploration in grant writing and grant proposal development in response to both private and public grant opportunities. Prerequisite: None.

IS 471 Grant Administration Internship (3)

This course is designed to provide pre-professional work experience, in a sponsored projects office, to facilitate professional development and career exploration in the administration and management of a grant (sponsored project) award. Prerequisite: IS 270 or IS 470.

Japanese (JP)

JP 101 Beginning Japanese I (4)

Introduction to conversation, reading, writing, grammar and composition. Development of oral/aural skills. Particular emphasis on contemporary culture and social customs in Japan. A CD Rom program to develop phonological skills is a component of this course. Offered fall semester only. No prerequisite.

JP 102 Beginning Japanese II (4)

Continuation of Japanese I. Offered spring semester only. Prerequisite: JP 101 or consent of instructor.

(General Ed Humanities. Global Citizenship Ethics Div.)

JP 201 Intermediate Japanese I (3)

This course is intended as reinforcement of the 5 skills learned in JP 102: speaking, listening, reading, writing and culture. This course is the continuation of JP 102.

(General Ed Humanities. Global Citizenship Ethics Div.)

JP 202 Intermediate Japanese II (3)

This course is a continuation of JP 201.

(General Ed Humanities. Global Citizenship Ethics Div.)

Kansas Studies (KS)

KS 199 Special Topics: Kansas Studies (3)

An interdisciplinary topics course on a theme associated particularly with Kansas history and culture, which is team taught by Fellows of the Center. Students and faculty will be challenged to integrate material from different perspectives on a common topic based on joint interest and available resources. As topics change, the course may be repeated for credit.

KS 340 Kansas Studies (1-3)

A multidisciplinary course taught by faculty members of the Center for Kansas Studies that stresses the interrelationships among all aspects of Kansas including anthropology, archaeology, ethnicity, fine arts, geography, geology, history, literature, politics and religion. Prerequisite: None.

(General Ed Social Science. Global Citizenship Ethics Div.)

KS 395 Independent Study - Kansas Studies (1-3)

Directed readings and individualized research program on a subject relevant to Kansas Studies and with the guidance of a professor. May be taken for more than one semester. Prerequisite: Consent of Instructor and approval of Director of the Center for Kansas Studies.

KS 397 Internship in Kansas Studies (1-3)

A program for junior/senior-level undergraduates offered in cooperation with a local or state agency with the supervision of the Director of the Center for Kansas Studies. Prerequisite: Approval of Director of the Center for Kansas Studies.

KS 399 Special Topics-Kansas Studies (3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: Consent of Instructor

Kinesiology (KN)

KN 100 Rhythmic Fitness (1)

Rhythmic Fitness

KN 101 Body Toning (1)

Body toning.

KN 102 Archery (1)

Archery

KN 103 Badminton (1)

Badminton

KN 104 Step Aerobics (1)

Step Aerobics

KN 107 Basketball (1)

Basketball

KN 109 Bowling (1)

Bowling

KN 111 Canoeing (1)

Canoeing

KN 112 Cycling (1)

Cycling

KN 113 Fencing (1)

Fencing

KN 117 Golf I (1)

Golf

KN 123 Judo (1)

Judo

KN 124 Karate (1)

Karate

KN 125 Lifeguard Training (1)

Lifeguard Training

KN 129 Racquetball (1)

Racquetball

KN 132 Softball (1)

Softball

KN 133 Swimming I (1)

Swimming I

KN 134 Swimming II (1)

Swimming II

KN 137 Tennis (1)

Tennis

KN 139 Tai Chi (1)

Tai Chi

KN 140 Pilates (1)

Pilates

KN 141 Yoga (1)

Yoga

KN 142 Zumba (1)

Zumba

KN 143 Soccer (1)

Soccer

KN 144 Volleyball (1)

Volleyball

KN 146 Weight Training (1)

Weight Training

KN 152 Kardio Kickbox (1)

Kardio Kickbox.

KN 157 Country & Western Dance (1)

Country and Western Dance

KN 162 Beginning Skin & Scuba Diving (1)

Beginning Skin and Scuba Diving

KN 165 Self-Defense (1)

Self-Defense

KN 169 Social Dance (1)

Social Dance

KN 170 Aqua Exercise (1)

Aqua Exercise

KN 171 Deep Water Walking (1)

Deep Water Walking

KN 173 Water Safety Instructor (1)

Water Safety Instructor

KN 176 Tae Kwon Do (1)

Tae Kwon Do

KN 190 Special Topics (1)

Special Topics

KN 192 Marathon Training I (1)

Marathon Training I

KN 193 Marathon Training II (1)

Marathon Training II

KN 240 Coaching Principles and Philosophy (2)

This course is required for the Minor in Coaching. It is designed to provide students with a basic understanding of coaching principles and help students develop a sound coaching philosophy. Students will examine their roles as coaches, improve communication and management skills, develop technical coaching skills, and learn proper team training and management strategies. This course will provide content necessary for students to complete the American Sport Education Program's (ASEP) certification exam. Prerequisite: Sophomore status.

KN 248 Wellness Concepts and Applications (3)

The purpose of this course is to introduce and explore the essential concepts of wellness and to gain an understanding of the processes that contribute to developing and maintaining a healthy lifestyle. The wellness approach will emphasize personal responsibility for one's health through critical examination and evaluation of the consequences of lifestyle choices, the selection and development of behavior change skills that promote optimal enhancement of all wellness dimensions, and the creation of a personal wellness plan for a productive and satisfying life. Prerequisite: None.

(General Ed Social Science. Critical and Creative Thinking.)

KN 250 Introduction to Kinesiology (2)

This course examines the process of human movement as a unifying element in the study of the discipline of Kinesiology. Content areas include the scientific foundations of human movement, the history and philosophy of physical education, the role of physical education in the educational process, general purposes of Kinesiology programs, career orientation and the future of Kinesiology.

KN 253 Fundamentals of Football Coaching (2)

Fundamentals and coaching techniques involved in coaching football. Rules, practice and game day organization, offensive and defensive techniques and strategies, and administrative requirements will be covered. Designed for those who intend to coach football.

KN 257 Prevention and Care of Athletic Injuries (3)

This course will instruct and evaluate contemporary methods of conditioning, prevention, recognition and acute care of athletic injuries. This course will also focus on risk assessment and management relating to physical activity. The course is appropriate for Kinesiology majors, pre-healthcare majors, and students interested in coaching. An additional fee is associated with this course.

KN 266 Microcomputer Applications to Kinesiology (2)

This course examines computer technology applications and software related to Kinesiology and Physical Education. Prerequisite: Kinesiology or Physical Education Major, KN 248 and KN 250; or 54 credit hours and consent of instructor.

KN 271 First Aid and CPR (2)

General emergency first aid including sudden illness, musculoskeletal injuries, heat/cold emergencies, splinting, bandaging and CPR. Opportunity is provided to earn both American Red Cross Responding to Emergencies First Aid and CPR certifications. An additional fee is associated with this course.

KN 280 Sports Officiating I (2)

Study and interpretation of current rules; field work for practicing officiating techniques. Prerequisite: Consent of instructor.

KN 291 Field Experience 1 in Exercise and Rehabilitation Science (1)

This course is designed to help students explore exercise and rehabilitation professions, providing them a framework for the foundational knowledge and skills gained as an exercise and rehabilitation science major. Field observations exposing majors to potential careers and professional settings are included. Prerequisites: KN 248 & AL 101 or KN 250 & NU 102.

KN 299 Measurement and Evaluation in Kinesiology (2)

This course is designed to provide students with an understanding of measurement and evaluation principles in Kinesiology, and emphasizes the selection, development, administration and interpretation of appropriate assessments for physical education. Skill performance and fitness assessments with computer applications will be included. Prerequisites: KN 248 and KN 250, plus MA 112 or MA 116.

KN 300 Psychology of Sport and Physical Activity (3)

The study of psychological processes related to sport and exercise behavior. The course will provide a broad overview of the major topics, including: motivation, arousal, goal-setting, self-confidence, and imagery. Prerequisites: KN 248 and KN 250, or junior standing and consent of instructor.

KN 302 Coaching Basketball (2)

Fundamentals and coaching techniques in basketball. Rules, offensive and defensive strategies, planning practice sessions, and administrative requirements to coach basketball. Prerequisite: None.

KN 303 Coaching Track & Field (2)

Fundamentals and coaching methods in all events within the track and field program. Rules, regulations and administrative requirements to coach track and field.

KN 304 Coaching Baseball & Softball (2)

Individual fundamentals and team play in baseball and softball. Rules, strategies, and administrative requirements to coach baseball and softball.

KN 305 Coaching Volleyball (2)

Fundamentals and coaching techniques in volleyball. Rules, strategies and administrative requirements to coach volleyball. Prerequisite: None.

KN 306 Organization and Administration in Kinesiology (3)

This course is designed to provide a theoretical and practical approach to the organization and administration of Kinesiology programs. Students will be assigned administrative projects to enhance learning. Prerequisite: junior standing or consent of instructor.

KN 308 Nutrition for Sports & Fitness (3)

This course will provide an understanding of nutrition and its relationship to physical fitness and sports performance. Students will learn about nutrition guidelines and the effects of nutrition on topics such as metabolism, hydration, body composition, supplements, ergogenic aids, and sports specific training. In addition, students will perform and analyze nutrition and energy assessments and make recommendations to improve performance. Prerequisite: KN 248 and KN 250, or junior standing and consent of instructor.

KN 311 Motor Development (3)

This course is designed to provide students with an examination of current theories of motor development throughout the life cycle. Emphasis is placed on development of fundamental motor skills, physical growth and development, and assessment. Students will be required to conduct a variety of assessments on diverse individuals. Prerequisites: Either KN 260, KN 261, KN 360, or KN 361 or consent of instructor.

KN 315 Special Topics in Kinesiology (1-3)

May vary from semester to semester. May be taken more than one semester depending upon topic.

KN 318 Exercise Psychology (3)

This course will introduce students to the basics and provide a solid foundation of psychological consequences and adherence aspects associated with the psychology of exercise. The interconnection among theory, research, application, and intervention will be utilized in order to apply the knowledge learned in this course to actual situations. Prerequisites: KN 248 and KN 250, or junior standing and consent of instructor.

KN 321 Anatomical Kinesiology (3)

The study of anatomical and mechanical principles in relation to human motion. Prerequisite: BI 250 or BI 275.

KN 326 Physiology of Exercise (3)

Process of scientific inquiry applied to physiological systems engaged in exercise. Examination of the acute and chronic effects of exercise on structure, function, and performance. Prerequisite: BI 255.

KN 327 Physiology of Exercise Lab (1)

The purpose of this course is to gain an understanding of the physiology (neuromuscular, metabolic, and cardiopulmonary) of exercise, including the physiology of training (i.e., the acute responses and chronic adaptations that occur due to exercise). This course will reinforce the basic exercise physiology concepts via application, increase awareness of and proficiency in performing selected laboratory tests and measurements commonly used in exercise physiology studies of humans, and provide practice in the process of data collection, evaluation and reporting. Prerequisites: BI 255; must be taken concurrently with KN 326.

KN 330 Administration of Exercise and Rehabilitation Science (3)

This class is designed to provide foundational information relating to the Administration of Exercise and Rehabilitation Science professions for Kinesiology majors who intend on pursuing Exercise or Rehabilitation Science professions. Students will learn the importance of quality management of financial, human, and facility resources. Prerequisites: KN 291 and junior standing.

KN 335 Human Factors and Ergonomics (3)

This course examines human factors and ergonomics as the interdisciplinary study of humans interacting with elements of systems in the workplace and other environments. Thorough analysis, evaluation, and synthesis are employed in the application of design to optimize well-being and performance. Prerequisite: junior standing or consent of instructor.

KN 340 Adapted Physical Education (3)

This course will provide students with the knowledge, skills and instructional techniques necessary to adapt and modify physical activities for students with developmental delays and/or mental and physical disabilities. Legal issues associated with educating individuals with disabilities in the physical education setting will be examined. A practicum experience in the public school setting and/or community setting is required. Prerequisite: KN 311 or consent of instructor.

KN 341 Physical Education Activity Techniques I (2)

This course emphasizes the learning of basic skills and teaching progressions, including lead-up games/activities, instructional strategies & teaching methods for activities such as basketball, soccer/speedball, softball, flag football, team handball, lacrosse, and floor hockey. Prerequisites: KN 248 and KN 250.

KN 342 Physical Education Activity Techniques II (2)

This course emphasizes the learning of basic skills and teaching progressions, including lead up games/activities, instructional strategies and teaching methods of aerobics, weight lifting, track and field, and unique physical education games. Prerequisites: KN 248 and KN 250.

KN 343 Physical Education Activity Techniques III (2)

This course will provide undergraduate physical education majors with an introduction to a variety of sports and activities found in various school curricula. Additionally, the course will provide an opportunity for students to gain teaching experience through peer-teaching experiences. Sports and activities to be covered will include: Archery, Badminton, Bowling, Golf, Pickleball, Table Tennis, Tennis, and Volleyball. Prerequisites: KN 248 and KN 250

KN 344 Physical Education Activity Techniques IV (2)

This course emphasizes the learning of basic skills and teaching progressions, instructional strategies and teaching methods for these activities: Pre-K – 12 rhythms and dance, including creative rhythms, social, folk and line dances, and basic tumbling, stunts and balance activities. Prerequisites: KN 248 and KN 250.

KN 345 Physical Education Activity Techniques V (2)

This course will provide Physical Education and Kinesiology majors with an introduction to a variety of outdoor activities and related teaching experiences. The overall purpose is to provide potential teachers and recreational leaders with the foundational knowledge and skills necessary to teach and participate in a variety of outdoor leisure activities. An additional fee is associated with this course. Prerequisites: KN 248 and KN 250.

KN 350 Orthopedic Evaluation (3)

This course is designed to instruct students on the techniques involved evaluating orthopedic injuries. This course will cover the sequence of a formal evaluation, documentation, the signs & symptoms of common injuries, & differential diagnosis. Prerequisite: KN 321.

KN 357 Sports Performance Training and Reconditioning (3)

This course provides students with the knowledge and skills to design, measure, and instruct contemporary activity-specific functional training programs. The course will emphasize methods and progression of strength, flexibility, speed, power including Olympic lifts and plyometrics, agility, balance, core and endurance training techniques with modern tools and exercise equipment. Peer teaching and testing and opportunity to participate in practical application of skills is included. Prerequisite: BI 255 and KN 342.

KN 367 Therapeutic Exercise (3)

This course is designed to provide Kinesiology majors with theoretical basis, comprehension and synthesis in the application of therapeutic exercise to address metabolic disease and musculoskeletal disorders. Students will develop specific exercise approaches for a varied population of people with a variety of special conditions to improve movement, function and quality of life. Prerequisite: KN 321.

KN 370 Facility & Event Management (3)

This course addresses the principles and procedures involved in sports facility and event management. Special emphasis will be given to sports event planning, production and evaluation. Prerequisite: KN 306 or instructor approval.

KN 403 Biomechanics (3)

This course provides an overview of biomechanics related to sport and exercise. Specific topics include: external forces and their effect on the body and its movement, including linear and angular kinetics; work, power, and energy in human activity; and the internal mechanics of human tissues, specifically the bones, skeletal muscle, ligaments, and tendons that make movement possible. This course will consist of lecture, discussion, and laboratory sessions to communicate the background of biomechanical principles, as well as their application. Prerequisites: KN 321 and PS 131/PS 132 or PS 261

KN 410 Fitness Testing and Exercise Prescription (3)

Students will become familiar with current fitness testing procedures and exercise prescription methods. Prerequisites: KN 326 and KN 342, MA 140 or PY 151.

KN 411 Current Literature in Kinesiology (3)

This course acquaints students with the processes by which research generates information and theoretical advances in Kinesiology and also explores specific recent developments in the field. Prerequisite: KN 326, MA 140 or PY 151.

KN 420 Curriculum Development for Elementary and Secondary Physical Education Methods (3)

Instructional methods, resources and curriculum development aimed at preparing future physical education teachers with the knowledge to create developmentally appropriate activities for preschool through high school age students, utilizing practical site-based experiences in planning, teaching and evaluating physical education programs. Prerequisites: KN 311, plus any e of the following: KN 341, KN 342, KN 343, KN 344, KN 345, and formal admission to the Professional Teacher Education Program or consent of instructor.

KN 430 Senior Seminar Physical Education (1)

This is a capstone course in which teacher candidates will review and update their Physical Education philosophy, complete their Physical Education portfolio, further develop their professional goals and plan for professional development; create their advocacy plan, and complete a practical experience related to the major. Prerequisites: Senior standing and formal acceptance into the Professional Teacher Education Program; or consent of instructor.

KN 491 Field Experience 2 in Exercise and Rehabilitation Science (3-6)

This course is designed for students interested in gaining practical experience in settings related to exercise and rehabilitation science, such as athletic training, physical therapy, clinical exercise physiology, fitness/wellness, sports and conditioning or research settings. Prerequisites: KN 291, KN 357 and KN 410; current First Aid and CPR certifications must be on file prior to the start of the field experience.

KN 497 Internship: Sport Management (6-12)

This course provides an off-campus experience in the field of sport management, in areas such as facility operations, game day promotions and advertising, ticket sales, and/or front-office administration. Each credit hour of internship equates to 50 contact hours at the internship site. This internship is for a minimum of 300 hours and a maximum of 600 hours. Prerequisite: All Major and Activity Requirements completed; current First Aid and CPR certifications must be on file prior to start of internship.

KN 498 Internship: Health and Fitness Promotion (3-6)

This course provides an off-campus experience in health promotion and/or fitness settings such as public health, corporate wellness, personal training, strength and conditioning, and recreation administration. Each credit hour of internship equates to 50 contact hours at the internship site. This internship is for a minimum of 150 hours and a maximum of 300 hours. Prerequisite: All Major and Activity Requirements completed; current First Aid and CPR certifications must be on file prior to start of internship.

Law (LW)

Leadership (LE)

LE 100 Exploring the Concept of Leadership (3)

A survey of leadership theories and introduction to the academic study of leadership using contexts of the leadership process and case studies; requires identifying personal leadership potential, articulating a personalized leadership theory, and applying leadership concepts in a Campus Action Project. Prerequisite: None.

(General Ed Social Science. Critical and Creative Thinking.)

LE 125 Foundations of Leadership in Society (1-3)

This course will expose students to a variety of concepts, theories and skills relevant to contemporary leadership thought. Students will be challenged to consider their personal conceptions and philosophy of leadership. Students will examine leadership within particular contexts such as creating change, ethical leadership, leadership and management, and historical leadership thought and leaders. Prerequisite: None.

LE 200 Ethical Responsibilities of Leadership (3)

A survey of the fundamental ethical responsibilities of leadership; requires examination of obstacles to and opportunities for ethical leadership, an understanding of the cultural contexts of leadership and an articulation of a personal ethics statement as a foundation for applied ethics in the leadership process. Prerequisite: LE 100 or appropriate HN 202 or consent.

LE 300 Leadership Skills Development (3)

Students focus on developing individual and interpersonal leadership skills, teamwork and collaboration skills, and an understanding that leadership is more than the exercise of power; techniques for embracing and leading change are practiced in a semester-long change project. Prerequisite: LE 200 or appropriate HN 201 section or consent.

LE 301 Leadership Skills Integration (0-3)

Students will integrate their learning from a leadership skills course from another department with the curriculum of the Leadership Institute. Outcomes include development of individual and interpersonal leadership skills, teamwork and collaboration skills, and an understanding that leadership is more than the exercise of power; techniques for embracing and leading change are practiced in a semester-long change project. Prerequisite: LE 200 or appropriate HN 201 section or consent; Corequisite: NU 450 or another departmental leadership skills course at a 300 level or higher.

LE 320 Leadership Campus Experience I (0-1)

Students will review a contemporary leadership theory as a framework with which to integrate their learning from a campus leadership position with an understanding that leadership is more than just a position. Students will begin to think critically about creating change in association with a campus leadership experience. Prerequisite: Consent of instructor or junior standing.

LE 321 Leadership Campus Experience II (0-1)

Students will participate in a campus leadership position and reflect on the experience to develop a greater awareness of self and how they contribute to the process of leadership. Prerequisite: Consent of instructor or junior standing and completion of LE 320.

LE 322 Leadership Campus Experience III (0-1)

Students will reflect on leading change through implementation of a change project. Within this course, students will reflect on their learning from their student involvement within the framework of leadership theories. Prerequisite: Consent of instructor or junior standing and completion of LE 320 and LE 321.

LE 350 Leadership Practicum Experience (3)

Students pursuing the Leadership Studies Certificate will practice a "change agent" leadership role by implementing and evaluating a change process, and produce a detailed record of the experience suitable for archiving. Prerequisite: LE 300 or consent of instructor.

LE 375 Gender and Leadership (3)

An examination of an analytic framework for understanding the role that gender plays in defining and determining access to leadership and power. Contains an analysis of the myths, challenges, and opportunities that accompany the issue of gender through an exploration of gender and leadership both conceptually and practically. Prerequisite: Consent of instructor or junior standing.

LE 398 Special Projects - Leadership (0-3)

Independent study or project in leadership. The same project may be repeated up to 3 credits. Prerequisite: Consent of instructor.

LE 399 Special Topics in Leadership (0-3)

Special topics in leadership. May be repeated for different topics. See course schedule for current offerings. Prerequisite: Consent of instructor or junior standing.

LE 400 Leadership Internship (3)

Students will practice a "change agent" leadership role by implementing and evaluating an evidence-based change process, and produce a detailed record of the experience suitable for archiving. Prerequisite: LE 300 and consent of instructor.

LE 401 Leadership Internship Integration (0-3)

Students integrate their learning from an internship from another department with the curriculum of the Leadership Institute. Students must practice a "change agent" leadership role within this internship. Within this course, students will reflect on their learning from the internship within the framework of the Leadership Institute curriculum. Prerequisite: Consent of Instructor. Corequisite: NU 462 or another departmental leadership internship course.

LE 601 Self and Systems Leadership (3)

This course explores the ways in which one interacts with given systems to provide effective leadership, and the various elements of both self and system that must be considered in this process. This requires an ability to critically examine oneself as a leader, including analysis of one's own core values and adherence to these values. Students will seek and critically examine new knowledge to improve one's leadership practice and consider the ramifications of leadership actions in systems of various scale. Students will develop a personal leadership plan and consider how this plan will affect their community of interest.

LE 620 Leadership/Resource Stewardship (3)

This course explores a leader's responsibility as a steward of an organization's human, financial and technological resources. Students will explore how the concepts of stewardship can be applied to the organization through responsible planning and management of resources. Students will develop an understanding of how to align resource plans with the organization's strategic goals and direction. The course will focus on key concepts and current readings in strategic budgeting, strategic organizational management structures, and strategic performance measurement. Students will critically evaluate organizational practices in these areas, consider alternatives and potential enhancements, and develop plans to align with and ensure achievement of the organization's strategic goals. Prerequisite: LE 601 or instructor permission.

LE 630 Organization Improvement & Innovation (3)

This course will focus on the role of leaders in the realization of organizational mission and vision through assessment, utilizing a continuous improvement framework, and innovation. Organizational assessment is required to understand critical problems to solve and opportunities to explore. Continuous improvement, utilizing Lean Six Sigma, provides a model for problem solving and opportunity development. If organizational assessment and a process improvement framework is supported, then innovation is more likely to occur. This requires the leader to work collaboratively with various stakeholders, and to manage the change process to ensure sustained outcomes. Prerequisite: LE 601 or instructor permission.

LE 640 Public Policy & Global Leadership (3)

Diversity in the organization is the new norm, and leaders must develop a high level of cultural intelligence in order to balance micro- to macro-system priorities and competing perspectives. This course will emphasize leadership of local/global organizations within environments of escalating complexity and change. This course builds upon previous leadership courses to analyze, implement and evaluate effective leadership strategies within local/global settings, with an emphasis on policy development, ethics, and social advocacy. Prerequisite: LE 601, LE 620, and LE 630 or instructor permission.

LE 695 Special Topics in Leadership (0-3)

Special topics in leadership. May be repeated for different topics. See course schedule for current offerings. Prerequisite: Consent of instructor.

LE 698 Communication/Leadership Capstone Experience (1-3)

The capstone experience is the culminating experience of the master's degree program and is taken in the final semester. It requires the identification of an organizational or community problem or opportunity and the development and implementation of a project that defines, measures, analyzes, and improves the problem or opportunity. Prerequisite: 18 hours of graduate communication curriculum and 9 hours of graduate leadership curriculum.

LE 777 Continuous Enrollment (1-3)

This course is to allow additional time to complete Capstone, Thesis, or Practicum Requirements. Prerequisite: Instructor permission.

Legal Office Professional (LOP)

LOP 130 Legal Terminology (4)

Students will attain knowledge and understanding of terms commonly used in the legal profession. Students will learn to define the terms, correctly pronounce them, and use them in legal context. Keyboard practice is used to solidify definitions and correct spelling of legal terms and terminology will be used in correspondence and legal pleadings.

LOP 140 Software for Legal Assistants (4)

An essential skill in legal support role is the understanding and proficiency in computer applications commonly used in the legal environment. In this course, the student will become proficient in programs, through instruction and hands on activities. These programs include word processing, spreadsheets and legal billing and timekeeping. Students will also learn applications and procedures for case management, docket control, legal research and litigation support.

LOP 150 Legal Projects (4)

The law office environment is specialized and different from the traditional business world. Legal Office Projects is designed to present an overview of the structure and functions of the law office and provide the student with an opportunity to learn about different specialty areas of the law and to prepare real life documents and pleadings required in this profession. The course is focused on activities necessary to become a valued member of a legal team.

LOP 160 Foundations of Law&Legal Ethic (4)

This course explores various types and classifications of law through explanation, readings and case analysis. An important part of the study of law are the ethics of the legal environment. Lawyers expect their assistants to understand different practice areas. In addition, it is imperative in any legal environment to understand, practice and follow the professional ethics in the practice of law.

LOP 170 Law Office Management (4)

This course is designed to familiarize the student with various management functions essential and specific to the practice of law. Students will learn client management, docketing and scheduling, legal billing and timekeeping and resource management. Additionally, students will learn leadership, personnel management and total quality management.

LOP 180 Legal Admin Assistant Capstone (1)

In this capstone course, students will demonstrate the skills learned throughout the program either by working in a law firm or government office or by completing a major research project.

LOP 240 Legal Terminology (5)

Students will attain knowledge and understanding of terms commonly used in the legal profession. Students will learn to define the terms, correctly pronounce them, and use them in legal context. Keyboard practice is used to solidify definitions and correct spelling of legal terms and terminology will be used in correspondence and legal pleadings.

LOP 250 Legal Office Projects (3)

The law office environment is somewhat different from the traditional business world. Legal Office Procedures is designed to present an overview of the structure and functions of the law office and provide the student with an opportunity to learn about different specialty areas of the law and to prepare real life documents and pleadings required in this profession.

LOP 260 Legal Transcription (4)

Legal Transcription teaches students to transcribe from sound common legal pleadings, correspondence, and recorded sessions to reinforce the correct pronunciation of legal terminology. Transcribed dictation is evaluated with written copy to increase rate typing speed in transcription and produce error free documents from sound.

Legal Studies (LG)

LG 101 Introduction to Legal Practice (3)

Introduction to basic legal terminology and legal principles, as well as hands on experience with computer technology applicable to law office management, document production, scheduling, research, litigation support, and ethics. Prerequisite: None.

LG 200 Introduction to Law (3)

Introduction to the basic skills of legal analysis and case briefing, understanding the state and federal legal systems, and judicial decision-making. The course will also include a survey of torts, contracts, criminal law, and property law. Prerequisite: None.

LG 205 Corporate Law (3)

A study of business organizations and the tasks a paralegal would be required to perform in setting up and maintaining those organizations. Topics covered include: law of agency, partnership, limited partnership and corporations. Prerequisite: LG 101 or LG 200 or consent.

LG 210 Family Law (3)

Family law issues are the focus of this course, including the law of divorce, annulment and separate maintenance actions. The gathering of information and preparation of pleadings are undertaken. Adoption and custody procedures are reviewed. Prerequisite: LG 101 or LG 200 or consent.

LG 215 Property Law (3)

Procedural and substantive principles of real and personal property laws. Preparation of documents for common real estate transactions, including deeds, contracts, and mortgages. Personal property topics will include bailments, possession, accession and gifts. Prerequisite: LG 101 or LG 200 or consent.

LG 220 Wills & Estate Administration (3)

Involves probating a will or administering an estate; assembling information necessary for collection and evaluating assets; maintaining proper records for accounting purposes; preparing pleadings for initial petition and appointment of an administrator and executor; sale, mortgage, and lease of assets; and preparing estate tax returns, wills and trusts. Intestate succession and tax implications are studied. Prerequisite: LG 101 or LG 200 or consent.

LG 240 Constitutional Law (3)

This course explores the basic structure of the Constitution, the powers it grants to the federal government, and the basic rights and protections it provides to individuals. Students will analyze and think critically about United States Supreme Court opinions on such topics as rights against discrimination, privacy rights, rights to the freedom of speech and religion, due process rights, and the right to bear arms. Prerequisite: None.

LG 250 Legal Research I (3)

Introduction to primary and secondary authorities, including court decisions, legislation, annotations, digests, legal periodicals and specialty texts and reports. Practical research projects, including legal writing. Prerequisite: LG 101 or LG 200 or consent.

LG 300 Legal Writing (3)

The various forms of legal writing are the focus of this course, including letters, memoranda, motions, and briefs. Students will learn further research techniques, including an introduction to computerized legal research. Practical writing projects are included. Prerequisite: LG 250 or consent.

LG 305 Litigation I (3)

Analysis of the steps and procedures in preparing for litigation. Course topics include a detailed study of the preparation and use of discovery devices, the drafting of pleadings and motions, and a detailed analysis of the steps involved in trial preparation and procedure. Prerequisite: LG 101 or LG 200 or consent.

LG 310 Interviewing & Investigation (3)

Study of basic interviewing techniques in various legal settings. Mock interviews of clients and witnesses. Various styles of interviewing covered, as well as question-asking and listening techniques. Factual and legal investigation theories, plans and techniques will be used. Ethical concerns related to interviewing witnesses and clients covered. Rules of evidence are reviewed. Prerequisite: LG 101 or LG 200 or consent.

LG 315 Legal Research II (3)

This course is designed to teach students further research techniques, including the research of legislative history and administrative law, both through library research and computer-assisted legal research. Prerequisite: LG 250 or consent.

LG 320 Elder Law (3)

Introduction to laws that affect the elderly population. Study of course topics will include estate planning, guardianship and conservatorship, patients' rights, entitlement programs, managed care, social security, Medicare, Medicaid, and elder abuse. Prerequisite: LG 101 or LG 200 or consent.

LG 325 Personal Injury Law (3)

Introduction to basic concepts in tort law, including elements of various tort claims, defenses, privileges, and immunities. Prerequisite: LG 101 or LG 200 or consent.

LG 330 Administrative Law for Paralegals (3)

An introduction to administrative law concepts. Topics covered in the course will include, but not be limited to: delegation of authority to administrative agencies; limitations on agencies' authority; due process of law in the administrative arena; informal versus formal agency actions; rule-making; FOIA; the Privacy Act; open meetings; adjudicative functions of agencies; Administrative Procedures Act; and judicial review. Practical application of the concepts studied will occur through the completion of exercises and drafting assignments. Prerequisite: LG 101 or LG 200 or consent.

LG 340 Law and the Cinema (3)

This course uses movies in the study of law and legal principles. By watching law-based films and reading related journal articles, we will discuss and analyze rules of civil and criminal procedure, rules of evidence, and rules of ethics. In addition, the broader legal and moral issues raised by the films will be discussed and studied. This course will also allow students to develop a heightened awareness of how depictions in popular culture can affect a society's understanding and discourse concerning issues surrounding the law. Prerequisite: None.

LG 342 Capital Punishment in America (3)

An overview of capital punishment in America with specific application to Kansas. The course covers different philosophical and religious positions on the death penalty; pro and con arguments related to retribution, deterrence, and incapacitation; the relative costs of the death penalty vs. permanent incarceration; innocent people on death row, discrimination, and arbitrariness in the application of the death penalty; and the role of judges, prosecutors, defense attorneys, juries, and witnesses in death penalty cases. Prerequisite: LG 101 or LG 200 or CJ 100 or consent.

LG 345 Criminal Law (3)

Introduction to substantive criminal law and criminal procedure for the paralegal. Topics covered include elements of crimes against persons and property; burden of proof; defenses and constitutional protection; comparison of Kansas law with common law, federal law, and selected other states. Prerequisite: LG 101 or LG 200 or CJ 100 or consent.

LG 350 Professional Ethics (3)

An overview of the Kansas Rules of Professional Conduct, which govern the practice of law in Kansas. Subjects covered include: ethics in the law office, unauthorized practice of law, advertising of legal services, contact with parties who are represented by counsel, impaired, lawyers, competency, professionalism, and fees for paralegal work. Complaints, disciplinary proceedings, and possible sanctions are covered. The role of the Kansas Supreme Court and the duties of attorneys under the rules are studied. Prerequisite: LG 101 or LG 200 or consent.

LG 355 Introduction to Contracts (3)

Overview of contract law in relation to the formation of contracts, the Statute of Frauds, third-party beneficiary contracts, assignment of rights and delegation of duties, liability for breach of contract, termination, discharge and other related issues. Practical drafting projects are included. Prerequisite: LG 101 or LG 200 or consent.

LG 360 Independent Study (1-3)

Legal Studies students pursuing the Bachelor of Legal Studies degree may enroll in an independent research project if approved by faculty in consultation with the Department Chair. Independent Study courses must meet equivalencies to Federal definition of a credit hour. Prerequisites: 6 hours of LG course work.

LG 390 Special Topics/Legal Asst (1-3)

Selected topics which vary from semester to semester. Announced in advance. Prerequisite: Specified on each topic.

LG 399 International Travel Experience in Legal Studies (3)

This course allows students from Washburn University to work collaboratively with the students from a partnering university outside the United States. Students will participate in a comparative analysis of international differences in law, the legal system, and litigation practices; and develop a better understanding of the cross-cultural significance of diversity in the legal system. Prerequisite: Consent.

LG 405 Litigation II (3)

Analysis of the steps involved in criminal procedure. Constitutional principles and limitations will be studied. Appropriate pleadings will be drafted relating to the various stages of a criminal trial. Advanced civil litigation topics will also be studied, such as class actions, complex litigation, and various settlement devices, including alternative dispute resolution modalities. Students will research and complete a comparative study of the criminal and civil litigation systems. Prerequisite: LG 305.

LG 410 Bankruptcy & Collections (3)

Acquaints students with the legal foundations for methods commonly used to collect delinquent accounts, as well as the terminology of bankruptcy practice, and the statutory framework of and proceedings under, the Bankruptcy Act. Prerequisite: LG 101 or LG 200, and LG 250 or consent

LG 450 Internship (2-3)

Special placement of a student in a law firm, agency, or other legal setting using paralegals. Specific learning objectives established for each placement. Internship consists of a minimum of 160 clock-hours of experience under the supervision of a practicing attorney or paralegal and university faculty, performing tasks appropriate to a paralegal in a professional setting. Pass/Fail only. This internship requires summative reflection, serving as a culminating experience for Bachelor's degree students. Prerequisite: Students must apply with the program director and be given consent to enroll.

LG 495 Legal Studies BLS Capstone (3)

Students who have completed all of their major course work (or who are concurrently enrolled in their final semester and completing their major course work) may enroll in the capstone course with the consent of the program director. Students will complete a self-assessment by completion of a portfolio, using the core competencies for the profession to determine if remedial work needs to be done in any area before graduation. In addition, students may participate in resume-writing, job interviewing skills and networking. Mock interviews may be scheduled for each student. Students will attend two different paralegal organization meetings and two court sessions. Report writing will be included. Ethics will be emphasized by the use of hypothetical situations which will be analyzed and discussed. Students must participate in at least one pro bono activity (i.e., serve as a witness or juror in mock trial or client counseling competitions at the law school or high schools; assist at the Washburn University Law Clinic; assist a not-for-profit organization in the provision of legal services and assistance to low-income individuals and/or children; or, any other approved volunteer effort). This Capstone requires summative reflection, serving as a culminating experience for Bachelor's degree students. Prerequisite: Consent

Liberal Studies (LS)

LS 600 Introduction to Graduate Research Liberal Studies (3)

An introduction to the process, method, and style of graduate research in the humanities, natural sciences, and social sciences. Prerequisite: Acceptance into the MLS program or instructor consent.

LS 601 Interdisciplinary Seminar in Humanities (3)

A team-taught seminar on a special topic in the humanities as it relates to either the social or natural sciences; the course will be cross-listed with either LS 602 or LS 603. Variable, but interdisciplinary subject matter. A student may repeat the course when it is offered on a different topic. Prerequisites: Acceptance into the MLS program or consent of the instructors.

LS 602 Interdisciplinary Seminar in the Social Sciences (3)

A team-taught seminar on a special topic in the social sciences as it relates to either the humanities or the natural sciences; the course will be cross-listed with either LS 601 or LS 603. Variable, but interdisciplinary subject matter. A student may repeat the course when it is offered on a different topic. Prerequisites: Acceptance into the MLS program or consent of the instructors.

LS 603 Interdisciplinary Seminar in the Natural Sciences (3)

Team-taught seminar on a special topic in the natural sciences as it relates to either the humanities or the social sciences; the course will be cross-listed with either LS 601 or LS 602. Variable, but interdisciplinary subject matter. A student may repeat the course when it is offered on a different topic. Prerequisites: Acceptance into the MLS program or consent of the instructors.

LS 604 Interdisciplinary Seminar in Creative and Performing Arts (3)

A team-taught seminar on a special topic in creative and performing arts as it relates to the humanities, social sciences, or natural sciences; the course will be cross-listed with LS 601, LS 602, or LS 603. Variable, but interdisciplinary subject matter. A student may repeat the course when it is offered on a different topic. Prerequisites: Acceptance into the MLS program or consent of instructors.

LS 690 Special Topics (1-6)

With the consent of the advisory committee, students may arrange with a member of the graduate faculty a special topics course in Liberal Studies. Prerequisites: Admission to the MLS program or consent of instructor.

LS 699 Capstone Experience (3)

Students apprentice themselves to one faculty member to pursue one theme developed in the core interdisciplinary program or individualized study program. The expectation is a research paper of 30 pages or an approved equivalent. Students are strongly encouraged to develop creative alternatives. Regardless of the form the project takes, it must in some significant way, reflect both an in-depth understanding of a specific subject matter and the interdisciplinary nature of learning. Papers or projects are defended before a three- to five-person committee consisting of the advisor and 2-4 other faculty members chosen by the student and approved by the advisor. The capstone course provides the final opportunity to evaluate the student's mastery of the liberal studies curriculum. Prerequisites: Admission into the MLS program and approval of the course instructor.

LS 799 Liberal Studies Capstone Experience (3)

Students will apprentice themselves to one faculty member to pursue a theme developed in the core interdisciplinary program or individualized study program. The expectation is a research paper of thirty pages or an approved equivalent. Students will be strongly encouraged to develop creative alternatives. Regardless of the form the project takes, it must in some significant way reflect both an in-depth understanding of a specific subject matter and the interdisciplinary nature of learning. Papers or projects are defended before a three- to five-person committee consisting of the advisor and two to four other faculty members chosen by the student and approved by the advisor and the MLS director. The capstone course provides the final opportunity to evaluate the student's mastery of the liberal studies curriculum. The final project should reflect the student's appreciation of the interdisciplinary nature of learning.

Machine/Tool Technology (MTT)

MTT 106 Safety (OSHA 10) (1)

Through a variety of classroom and/or lab learning and assessment activities, students in this course will explain job/site safety and precautions for job/site hazards; determine the uses of personal protective equipment (PPE); identify the safety equipment and procedures related to safe work practices and environment; identify fire prevention and protection techniques; explore Hazardous Communications (HazCom) including Material Safety Data Sheets (MSDS).

MTT 112 Print Reading (3)

Students will learn to identify basic lines, views and abbreviations used in blueprints, determine dimensions of features of simple parts, sketch simple parts with dimensional measurements, determine dimensions of multi-feather part, interpret GDT symbols, frame, and datums.

MTT 114 Machining I (3)

Student will learn to conduct job hazard analysis for conventional mills and lathes, develop math skill for machine tool operation, perform preventive maintenance and housekeeping on conventional mills and lathes, select work holding devices for mills, lathes and other machine tools, calculate feed and speeds, remove material using milling and turning processes, align milling head, use a vertical mill to center drill, drill and ream holes, change tools and tool holders on milling machines, and maintain saws and grinders.

MTT 115 Print Reading/Math II (1)

Students learn to perform basic trigonometric functions, and perform other procedures such as I.D. boring and facing operations, planning a sequence for machining operations, aligning work pieces, use work holding devices, jigs and fixtures, performing threading operations on lathes, machining keyways on a vertical mill, inspecting and dressing grinding wheels, performing O.D. & I.D. threading operations, performing O.D. & I.D. tapering operations, machining parts using milling cutters and milling machines, and tapping holes on a vertical mill.

MTT 116 Machine Tool Processes (1)

Students will learn to conduct a job hazard analysis for a machine tool group, analyze blueprints to layout parts and materials, select hand tools and common machine shop mechanical hardware for specific applications, prescribe cutting tools for assigned operations, calculate stock size to minimize drop, machine parts to specification outlined in machine handbooks, summarize preparations for machining operations, and apply precautions to minimize hazards for work with lathes, mills, drills, and grinders.

MTT 118 Lathe/Mill/Grind I (4)

Instruction will be given in the form of lectures, hand-outs, video tapes, shop demonstrations, shop assignment and text book assignments. Students will perform required set-ups and operations of lathes, milling machines, and grinders in a timely manner. Students are required to practice all shop safety rules. Calculate feed and speeds using the math formulas taught. Math will also be used to calculate hole pattern layouts, gear cutting, threading information, inspecting and quality control, and programming. Students will be required to perform machine operations to the satisfaction of the instructor. Students may be required to work in two or three person teams, but all students will be given the opportunity to demonstrate their competency level and ability by means of written test, verbal communications, and demonstrating hands-on.

MTT 123 Machining II (3)

Students learn to perform basic trigonometric functions and perform other procedures such as I.D. boring and facing operations, planning a sequence for machining operations, aligning work pieces, use work holding devices, jigs and fixtures, performing threading operation on lathes, machining key ways on a vertical mill, inspection and dressing grinding wheels, performing O.D. and I.D. threading operations, performing O.D. and I.D. tapering operations, machining parts using milling cutters and milling machines.

MTT 124 Lathe/Mill/Grind II (5)

Instruction will be given in the form of lectures, hands-on video tapes, shop demonstrations, shop assignments, and text book assignments. Students will perform required set-ups and operations of lathes, milling machines, and grinders in a timely manner. Students are required to practice all shop safety rules. Calculate feed and speeds using the math formulas taught. Math will also be used to calculate hole pattern layouts, gear cutting, threading information, inspecting and quality control, and programming. Students will be required to perform machine operations to satisfaction of the instruction. Student may be required to work in two or three person teams, but all students will be given the opportunity to demonstrate their competency level and ability by means of written tests, verbal communications, and demonstrating hands-on abilities.

MTT 131 Quality Control & Inspection (1)

Students are introduced to the science of dimensional metrology and its applications to ensure form and function of machined parts and assemblies using semi-precision and precision measuring instruments.

MTT 151 Workplace Ethics (2)

Students study human relations and professional development that exists in today's rapidly changing world so that they become better prepared for living and working in a complex society. Topics include human relations, job acquisition, job retention, job advancement, and professional image skills.

MTT 210 Print Reading/Math III (1)

Student learn to perform basic trigonometric functions, and perform other procedures such as I.D. boring and facing operations, planning a sequence for machining operations, aligning work pieces, use work holding devices, jigs and fixtures, performing threading operations on lathes, machining keyways on a vertical mill, inspecting and dressing grinding wheels, performing O.D. & I.D. threading operations, performing O.D. & I.D. tapering operations, machining parts using milling cutters and milling machines, and tapping holes on a vertical mill.

MTT 218 Metallurgy (1)

Students learn the metallurgical terms and definitions in an effort to understand the behavior and service of metals in industry. Characteristics during heating, cooling, shaping, forming, and the stress related to their mechanical properties are covered, as well as the theory behind alloys, heat treatment processes and wear resistance.

MTT 219 Lathe/Mill/Grind III (6)

Instruction will be given in the form of lectures, hands-on video tapes, shop demonstrations, shop assignments, and text book assignments. Students will perform required set-ups and operations of lathes, milling machines, and grinders in a timely manner. Students are required to practice all shop safety rules. Calculate feed and speeds using the math formulas taught. Math will also be used to calculate hole pattern layouts, gear cutting, threading information, inspecting and quality control, and programming. Students will be required to perform machine operations to satisfaction of the instruction. Student may be required to work in two or three person teams, but all students will be given the opportunity to demonstrate their competency level and ability by means of written tests, verbal communications, and demonstrating hands-on abilities.

MTT 221 Bench Work (1)

Students will be provided the opportunity to learn and practice bench work skills such as filing, drilling, tapping, deburring and layout for projects. They will gain valuable practical experience in the use of various hand tools by producing basic bench work projects. Topics will include safety, print reading, job planning, and quality control.

MTT 232 Bench/Saw/Drill (3)

Students will learn to conduct job hazard analysis for conventional mills and lathes, develop math skills for machine tool operations, perform preventive maintenance and housekeeping on conventional mills and lathes, select work holding devices for mills, lathes and other machine tools, calculate feeds and speeds, remove material using milling and turning processes, align milling head, use a vertical mill to center drill, drill and ream holes, change tools and tool holders on milling machines, and maintain saws and grinders.

MTT 238 Print Reading/Math IV (2)

Students learn to perform basic trigonometric functions, and perform other procedures such as I.D. boring and facing operations, planning a sequence for machining operations, aligning work pieces, use work holding devices, jigs and fixtures, performing threading operations on lathes, machining keyways on a vertical mill, inspecting and dressing grinding wheels, performing O.D. & I.D. threading operations, performing O.D. & I.D. tapering operations, machining parts using milling cutters and milling machines, and tapping holes on a vertical mill.

MTT 241 CNC Operations (3)

Students will become acquainted with the history of Numerical Control (NC) and Computer Numerical Control (CNC) machines and will be introduced to a CNC machine used in the precision machining trades. They will gain practical experience in the application of "G" codes and "M" codes, writing CNC machine programs, and machine setup and operation.

MTT 244 Lathe/Mill/Grind IV (6)

Instruction will be given in the form of lectures, hands-on video tapes, shop demonstrations, shop assignments, and text book assignments. Students will perform required set-ups and operations of lathes, milling machines, and grinders in a timely manner. Students are required to practice all shop safety rules. Calculate feed and speeds using the math formulas taught. Math will also be used to calculate hole pattern layouts, gear cutting, threading information, inspecting and quality control, and programming. Students will be required to perform machine operations to satisfaction of the instruction. Student may be required to work in two or three person teams, but all students will be given the opportunity to demonstrate their competency level and ability by means of written tests, verbal communications, and demonstrating hands-on abilities.

MTT 250 Workplace Skills II (1)

This course is the final preparation for the exit assessment by using Key Train software for Applied Math, Reading for Information, and Locating Information. A student will be required to attend remaining seminars that were not attended in Workplace Skills I through the Career Resource Center.

Mass Media (MM)

MM 100 Introduction to Mass Media (3)

The subject of this course is mass media. It is designed to acquaint students with newspapers, magazines, books, radio, recordings, television, films, advertising, public relations, and the interactive media of computers and information technology. Prerequisite: None.

(General Ed Humanities. Information Literacy and Tech.)

MM 128 The Impact of The Walt Disney Company on Society (3)

This course will explore the impact that the Walt Disney company has had on society in both the domestic and international cultural spaces. Topics explored include the company's influence on society and culture through: 1) mass media, such as film, television, radio, publishing, literature, online, and gaming; 2) business, such as tourism, merchandising, licensing, franchising, marketing, and promotions; 3) innovation, such as technology, creative development, engineering, and architecture; 4) history, such as historical, gender, race, and colonial representation. Prerequisites: None.

MM 155 Sports and the Media (3)

This course is designed as a foundational course and, as such, examines the interrelationship between the media and sport. Emphasis is placed on how media tell the story of sport. Students critically examine how media shape sports news, images, events, identities, and the cultural values of fans regarding sport. Also, students become acquainted with a diverse array of media and media industries (i.e., newspapers, magazines, books, radio, recordings, television, film, gaming, advertising, public relations, and digital media) in the context of the sport industry in order to understand the role these media play in transmitting sport as a cultural phenomenon. Prerequisites: None

(General Ed Humanities. Information Literacy and Tech.)

MM 199 Professional Media Applications (3)

This class implements technology processes and the construction of messages to be used in commercial, social and mobile media while creating an understanding of the significance and application of basic media terminology. Prerequisite: None.

MM 202 Professional Media Writing" (3)

The study and practice of fundamentals of media writing for journalism, public relations and advertising. Prerequisites: MM 100 and MM 199 or consent.

MM 222 Screenwriting (3)

The focus in this course is to develop knowledge and skills relating to visualization of cinematic story elements, and writing a narrative film script. Topics include: formatting, structure, character development, conflict, dialogue, and other script elements. Prerequisites: MM 100 and MM 199 or consent.

MM 300 Media Law, Ethics & Diversity (3)

This course takes an in-depth look at the First Amendment, ethics, and diversity from a media practitioner's standpoint. Students will think critically about the freedoms of speech in the United States, privacy in a digital age, and common legal protections in the workplace. The course will also include an examination of professional ethics in mass media and how those may be applied in case studies. Furthermore, students will also examine the societal representations of gender, race, and disability in media and how those images influence and reinforce cultural stereotypes. Prerequisites: MM 100 or consent.

MM 301 Mass Media & Cinema (3)

Investigation into how the cinema portrays the media of radio, television, film and the press. Discussion of various types of film analysis and criticism, including production analysis, sociological, genre, and ideological criticism of film form and content. Prerequisites: MM 100 or consent.

MM 303 Video Game Storytelling (3)

This course empowers students to learn the professional side of video games, and understand the central role of storytelling and character development. In addition to storytelling basics, students are exposed to the vital history and design elements in the industry. Professionals from all sides of the video game industry interact directly with students, providing them with first-hand insights. This course provides a foundation for pursuing a career in the video game industry from the producer, designer, executive, journalistic, and public relations standpoints.

Prerequisites: None

MM 308 Intro Film & Video Techniques (3)**MM 311 TV Studio Production (3)**

Practice of the production roles and technical operations required to work collaboratively in a multi-camera TV studio environment. This course will provide students the opportunity to live-direct and work as part of a TV studio production crew in a variety of roles to produce a series of studio and field productions. Prerequisite: MM202 OR MM222 or consent

MM 312 Cinematography (3)

This course focuses on the skills and theory of the camera department in the modern professional film and video environment. Students learn how to operate as the cinematographer/director of photography, gaffer, 1st and 2nd assistant camera, and grip. Through lecture students learn the theory and technique of visual storytelling as well as gain hands-on practice in the studio. Prerequisite: MM100, MM 199 or consent.

MM 319 Public Relations I (3)

This class surveys and analyzes organizational practices in communicating and building relationships with audiences. Prerequisites: MM 100, MM 199, and MM 202 or consent.

MM 321 Advanced Professional Media Applications (3)

This course introduces students to a practice-based approach to visual communication where fundamental principles of typography, color and design are introduced alongside a variety of projects that expose students to industry-standard applications and software. Prerequisites: MM100 and MM 199 or consent of instructor.

MM 326 Student Media Practicum (1)**MM 328 The Impact of The Walt Disney Company on Society (3)**

This course will explore the impact that the Walt Disney company has had on society in both the domestic and international cultural spaces. Topics explored include the company's influence on society and culture through: 1) mass media, such as film, television, radio, publishing, literature, online, and gaming; 2) business, such as tourism, merchandising, licensing, franchising, marketing, and promotions; 3) innovation, such as technology, creative development, engineering, and architecture; 4) history, such as historical, gender, race, and colonial representation. Prerequisites: EN101.

MM 350 Film Editing and Theory (3)

This course examines the craft and art of editing in the digital age and explores film history and theory as related to the editing process. Students engage in editing assignments to apply continuity and non-linear techniques. Prerequisites: MM100, MM199 or consent

MM 351 Data Literacy & Audience Research (3)

To make effective strategic decisions, advertising and public relations professionals must be informed of trends and changes related to an organization and its competitive environment. Furthermore, advertising and public relations professionals must know how to design and execute research that will inform organizational decision-making and the creative process. Working from the perspective of a brand strategist, students in this course collect, interpret, evaluate, and report research findings. Students are exposed to both qualitative and quantitative research methods for advertising and public relations program management. Emphasis is placed on the research process, sampling techniques, data collection methods, evaluation of data, and report writing. Prerequisite: MM321 or consent. This class is a corequisite to MM352.

MM 352 Advertising and PR Strategies (3)

This course focuses on the fundamentals related to the fields of advertising and public relations, and the larger roles that each discipline plays in an organization's overall integrated brand promotion (IBP) function. Students explore the foundational concepts related to the IBP industry's structure, professional careers in the field of IBP, how organizations segment and target potential and current consumers. Students also develop creative messaging for a variety of media channels, engage in strategic promotional planning, and discover brand building through reputation management and crisis communication techniques. Through this course, students emerge with both a broad understanding of IBP and its place in business and society, as well as a specific understanding of the IBP process. Prerequisites: MM202 and MM321 or consent. MM351 is a corequisite

MM 355 Sports & The Media (3)

Mediated sport is an important facet of modern life. This course will explore the fundamentals of media as related to both collegiate and professional sports. Students will apply strategic thought in the creation of various media related to the sport industry. Prerequisites: EN 101 and MM 199

MM 360 Minorities & The Media (3)

This class is an examination of the portrayal of underrepresented groups in the media, and how these audiences can be reached via media messages. Prerequisite: MM 100 or consent.

MM 372 Film Production (3)

This lab course provides students an opportunity to utilize the skills and theory they've learned from the prerequisite film courses on three high quality film projects as a collaborative trio. Students learn directing, producing and production/post sound skills as well as utilize their editing and cinematography skills with a focus on collaboration. With an emphasis on the professional environment, students acquire skills that allow them to walk onto any set or post-production environment on any type of narrative production. Prerequisites: MM222, MM312, and MM350

MM 375 Murder, Mayhem and Media (3)

This course teaches real-world skills and provides valuable information for students interested in covering crime or courts for media outlets; working in law enforcement or judicial public relations; or telling crime stories through books, movies or TV. The course provides insight into what police officers do, how the criminal justice system works and how the media covers crime, with an emphasis on social media and current events. The class seeks to help enable students to serve as the eyes and ears of their readers and viewers, telling stories in a descriptive manner that helps people hear the sirens and smell the smoke. Prerequisite: MM 202.

MM 393 Special Topics/Mass Media (1-3)

Special subject courses not covered in the department catalog listing. May be repeated when topics vary. Prerequisite: MM 100 or consent.

MM 400 Media Literacy (3)

This class includes a historical and critical overview of seminal theories and research in mass communication. Special emphasis will be placed on the relationship between media and society. Prerequisites: MM 100, MM 199, and EN 300 or consent.

MM 401 Media Analysis & Criticism (3)

This class includes a discussion of various levels of media analysis and criticism, including production analysis, sociological, feminist and ideological criticism of media form and content. There is also an emphasis on news analysis and television criticism. Prerequisites: MM 100 or consent.

MM 403 Advanced Professional Media Writing (3)

This course focuses on writing and information design skills by giving students the opportunity to practice writing mechanics, story editing, interviewing, and design for real-world publications like the Mass Media Alumni Newsletter, the Mass Media Messenger, and the Washburn Review. Students will also learn how to tailor messages to specific audiences and explore the duties of publication editors and managers from an organizational standpoint. Prerequisite: MM202

MM 405 Documentary Filmmaking (3)

Through readings, screenings, and assignments, this course will develop an understanding of the background and methods for producing independent documentary films, and the accompanying issues commonly encountered in this process. Students will develop a documentary project and script treatment on a topic of their choosing. Prerequisites: MM222, MM312, and MM350 or consent.

MM 408 Sports Branding & Promotion (3)

This course surveys the strategies, techniques, and media employed to promote a wide array of sports products available to the American audience. In this course, students explore the fundamentals of branding and promotion as related to both collegiate and professional sports. Topics explored include understanding the landscape of the sports industry, the variety of promotional tactics employed in the field, the role of entertainment related to the sports venue, the role of media in delivering the sports product, and consumer behavior related to the fan experience. Students emerge from the course with a strong understanding of the roles that branding and promotion play in building relationships between sports entities and consumers. Prerequisites: MM321

MM 409 Electronic Journalism (3)

This course is designed to provide students with essential writing and reporting skills for broadcast journalism. Special emphasis will be given to the writing, shooting and editing of television news stories, the process of news discovery, and how to deliver those stories for broadcast, web, and other interactive media. Prerequisites: MM 199.

MM 411 Entrepreneurial Media (3)

The class emphasizes how business principles are utilized to explore entrepreneurial opportunities in media. Students gain insight into how media content and service enterprises are conceived, planned, financed, and managed. The legal, ethical, and social implications of independent digital media ventures are considered. Prerequisites: MM 100 and MM 199 or consent.

MM 414 Advanced Film Production (3)

This advanced lab course functions as a full-fledged production company that works on one high-quality film project. Students select a director and producer duo from the class who then hire out the rest of the class as the DP/cinematographer, editor(s), production sound, post sound, assistant director, costume designer, production designer, and additional positions. The business aspects are analyzed from funding to distribution so students can leave the class with a high-quality project and a deeper understanding of how to work in whatever aspect of the business they chose. Prerequisites: MM372 or consent.

MM 415 Promotions Writing (3)

The course provides a comprehensive overview of various kinds of writing for digital platforms that media professionals produce. Students will practice research and learn how to tailor messages to specific audiences for specific purposes. Prerequisites: MM 100 and MM 202 or consent.

MM 420 Event Planning and Management (3)

This course focuses on event planning and management from a media practitioner's perspective for developing and executing projects such as organizational meetings, fundraising events, parties, team-building activities, ceremonies, and the like. Students will learn about budgeting, selecting event spaces, acquiring permits, planning food and activities, selecting speakers, speech writing, hospitality, managing risk, and developing contingency plans. Students will also be able to help plan and manage real-world events throughout the semester, putting into practice the skills they have learned. Prerequisite: MM321 or consent

MM 422 Editing (3)

Study of principles of correct and appropriate writing and creative expression in design. Prerequisite: MM 321.

MM 425 Creative Strategies In Advertising (3)

Students will learn creative strategy in researching, planning and developing advertising for print, broadcast and web. Special emphasis will be put on developing creative strategies for different target audiences. Prerequisites: MM 100 and MM 202 or consent.

MM 426 Advanced Student Media Practicum (2)

This course provides students with the opportunity to gain hands-on experience by becoming contributing members within Student Media's newsroom at Washburn. Students will assume assistant-level leadership responsibilities and a specific project to manage. Students will oversee a small group of staff members to complete a more in-depth media assignment, developed in consultation with the director of Student Media and a Core leader of the organization while continuing to build skills in writing, reporting, editing, photography, podcasting, videography and graphic design as a result of their contributions to the Washburn Review Newspaper, the Kaw Yearbook, and the Bod Magazine. Prerequisites: MM202 or consent.

MM 431 Creative Media Publications (3)

Students will work with on and off-campus clients to produce, edit, and design communication materials, both print and online, associated with business, industry, and non-profit groups. Students will also write, design, edit, and sell advertising for the department alumni magazine, the Mass Media Messenger. Prerequisite: MM 321.

MM 432 Advanced Advertising and PR Strategies (3)

Building on the foundational concepts studied in MM352, this course explores integrated brand promotion (IBP) through the execution of a complete IBP project with a real-world client. As part of this project students analyze a specific industry, cultivate insights related to the client's targeted consumers, develop objectives to solve the client's issue from an IBP perspective, create messaging for a variety of media channels, put forth a media plan and a means for the client to effectively measure the proposed plan, and pitch the plan to the client. Through this course, students emerge with real-world, practical experience in the field of IBP. Prerequisite: MM352 or consent.

MM 433 Film Festival Management (3)

This course follows the planning and execution of the annual WIFI Film Festival, with students in charge of programming, promotion, fundraising, marketing and logistics. Students experience all aspects of running a large entertainment event in a real-world setting. Prerequisites: MM202 OR MM222 or consent

MM 485 International Media Systems (3)

This class covers and analyzes the development, structure, and functions of media in other nations, and offers an examination of the role of communications in the international arena. Prerequisites: MM 100 and EN 300, or consent.

MM 492 Independent Study (1-3)

Investigates a mass media area of interest not covered in regular courses. Involves producing research or creative projects. Prerequisites: Consent of faculty and chairperson; majors only.

MM 493 Special Topics/Mass Media (1-3)

Special subject course not covered in the department catalog listing. May be repeated when topics vary. Prerequisites: MM 100 or consent.

MM 494 Internship (1-2)

Experience and training in professional setting related to mass media careers. Mass media faculty and the sponsoring organization supervise students. A total of 64 hours of work per credit hour is given to the sponsoring organization during the semester. Usually requires 8-12 hours per week. Prerequisites: consent; second semester junior or senior standing; 24 credit hours completed in the major and 9 hours completed in concentration.

MM 499 Career Development & Digital Portfolio (2)

Students in this class explore career options and make preparations for a transition from academic life to professional careers or graduate school. A significant portion of this class will be devoted to developing and/or improving the credentials needed to land a job in the media field. In particular, this class will provide students with the opportunity to finalize their resume and digital portfolio. Prerequisites: majors only; senior status.

MM 505 The Documentary Film (3)

Readings, screenings, and assignments will develop an understanding of the background and methods for producing independent documentary films, and the accompanying issues commonly encountered in this process. Students will develop a documentary project and script treatment about a socially significant topic of their choosing. Prerequisite: MM 302 or Consent.

MM 514 Digital Filmmaking II (2)

This lab course explores the craft of creating the documentary or narrative film. At an advanced level, students gain theoretical and practical experience in the production of a dramatic narrative or documentary film. Students create original works and fill crew positions as needed. Prerequisite: MM 312 or MM 350 or Consent.

MM 522 Cinematic Storytelling (3)

This course analyzes modern American films with particular attention to storytelling techniques, genre, cinematic rendering and thematic meaning. Films will be examined against the backdrop of their specific historical-socio-political context. Prerequisite: MM 200 or Consent.

MM 532 Digital Cinematography (3)

This course will show students the similarities and differences between film camera systems and electronic camera acquisition, using lecture, demonstration, and example. Students will understand how basic functions and relationships in camera systems and support have similar qualities, but with different consequences relative to the production process. This course will have a central role for student filmmakers in creative storytelling. Prerequisite: MM 200 or MM 302.

MM 600 Mass Media Law (3)

This class will study ethical and legal issues in mass communication contexts. Examines the limitations and responsibilities of communicators. Prerequisites: MM 100 or consent.

MM 601 Mass Media and Cinema (3)

Investigation into how the cinema portrays the media of radio, television, film and the press. Discussion of various types of film analysis and criticism, including production analysis, sociological, genre, and ideological criticism of film form and content. Prerequisites: MM 100 or consent.

MM 605 The Documentary Film (3)

This course will present a study in critical analysis toward the portrayal of social conflicts in documentary films. Through applied activity, the course will also focus on the power and responsibility that documentary filmmakers have in a world where communication is dominated by the moving image media. Prerequisites: MM 302 or consent.

MM 611 Entrepreneurial Media (3)

Basic concept of managing broadcast stations, a study of the various departments within broadcast organizations and how they interrelate, and an overview of the regulatory and technological landscapes that face broadcast managers. Prerequisites: MM 100 or consent.

MM 614 Digital Filmmaking II (3)

This advanced course will focus on continued practical experience in storytelling in both narrative and documentary treatments. Emphasis is on the planning, management and production of materials suitable for the cinema, television or other news media. Students will be directly involved in producing original work. Prerequisites: MM 312 and MM 350 or consent.

MM 622 Cinematic Storytelling (3)

Students will learn to understand the structure and format of the narrative script form. While the principles of visual storytelling, dialog, and general visual communication techniques will be examined, students will learn the skills of script analysis including: writing treatments, synopsis, content outlines and evaluation of a script based on structure, motif, character, theme and marketability. Prerequisites: MM 199 or consent.

MM 651 Mass Media Research (3)

Study of quantitative and qualitative research techniques and of the interpretation and reporting of research findings. Prerequisites: MM 100 or consent.

MM 692 Independent Study (1-3)

Investigates a mass media area of interest not covered in regular courses. Involves producing research or creative projects. Prerequisites: Consent of faculty and chairperson, majors only.

MM 693 Special Topics (3)

Special subject courses not covered in the department catalog listing. May be repeated when topics vary. Prerequisites: MM 100 or consent.

Mathematics (MA)

MA 090 Preparation for Quantitative Reasoning Pathway (3)

Selected topics in pre-algebra, algebra, geometry and other areas designed to prepare students for quantitative reasoning and beyond. Repeatable up to three times. Placement by diagnostic test or math placement exam result, or suitable math ACT score. Not open to students with credit for MA 108 or above. Does not count towards degree credit hour requirements, nor general education requirements.

MA 095 Preparation for College Algebra Pathway (3)

Selected topics in pre-algebra, algebra, geometry and other areas designed to prepare students for college algebra and beyond. Repeatable up to three times. Placement by diagnostic test or math placement exam result, or suitable math ACT score. Not open to students with credit for MA 108 or above. Does not count towards degree credit hour requirements, nor general education requirements.

MA 103 Basic Algebra (3)

A first course in algebra. Signed numbers and operations, integer exponents, linear equations and inequalities, lines, polynomials, factoring, rational expressions, applications involving linear equations. Does not count towards degree credit hour requirements, nor general education requirements. Prerequisite: None.

MA 104 Intermediate Algebra (3)

Operations with polynomial and rational expressions, factoring, equations (linear, absolute value, quadratic, rational, root), inequalities (linear, compound, absolute value), graphing linear and quadratic functions, systems of linear equations, rational exponents and radicals, applications (involving linear, rational, and quadratic equations). This course is for student entering with one year of high school algebra who are preparing for Essential Mathematics or College Algebra. Does not count towards degree credit requirements, nor general education requirements. Students in this course are expected to have algebraic knowledge equivalent to MA 103 or one year of high school or junior high school algebra.

MA 105 Science Success Strategies (2)

Interdisciplinary class may be taken as CH 100. Develops mathematics and science skills fundamental to science majors. Prerequisite: A grade of "C" or better in MA 104 (or equivalent) or an acceptable (as determined by the Mathematics Department) ACT mathematics score or SAT quantitative score or ACCUPLACER math score.

MA 108 College Algebra Preparation (3)

This course is the first of a two-semester College Algebra sequence. Topics covered include: factoring, equations (linear, quadratic, rational, absolute value, root, linear systems), functions (notation, domain), graphing (linear, quadratic, piece-wise), inequalities (linear, compound, absolute value), applications involving linear, quadratic, and rational equations. Does not count towards degree credit requirements, nor general education requirements. Not open to students with credit in MA 112 or MA 116, or any MA-designated course numbered above MA 116. Students in this course are expected to have algebraic knowledge equivalent to MA 103 or one year of high school or junior high school algebra. Prerequisite: None.

MA 112 Contemporary College Mathematics (3)

This course will focus on the mathematical skills and knowledge required for quantitative literacy, so the topics of understanding numerical relationships, financial mathematics, probability, and data analysis and statistics will be addressed. Each academic year the course will adopt a theme such as the political endeavor, the environment, art and culture and will study the topics from the context of the theme. The course will be project-based and to the extent possible the projects will investigate contemporary issues related to the overarching course theme. In addition to demonstrating mastery of the mathematical content, students will be expected to demonstrate an ability to understand how to determine the appropriate representation of quantitative information and to effectively communicate their assumptions and analysis. This course is not intended to prepare students for calculus. Graphics calculator required. Prerequisite: A grade of A or B in MA 090 or a grade of C or better in MA 104 or an ACT mathematics score of at least 22 or an equivalent background as determined by the Mathematics Department, for example, comparable SAT, COMPASS, or ACCUPLACER score.

(General Ed Natural Science. Quan and Sci Reason Lit.)

MA 116 College Algebra (3)

Equations (linear system, polynomial, rational, absolute value, root, exponential, logarithmic), functions (notation, combining, domain, inverse), graphing (linear, quadratic, polynomial, piece-wise, rational, exponential, logarithmic), inequalities (compound, absolute value, polynomial, rational), logarithmic expressions, applications involving various types of equations and/or systems of equations. Not open to students with credit in MA 117, MA 123, or any course numbered above MA 140. Prerequisite: A grade of "C" or better in MA 104 (or equivalent) or a grade of "A" or "B" in MA 095 or an acceptable (as determined by the Mathematics Department) ACT mathematics score or SAT quantitative score or Compass or Accuplacer Mathematics Placement Test score.

(General Ed Natural Science. Quan and Sci Reason Lit.)

MA 117 Trigonometry (3)

Trigonometric functions, their inverses, graphs, and identities. Solving trigonometric equations. A wide variety of applications, and appropriate use of technology. Graphics calculator required. Prerequisite: A grade of C or better in MA 116 or concurrent with MA 116 or an acceptable (as determined by the Mathematics Department) ACT mathematics score or SAT quantitative score or equivalent knowledge as determined by the Mathematics Department.

(General Ed Natural Science. Quan and Sci Reason Lit.)

MA 123 Pre-Calculus (3)

Algebraic, exponential and trigonometric functions. Topics in plane analytic geometry. Designed for the student preparing for calculus. Not open to students with credit in MA 141 or MA 151. Prerequisite: A grade of "C" or better in MA 116 or MA 117 or an acceptable ACT mathematics score or SAT quantitative score or equivalent knowledge as determined by the Mathematics Department.

(General Ed Natural Science. Quan and Sci Reason Lit.)

MA 131 Topics in Trigonometry and Introduction to Calculus (3)

Trigonometric functions, using right triangles and the unit circle. Trigonometric identities, sinusoidal graphs, and trigonometric applications, including periodic phenomena. Limits, continuity, rates of change, and the meanings of differentiation and integration. Not open to students with credit in MA 141 or MA 151. Prerequisites: MA 116 with a grade of "C" or better or an acceptable ACT mathematics score or SAT quantitative score or equivalent knowledge as determined by the Mathematics Department.

(General Ed Natural Science. Quan and Sci Reason Lit.)

MA 140 Statistics (3)

Introduction to statistics and probability with practical applications. Descriptive techniques including graphical methods, linear regression, probability distributions, sampling distributions, confidence intervals, hypothesis tests. Graphics calculator required. Prerequisite: A grade of "C" or better in either MA 116 or MA 112 or, an acceptable ACT mathematics score or SAT quantitative score or Compass or Accuplacer Mathematics Placement score.

(General Ed Natural Science. Quan and Sci Reason Lit.)

MA 141 Applied Calculus I (3)

Definition and elementary properties of the derivative and definite integral with emphasis on the application of the derivative and integral to problems in business. Not open to student with credit in MA 151.

No more than five hours of credit will be awarded for MA 141 and/or MA 151. Prerequisite: A grade of "C" or better in MA 116 or MA 123 or an acceptable ACT mathematics score or SAT quantitative score or equivalent knowledge as determined by the Mathematics Department.

(General Ed Natural Science. Quan and Sci Reason Lit.)

MA 142 Applied Calculus II (3)

A continuation of MA 141. Elementary differential and integral calculus including the trigonometric functions, techniques of integration and an introduction to multivariable calculus. Applications will be primarily from management and biological sciences. Not open to students with credit in MA 151. Prerequisites: A grade of "C" or better in MA 141 AND a grade of "C" or better in either MA 117 or MA 123 or consent of instructor.

MA 145 Mathematics for Decision Making (3)

This course will introduce students to quantitative methods of decision making used in management, the life and social sciences. Topics covered will include: matrices, linear programming (including the simplex method), probability theory, Markov chains, graph theory, simulation and modeling. Prerequisite: A grade of "C" or better in MA 116 or MA 123 or an acceptable ACT mathematics score or SAT quantitative score or equivalent knowledge as determined by the Mathematics Department.

MA 148 Mathematics of Finance (3)

Interest, annuities, amortization, sinking funds, stocks, bonds. Prerequisite: A grade of "C" or better in MA 116 or MA 123 or an acceptable ACT mathematics score or SAT quantitative score or equivalent knowledge as determined by the Mathematics Department.

MA 151 Calculus & Analytic Geometry I (5)

Differential and integral calculus of the elementary functions with applications. No more than five hours of credit will be awarded for MA 141 and/or MA 151. Prerequisite: A grade of "C" or better in MA 117 or MA 123 or an acceptable ACT mathematics score or SAT quantitative score or equivalent knowledge as determined by the Mathematics Department.

(General Ed Natural Science. Quan and Sci Reason Lit.)

MA 152 Calculus & Analytic Geometry II (5)

A continuation of Mathematics 151. Topics in plane analytical geometry, techniques of integration with applications, and infinite series. Graphics calculator required. Prerequisite: A grade of C or better in MA 151.

MA 200 Number & Operation for Elementary Teachers (3)

Investigation of K-6 mathematical concepts and procedures for counting & cardinality, patterns & algebraic thinking, number systems, operation with whole numbers, fractions, decimals & integers. Significant emphasis on conceptual in-depth understanding of these mathematical topics and connecting concepts to a range of procedures for beginning teachers. Prerequisite: MA112 or higher (or appropriate ACT or SAT quantitative score as determined by the Mathematics Department)

MA 201 Geometry, Proportion & Data Analysis for Elementary Teachers (3)

Investigation of K-6 mathematical concepts and procedures for geometry, measurement, proportional reasoning, and probability & statistics. Significant emphasis on conceptual in-depth understanding of these mathematical topics and connecting concepts to a range of procedures for beginning teachers. Prerequisite: MA200 with a "C" or better.

MA 204 Number Theory and Discrete Math for Middle School and Secondary Teachers (3)

Fundamental ideas of number theory, including divisors, factorization, and modular arithmetic. An introduction to discrete mathematics, including discrete structures, enumeration, logic, and applications. Prerequisite: A grade of "C" or better in MA 151 or MA 230, or consent of instructor.

MA 206 Discrete Mathematics for Computing (3)

Discrete mathematics topics useful in computer-aided problem solving. Topics will include Boolean algebra and computer logic, graphs and trees with algorithms, and analysis of algorithm complexity. Prerequisites: CM 111 and one of the following: A "C" or better in MA 116 or MA 123, or an acceptable (as determined by the Mathematics Department) ACT mathematics score or an acceptable SAT quantitative score, or equivalent knowledge as determined by the Mathematics Department.

MA 207 Discrete Mathematics (3)

Logic, counting methods, induction, functions, equivalence, partial order, and congruence relations. Set up and solve recurrence relations problems. Graph theory and its applications. Significant emphasis on the format and method of mathematical proof. Prerequisite: MA 151 or MA 204 or MA 206, PH 110 or PH 220 or consent of instructor.

MA 228 Mathematics for Elementary and Middle School Educators I (4)

The investigation of mathematical concepts and procedures encountered in grades K-8. Topics include rational numbers and operations, algebraic patterns, number theory, geometry, and measurement. Significant emphasis is placed on conceptual in-depth understanding of these mathematical topics and connecting those concepts to a range of procedures, as needed by beginning teachers. Prerequisite: A grade of "C" or better in MA 112 or higher, or, math ACT score or quantitative SAT score, or Compass Mathematics Placement score or equivalent knowledge as determined by the Mathematics Department.

MA 229 Mathematics for Elementary and Middle School Educators II (3)

The investigation of mathematical concepts and procedures. Topics include Real numbers and operations, data analysis, measurement, introduction to non-Euclidean geometry, and introduction to probability. Significant emphasis is placed on conceptual in-depth understanding of these mathematical topics, connecting those concepts to a range of procedures and mathematics practices, applying the understandings within real world contexts and including appropriate use of technology. Prerequisites: MA 228 with a "C" or better.

MA 230 Math Middle/Secondary Teachers (4)

Standard and non-standard algorithms of numbers (whole, integer, rational, and irrational) using multiple representations with a focus on linking concepts and procedures. Extend understandings to include ratio, rate, and proportions. Two and three-dimensional Euclidean geometry concepts including principles, shape-hierarchies, cross-sections, transformation, congruence, similarity, constructions, and proof. Extend understandings to formula derivation (perimeter, area, and volume) related to two- and three-dimensional objects. Represent abstract mathematical ideas encountered in grades 6-12 using multiple representations including concrete materials. Prerequisite: A grade of "C" or better in MA 116, or appropriate ACT/SAT quantitative score as determined by the Mathematics Department.

MA 253 Calculus/Analytic Geometry III (3)

A continuation of Mathematics 152. Multivariable calculus, vectors in two and three-dimensional spaces. Graphics calculator required. Prerequisite: A grade of "C" or better in MA 152.

MA 271 Contemporary Actuarial Concepts (1)

Current issues in Actuarial Mathematics with emphasis on the releases of the Society of Actuaries. Includes practical application to solving problems of the type included in the Society of Actuary's Course P. Prerequisite: MA 253.

MA 299 Special Topics in Mathematics (1-6)

Directed study in some area of mathematics at the lower division level.

MA 301 Linear Algebra (3)

An introduction to the fundamental concepts and basic computational techniques of linear algebra. Topics investigated from both a theoretical and computational perspective include systems of linear equations, vector spaces, transformations, matrices, eigenvalues and eigenvectors, and orthogonality. Prerequisite: MA 152.

MA 310 Introduction to Operations Research (3)

A study of the techniques and topics that are the foundation of operations research. Topics will include: linear, integer, and dynamic programming, Queuing theory and project scheduling. Prerequisites: CM 111 or CM 170, and MA 142 or MA 151, and MA 145 or MA 301, or consent of instructor.

MA 316 Teaching Algebra (1)

Pedagogical knowledge needed for teaching algebra. Emphasis on fundamental ideas of algebra including algebraic notation; interpreting the structure of an expression in terms of its context; function families and representations; and patterns of change. Includes co-teaching an algebra-based course. Prerequisites: A grade of "C" or better in MA 230 and in either MA 131 or MA 151.

MA 317 Teaching Trigonometry (1)

Pedagogical knowledge needed for teaching trigonometry. Emphasis on fundamental ideas of trigonometry including right triangles, identities, application of periodic phenomena, and trig function families. Includes co-teaching a trigonometry-based course. Prerequisites: A grade of "C" or better in MA 230 and in either MA 131 or MA 151.

MA 318 Teaching Statistics (1)

Pedagogical knowledge needed for teaching statistics. Emphasis on fundamental ideas of statistics including variability, measures of central tendency, randomness, inference, and multiple representations. Includes co-teaching a statistics-based course. Prerequisites: C or better in MA 140 and in MA 230 and in either MA 131 or MA 151.

MA 320 Mathematics for Middle School Teachers (3)

The investigation of mathematical problems as a means to develop as practitioners of the discipline of mathematics. Problems rely on a wide range of math topics. The primary focus of the course is on developing expertise in doing mathematics. By solving problems, students gain expertise in reasoning, constructing arguments, modeling, using resources, being precise, noticing deep structures of problems & expressing those structures with appropriate mathematical language. Significant emphasis on conceptual understanding of mathematics, connecting concepts to a range of realistic problem situations and appropriate use of technology. Understand and develop mathematical arguments and be able to clearly communicate those arguments using multiple representations. Prerequisite: MA 204 or MA 230 with a grade of "C" or better.

MA 330 Mathematical Models (3)

Mathematical models will be constructed of real situations in biology, economics, social science, or engineering. The mathematical results of these models will be interpreted in the context of the real situation. Models utilizing graph theory are emphasized. Prerequisite: MA 207 or consent of instructor.

MA 331 Differential Equations (3)

Methods for solving ordinary differential equations and systems of ordinary differential equations including Laplace transforms, series, numerical methods with applications. Prerequisite: MA 253 or concurrent.

MA 340 ANOVA/Design of Experiments (3)

An introduction to the design and analysis of experiments, both single and multi-factor. Analysis of variance, both fixed effects and random effects. Topics will include Randomized Complete Block Design, the Latin Square Design, Incomplete Block Designs, Nested Designs, and the Split-Plot Design. Prerequisite: A 'C' or better in MA 140 Statistics.

MA 341 Nonparametric Tests/Quality Control (3)

An introduction to nonparametric statistical procedures including signed-rank tests, sign tests, rank and rank sum tests, along with an introduction to the use of statistical methods for the purpose of quality control, including control charts for variables, control charts for attributes, the analysis of process capability, and acceptance sampling. Prerequisite: A "C" or better in MA 140 Statistics.

MA 342 Statistical Computing (3)

An introduction to the statistical software packages SAS and R that includes basic commands and the structure, as well as data entry and manipulation, creating graphs and plots, simulation, bootstrapping, and introductory level programming. Prerequisite: A "C" or better in MA 140 Statistics.

MA 343 Applied Statistics (3)

Sampling, concepts of experimental design. Tests of significance, point and interval estimation, simple and multiple regression, ANOVA, ANCOVA, non-parametric tests, logistic regression, and quality control. Emphasis on developing statistical thought, not just methodology, and on the use of computing technology. Prerequisite: MA 140 or equivalent, or consent of instructor.

MA 344 Mathematical Statistics I (3)

Probability, random variables and expectation, conditional distributions and stochastic independence, distributions of functions of random variables. Prerequisites: MA 253 or concurrent, and one of MA 340, MA 341 or MA 346.

MA 345 Mathematical Statistics II (3)

An introduction to the theoretical framework of statistical methods including: point and interval estimators, large and small sample theories, hypothesis testing methods, linear statistical models with emphasis on regression and correlation, non-parametric testing methods, brief introduction to Bayesian methods for statistical inference. Prerequisite: MA 344.

MA 346 Regression Analysis (3)

Linear regression and correlation concepts and methods, multiple regression, curvilinear regression, applications including use of statistical software. Prerequisite: MA 140 or MA 343, or consent of course instructor.

MA 347 Stochastic Processes (3)

Generating functions, normal processes and covariance stationary processes, Poisson processes, renewal processes, Markov chains, discrete time processes. Prerequisite: MA 344.

MA 348 Time Series Analysis (3)

Regression models with time series error, autocorrelation function, spectral density, autoregressive and moving average processes, and seasonal time series; applications including use of statistical software. Prerequisites: MA 344 and MA 346.

MA 349 Statistical Topics for Actuarial Science (1)

Emphasis on topics in probability and statistics of special importance to actuarial science students. Prerequisites: MA 343, MA 344 or concurrent.

MA 354 Abstract Algebra (3)

An introduction to abstract algebraic structures and their substructures. Emphasis on groups (including symmetry groups, cyclic groups, and permutation groups), with rings and fields as time allows. Prerequisites: MA 253 and MA 207, or consent of the instructor.

MA 361 Game Design (3)

This course offers students the necessary background to design games on their own, including an introduction to the history of game design in the last 150 years. Students are then guided through an exploration of individual game mechanics which are frequently used in highly successful games. During these explorations the game mechanics are deconstructed to understand their structure using elementary mathematical tools, techniques, and language. While making these connections and observations, students are guided through isolated examples on how to integrate these into a game design. The course culminates with a final project in the form of an original game design of the students' own making – either analogue (physical) or digital. Prerequisite: A grade of "C" or better in MA 112 or MA 116, or consent of instructor.

MA 367 Modern Geometry (3)

This course will focus on the study of geometry as an axiomatic system. Emphasis will be placed on conjecture, proof and construction utilizing both classical tools as well as appropriate technology. Geometries investigated will include Euclidean, affine, projective, hyperbolic, and elliptical. A variety of approaches (synthetic, analytical and transformation) will be used to investigate the geometries. Prerequisite: MA 151.

MA 371 Introduction to Real Analysis I (3)

Sets and functions, properties of the real number system, sequences, limits of functions and continuity of functions. Prerequisites: MA 253 and MA 207, or consent of the instructor.

MA 372 Introduction to Real Analysis II (3)

Continuity, differentiation, the Riemann integral, sequences of functions, and infinite series. Prerequisite: MA 371.

MA 373 Applied Analysis (3)

The algebra, geometry, and calculus of vectors. Fourier expansions, the Laplace transformation. Oriented toward applications in the physical sciences. Prerequisite: MA 253.

MA 374 Intro to Complex Variables (3)

Theory of analytic functions, infinite series, Taylor and Laurent expansions. Prerequisite: MA 253.

MA 376 Numerical Analysis (3)

Solution of algebraic and transcendental equations, numerical differentiation and integration, numerical methods in differential equations and linear algebra. Oriented toward machine computation. Prerequisites: MA 241 and CM 170.

MA 380 Problem Solving Strategies (1)

Weekly problem sets require a wide variety of techniques to achieve solutions to the problems. Problem solutions may feature one or more techniques from calculus, linear algebra, discrete mathematics, statistics, geometry, and other areas. The course is repeatable up to three times. Prerequisite: A grade of "C" or better in MA 152, or consent of the instructor.

MA 381 History and Literature of Mathematics (3)

Chronological development of mathematics, with emphasis on the great mathematicians of yore and periods of mathematical genius and invention. Topics include development of numeration systems, algebra, calculus, proof, Euclidean and non-Euclidean geometry, graphing technology, and philosophies of mathematics. Readings from extant and translations of mathematical text. Prerequisite: MA 151 or consent of instructor.

MA 384 Theory of Interest (3)

Topics include measure of interest (emphasis on continuous nature), accumulated and present value factors, annuities, yield rates, sinking funds, and bonds and related securities. Prerequisite: MA 152 or concurrent.

MA 385 Actuarial Mathematics (3)

Theory and application of contingency mathematics in the area of life and health insurance, annuities and sections from both the probabilistic and deterministic approaches. Prerequisites: MA 344, MA 384 or consent of instructor.

MA 388 Capstone Research (1)

Students must complete an individual semester project on a topic in the mathematical sciences under the guidance of one or more faculty from the department. The project serves as a culminating experience for Bachelor's degree students, requiring both a written and an oral component. A minimum of two hours of MA 380 Problem Solving Strategies are required unless permission is granted by the department Chair. Prerequisites: MA 151, MA 152, MA 253, MA 301, a minimum of two hours of MA 380; and, a total of 19 or more hours in mathematics/statistics (MA 151 or above), at least 6 hours of which must have been completed at Washburn University; and, consent of the instructor. Students must have junior or senior standing to enroll in this course.

MA 390 Seminar (1-3)

Directed study in some advanced area. Prerequisite: Consent of instructor.

MA 400 Internship in Mathematics or Statistics (1-6)

A work experience in the area of mathematics and/or statistics performed in cooperation with a business, industrial, medical or educational institution. The internship study must provide a learning experience in the applications of mathematics or statistics. Prerequisite: Consent of Department Chair.

MA 450 Topics in Mathematics (1-6)

Directed study in some area of mathematics at the graduate level.
Prerequisite: Consent of instructor.

Medical Office Specialist (MOS)

MOS 150 Medical Terminology (1)

This course familiarizes students to basic medical terminology and medical abbreviations used in a nursing care setting. The course is a component of and incorporated into the semester long program.

MOS 250 Medical Terminology (5)

Designed to give the student a background in basic medical terminology, this course covers prefixes, suffixes, combining forms, and word roots to compose medical terms. The student learns to spell, pronounce, define, and interpret terminology related to body structure, disease, diagnosis, and treatment.

MOS 255 Medical Records Management (4)

This course will acquaint the student with processing, maintaining and filing medical records. Students will also gain hands-on practice in creating, editing and generating medical reports. Emphasis is placed on confidentiality, appropriate documentation, accuracy and comprehension of information within the documents, and will require the use of medical terminology.

MOS 260 Medical Office Procedure (3)

This course provides hands-on practice of front office skills in a medical setting, both on paper and electronically, using medical office software. The student will also practice entry-level diagnosis coding, procedure coding, and medical claims billing.

Military and Strategic Studies (MS)

MS 100 Introduction to Military Studies (3)

This course explores the use of the armed forces as an instrument of national power. Students will develop an understanding of the doctrinal principles of war, fundamentals of the offense and defense, just war doctrine, rules of engagement, and how nations organize and execute military operations in pursuit of national objectives and vital interests. The course also examines the doctrine of Military Operations Other Than War (MOOTW), focusing on the use of the military during peacetime. Historical case studies and examinations of current events are presented as they relate to the course objectives.

MS 110 Fundamentals of Military Leadership (3)

This course is oriented toward the college graduate entering the workforce in any profession. Fundamental leadership principles developed by the United States military and Department of Defense are presented, including leadership traits, principles, styles, values, and disciplinary strategies. Foundation for the course begins with individual self-evaluation, including the Myers-Briggs Type Indicator and other personal tendency tests, and progresses through selected group dynamics exercises, and in-depth case study analyses of historically effective leadership examples. The primary focus of the course causes students to become familiar with individual preferences and personality traits in order to form an effective personal leadership style.

MS 120 History of The American Military (3)

Historical presentation of the evolution of the American military from colonial period through the present. A survey of those aspects of organization, training and employment of military forces developed over time—either created in response to particular need or borrowed from other international military examples—and presented as a means of providing foundation for an evolving military legacy.

MS 210 A Soldier's Story (3)

A view of warfare from the bottom up, using the individual soldier's perspective as a means of de-emphasizing national strategy in favor of the social, psychological and emotional impact experienced by those engaged in close armed combat. Individual experiences reported from news accounts, personal diaries, journals, letters, and autobiographies are used as the primary source materials for the course.

MS 215 America at War (3)

Exploration of United States participation in the major wars experienced through its history, with special emphasis on the World Wars. Presentation is made on a broad perspective, to include national interests, mobilization of the home front, and the effect of wars on American society, economy and government.

MS 301 Great Battle Campaigns (3)

Examines the conduct of war through in-depth analysis of a particular battle or campaign shown to be pivotal to the prosecution of a war. Students are allowed to select the battle/campaign of their choice, with advisement, and proceed with customized research. Prerequisite: Undergraduate-junior standing or permission.

MS 320 National Security Policy (3)

Study of the institutions, actors and processes that formulate and execute national security policy in the United States. Traces the historical and contemporary roles of governmental branches, administrative agencies, civilian consultants and contractors, and non-governmental organizations in the development and implementation of policy. Also incorporates the development of intelligence analysis in the formulation of policy, to include the evolution of intelligence assets.

MS 322 Terrorism (3)

Course provides an overview of terrorism with emphasis on assisting students to understand foreign and domestic terrorism and counter-terrorism efforts. Prerequisite: None.

MS 330 International Conflict (3)

Examination of contemporary international conflict. Issues addressed include the evolution of warfare within and between nation states, the interplay between conflict and international diplomacy, economic interdependence, and foundational conflict theory.

MS 335 Elite Forces and Special Operations (3)

This course examines the history, organization, and functioning of modern elite military forces. Analyzes the counter-terrorist forces of the United States and other countries, including the U.S. Army Rangers and Special Forces, Navy Sea-Air-Land (SEALs), Air Force Task Force 160 (Night Stalkers), and Marine Corps Reconnaissance (RECON) units. Also exposes students to foreign elite military forces, to include the British Special Air Service (SAS) and Special Boat Squadron (SBS), French Foreign Legion, Israeli Sayeret (Reconnaissance) units. Uses historical case studies illustrating the use of elite forces in special operations, and follows current special operations in the war on terror.

MS 336 Hollywood Goes to War (3)

Examines of the dual role of filmmakers, the cinema, and the motion picture industry to both entertain and inform. Special emphasis placed on how cinematography can shape popular perceptions and attitudes about warfare in general, as well as particular conflicts. Course makes extensive use of film library materials in making thoughtful analysis.

MS 352 Homeland Security (3)

This course will provide an introduction and general overview of homeland security in the United States. The course will focus on helping students understand the key elements of homeland security strategies and operational policies. The role and purpose of homeland security strategy will be evaluated in regard to its implementation in a contemporary democratic society. Prerequisite: None.

MS 360 Independent Study (1-3)

A research project of extensive reading in aspects of the disciplines or engagement in a field experience. May be carried on in absentia. Students are required to prepare and gain approval of the department chair (Criminal Justice) and the supervising professor of a comprehensive learning contract. Students must complete a project prospective that is approved by supervising professor prior to enrollment. Prerequisite: Consent of the Department Chair.

MS 390 Special Topics (1-3)

Course titles and topics will vary from semester to semester, and will present current trends of interest in the organization, equipment, training, and employment of military forces. May be taken more than once under different topical areas, and may be offered for variable credit depending upon the scope, amount of material, or course length.

MS 400 Strategic Leadership (3)

Analysis and assessment of skills, knowledge, attributes, and competencies of senior and strategic leaders. Examines the characteristics, values and responsibilities of military and civilian professionals. Provides and appreciation of leadership characteristics of historical figures.

MS 420 Combat Journalism (3)

Explores war reporting by the media in both historical and political contexts, and demonstrates the balance between open, fair reporting and the security required for military operations. Also presents the role of news accounts in shaping popular opinion. Prerequisite: Undergraduate-junior standing or permission.

MS 425 Military Justice and The Law of War (3)

Traces the development of modern international rules pertaining to the conduct of war, and presents the various treaties and conventions that govern the conduct of military operations. Course comprises a serious literature review within the context of actual war crime investigations and trials to present the geopolitical consequences of war conduct. Prerequisite: Undergraduate-junior standing or permission.

MS 432 Hitler, WWII, and Holocaust (3)

Course is designed to provide in-depth overview of the rise of National Socialism in Germany and subsequent 13 year Third Reich. A component of the course gives emphasis to WWII, changes in the face of Eastern and Western Europe, and evaluating Hitler as a military leader. Prerequisite: None.

MS 450 Military Intelligence (3)

Comprehensive analysis of military intelligence operations from tactical to strategic. Studies aspects of collection, analysis and dissemination of intelligence information, to include the use of national intelligence assets and strategic planning. Prerequisite: Undergraduate-junior standing or permission.

MS 462 Military Operations/Tactics (3)

Course provides doctrine that frames counterinsurgency within the context of the range of military operations. A major component of the course is dedicated to understanding how commanders synchronize their efforts to achieve end states. Also, overview of Army and Marine Corps military tactics. Prerequisite: None.

MS 470 Insurgency & Guerilla War (3)

Overview of insurgent campaigns and guerilla warfare throughout history. Emphasis on popular political movements, opposition to recognized and existing governments, and transition of guerilla leadership into legitimate government. Presents topical coverage of significant historical examples of both successes and failures in revolution and revolt. Prerequisite: Undergraduate-junior standing or permission.

MS 475 Directed Readings (1-3)

Students pursuing the minor in Military Studies may enroll in an independent research project if approved by faculty in consultation with the Department Chair. Independent Study courses must meet equivalencies to Federal definition of a credit hour. Prerequisites: 3 hours of MS course work.

MS 480 Military Operations Other Than War (3)

Explores the emerging role of military forces in non-standard missions such as peacekeeping, humanitarian relief, non-combatant evacuation operations, and support to host nation military training. Also examines the relationship between and cooperation with non-governmental agencies and organizations through the use of case studies.

MS 490 Special Topics (1-3)

Topics vary each semester & are announced in advance. May be taken for more than one semester for variable credit.

Museum and Curatorial Studies (MC)

MC 199 Special Topics in Museum and Curatorial Studies (3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: Consent of Instructor.

MC 200 Introduction to Museum and Curatorial Studies (3)

Museums, collections, and exhibition spaces: why do we have them and what are their functions in society? What sort of institutions fall under the definition of a museum? What does it mean to work in a museum, a gallery, a private collection, or to serve in a curatorial role? This class will explore the history of museums and exhibition spaces and current debates about these institutions, including mission and vision statements, roles and organizational structure, architecture and facilities management, and legal and ethical issues. Lectures, readings, and assignments will encompass interdisciplinary ideas and establish for students the capabilities required of a curatorial professional—from the practical skills needed to operate a museum or gallery to theories on the societal role of museums and other exhibition spaces. Students will learn through lecture, discussion, in-class activities, reading, writing assignments, museum visits, and guest speakers. Prerequisite: None. **(General Ed Humanities. Critical and Creative Thinking.)**

MC 399 Special Topics in Museum and Curatorial Studies (3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: Consent of Instructor.

MC 400 Capstone in Museum and Curatorial Studies (3)

The Museum and Curatorial Studies Capstone prepares students to successfully plan and complete a project related to their professional interests in Museum and Curatorial Studies. Capstone projects may include an analysis of an issue or topic in areas such as collections, curatorial management, education or administration. Prerequisites: MC 200, AR 313, and at least 12 hours of credit in the Museum and Curatorial Studies minor or permission of the director of the Museum and Curatorial Studies program.

Music (MU)

MU 070 Performance Class (0)

Weekly master class-performance/recital course required of all music majors who enroll in private lessons. Prerequisite: Music Major/
Concurrent enrollment in private lessons.

MU 070A Performance Class (0)

Weekly master class-performance/recital course required of all music majors who enroll in private lessons. Prerequisite: Music Major/
Concurrent enrollment in private lessons.

MU 070B Performance Class (0)

Weekly master class-performance/recital course required of all music minors who enroll in private lessons. Prerequisite: Music Minor/
Concurrent enrollment in private lessons.

MU 100 Enjoyment of Music (3)

The materials and structure of music, as they relate to perceptive listening and increased listening enjoyment. Frequent use of recordings and lecture recitals places the course on a plane of practical appreciation. Planned primarily for non-music majors. No prerequisite. **(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)**

MU 103 Jazz History (3)

The materials and structure of jazz music with an emphasis on listening skills. Includes New Orleans, Chicago, Swing, Bop, Free-form and Fusion styles. Frequent use of recordings and live demonstration and performance. No prerequisite.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

MU 104 Movies & Music (3)

An exploration of the role of music in motion pictures and the relationship between music and other aspects of the film medium. No prerequisite.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

MU 106 Introduction to World Music and its History (3)

A survey of music from cultures around the world from musical and anthropological perspectives. *This course has been approved as a multi-cultural course by the Department of Education. No prerequisite.

(General Ed Creative Performing, General Ed Humanities. Global Citizenship Ethics Div.)

MU 108 History of American Rock & Roll (3)

In this course students will study the origins of American rock and roll music from its early roots to current genres. The focus will be on how the development of rock and roll continues to intersect with the social, economic, and cultural trends of popular culture.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

MU 109 Piano for Beginners I (2)

Development of basic piano techniques, sight reading, improvisation, transposition, and keyboard harmony. Planned for non-music majors. No prerequisite.

MU 110 Piano for Beginners II (2)

Development of basic piano techniques, sight reading, improvisation, transposition, & keyboard harmony. Planned for non-music majors.

Prerequisite: Consent of instructor.

MU 111 Guitar for Beginners (2)

Designed to acquaint the beginner with basic chords and accompanying techniques. No prerequisite.

MU 113 Music and Religion (3)

Music and Religion is an interdisciplinary course that studies the genesis, history, and impact of the marriage between music and organized religion. The course will cover topics including; Ancient Greek Modes, Gregorian chant, Organum, the Canonical Vespers, the Motet, the Mass, the Council of Trent, the Reformation, the Oratorio, the Requiem, Anti-Semitism in 19th Century Europe, the Liturgical Calendar, trance music, modern-day contemporary Christian music, etc. Due to the overwhelming canon of western classical music, the course will primarily examine musical forms of worship throughout the history of the Christian church; however, music and other religions will also be covered. Prerequisite: None.

(General Ed Creative Performing, General Ed Humanities.)

MU 120 Fundamentals of Music Theory (2, 3)

Music fundamentals including basic notation, intervals, scales, rhythm, ear training, writing of simple harmonic material with selected music for harmonic & form analysis.

(General Ed Creative Performing, General Ed Humanities. Communication.)

MU 122 Rhythm Perception-Music Majors (1)

Study of rhythm and meter through the analysis of mathematical constructs, notation practices, counting systems and tapping/clapping exercises. Development of rhythmic perception through rhythmic dictation and singing. Prerequisite: Music Major.

MU 123 Integrating Technology in Music (1)

An introduction to understanding the use of computer music applications and MIDI (Musical Instrument Digital Interface) in music. Will include software applications addressing ear training and music theory, sequencing and music notation. Prerequisite: Music Major.

MU 133 Group Piano I (1)

Development of basic piano techniques, sight reading, keyboard harmony and harmonization skills. Prerequisite for MU 133: Music Major status. Prerequisite for MU 134 is MU 133 or consent of instructor.

MU 134 Group Piano II (1)

Development of basic piano techniques, sight reading, keyboard harmony and harmonization skills. Prerequisite for MU 133: Music Major status. Prerequisite for MU 134 is MU 133 or consent of instructor.

MU 145 Marching Band (0-1)

The Fighting Blues Marching Band is open to all majors and non-majors. The Fighting Blues take great pride in entertaining and thrilling our fans in Yager Stadium with our precision marching and exciting music selections. The band also performs for other events, including bowl games, pep-rallies, alumni, administrative and foundation functions. Audition is not required. No prerequisite.

MU 146 Pep Band (0-1)

The WU Blues Pep Band is a driving force of the game day experience at basketball games. Comprised of students from across campus, and performing a repertoire of over 70 pieces, the WU Blues Pep Band is a high-energy, powerful ensemble that enhances the experience of the students, fans, and athletes. Participation in the WU Blues provides students with both musical and nonmusical benefits, developing musical skills in addition to learning valuable life skills relating to their overall education, including communication, teamwork, responsibility, and a sense of accomplishment. Prerequisites: Students selected, by audition, for Pep Band; participation are required to have successfully completed all Marching Band (MU 145/MU 345) requirements in the Fall semester immediately preceding Pep Band. Audition required.

MU 150 Introduction to Music Education (1)

Supervised school-based field experience designed for potential music teacher education candidates to investigate school music teaching as a profession. A minimum of 20 hours in an assigned school setting is required. Orientation to the Washburn teacher education program is included during university classroom sessions. MU 150 must be taken prior to admission to the Professional Teacher Education Program. Prerequisite: Admission into the Bachelor of Music degree in Music Education or consent of instructor.

MU 200 Special Topics/Music (0-3)

A variable content course treating areas of interest to both music majors and non-music majors. May be repeated for credit. Prerequisite: Consent of Instructor.

MU 204 Vocal Techniques - Instrumental Majors (1)

Study of pedagogical techniques for appropriate vocal development and health for instrumentalists. Prerequisite: Admission to Bachelor of Music - Music Education degree, or admission to Bachelor of Music - Instrumental Performance, or consent of instructor.

MU 205 Woodwind Techniques (1)

A practical study of pedagogy, tone production, embouchure, technique, care, repair, and other aspects of playing and teaching for the flute, clarinet, saxophone, oboe, and bassoon in the public schools. No prerequisite.

MU 206 Improvisation (2)

Introduction to the basic materials utilized in the practice of improvisation. Includes practical application through performance and utilization of major scales and modes, ear training, transcription, and the learning of patterns. Prerequisite: MU 215 or Consent of instructor.

MU 208 Guitar Techniques (1)

A study of tone production, technique, care and maintenance of the guitar. Pedagogical approaches for teaching guitar in school settings include: basic chords, positioning, and musical elements. Prerequisite: None.

MU 210 Brass Techniques (1)

The study of tone production, technique, care and maintenance of brass instruments, with an emphasis focused on teaching methods for public education. Prerequisite: None.

MU 211 String Techniques (1)

The study of tone production, technique, care and maintenance of string instruments, with an emphasis focused on teaching methods for public education. Prerequisite: None.

MU 212 Percussion Techniques (1)

The study of technique, care and maintenance of percussion, with an emphasis focused on teaching methods for public education. Prerequisite: None.

MU 213 Group Piano III (1)

Continuation of Group Piano II. Development of functional skills including transposition, score reading and improvisation. Also includes study of the intermediate level piano literature from various style periods. For music majors. Prerequisite for MU 213: MU 134. Prerequisite for MU 214: MU 213.

MU 214 Group Piano IV (1)

Continuation of Group Piano II. Development of functional skills including transposition, score reading and improvisation. Also includes study of the intermediate level piano literature from various style periods. For music majors. Prerequisite for MU 213: MU 134. Prerequisite for MU 214: MU 213.

MU 215 Music Theory I (3)

Study of music notation, scales, intervals, rhythm, meter, triads, seventh chords, figured bass, and Roman numerals, with an introduction to part-writing, harmonic progressions, cadences, and basic non-harmonic tones. Corequisite: MU 217 and MU 123 or consent of instructor. Prerequisite: music major, music minor, or musical theatre concentration status.

MU 217 Aural Skills I (1)

Development of aural skills through sight singing and melodic, rhythmic, and harmonic dictation. Reinforces fundamental concepts covered in Music Theory I. Corequisite: MU 215 or consent of instructor. Prerequisite: music major, music minor, or musical theatre concentration status.

MU 220 Vocal Diction for Singers (2)

The study of lyric diction for singing in English, Italian, Latin, French and German using the International Phonetic Alphabet. Vocalists enroll in Section A; Instrumentalists enroll in Section B. Prerequisite: Music major or consent of instructor.

MU 221 Choral Diction (2)

The study of foreign language diction with an emphasis on appropriate music for public school students and ensembles. Prerequisite: Admission into the Bachelor of Music degree in Music Education or consent of instructor.

MU 226 Wind Ensemble (1)

The Washburn Wind Ensemble is comprised of the finest woodwind, brass, and percussion students at Washburn University. The Wind Ensemble exposes students to the highest quality of music written for wind instruments from the Renaissance to the present. This repertoire, along with visits by renowned artists and educators, give the students a unique opportunity to experience a wide range of compositional techniques, rehearsal processes, and musical possibilities. Membership in the Wind Ensemble is open to both music and non-music majors, through audition.

MU 237 Choral Lab (0)

The initial experience in secondary music education in the area of choral work. No prerequisite.

MU 238 Instrumental Lab (0)

The initial experience in secondary music education in the area of instrumental works. Prerequisite: None.

MU 239 University Band (1)

The University Band is an ensemble that performs works from the standard literature for wind band. The University Band promotes the musical and intellectual growth of its members through careful selection of appropriate repertoire. Membership in the University Band is open to both music and non-music majors, through audition.

MU 240 Beginning Conducting (1)

Basic beat patterns, baton technique, score reading, philosophy and basic concepts of conducting. No prerequisite.

MU 243 Composition (1-3)

Individual tutoring in music composition with emphasis on the development and expansion of music materials. May be taken as an elective. May be repeated as an elective with consent of instructor. Prerequisite: MU 215 or consent of instructor.

MU 244 Collaborative Piano (0-1)

A laboratory designed to develop proficiency in sight reading and accompanying at the keyboard. Required for keyboard concentrations and keyboard majors.

MU 245 Concert Jazz Ensemble II (0-1)

The Washburn Concert Jazz Ensemble studies and performs works from various styles of jazz literature. The Ensemble promotes musical development and intellectual growth of its members through careful selection of appropriate jazz repertoire. Membership is open to both music and non-music majors through audition.

MU 246 Women's Chorus (0-1)

Open, by audition, to both majors and non-majors. Membership is based upon appropriate vocal range and quality, and not gender. The Women's Chorus focuses on the fundamentals of proper choral singing and a wide range of literature. In addition, the ensemble performs on campus and off campus during the year.

MU 247 Choir, Singers (0-1)

Open, by audition, to both majors and non-majors. The Washburn Singers perform a variety of styles of music from the chamber choir repertoire. In addition to participating in on-campus concerts each year, the ensemble also performs throughout the region for various high school choral programs and civic functions.

MU 248 Choir, Washburn (0-1)

Open, by audition, to both majors and non-majors. The Washburn Choir excels in performing a wide variety of styles of choral music. The choir performs regularly in both on and off-campus concerts, including major works with the Topeka and Kansas City symphonies.

MU 249 Washburn Jazz Orchestra (0-1)

The Washburn University Jazz Orchestra meets for the purpose of exploring various styles of jazz literature from swing to contemporary works of notable arrangers and composers through the instrumentation of the jazz big band. Expectations for the ensemble are of a professional quality with the highest possible standards in performance. Selection and placement is by audition only.

MU 250 Washburn Opera Studio (0-1)

Works from the operatic and musical theatre repertoire are rehearsed and performed workshop style. Practice and performance in solo and ensemble singing and staging in material ranging from modern and contemporary Broadway and off-Broadway musicals and revues to classic opera and operettas. Prerequisite: Consent of instructor.

MU 251 Orchestra (0-1)

Enrollment in Washburn University Orchestra is open to music and non-music majors by audition only. Repertory performed ranges from Baroque through contemporary literature. The ensemble performs at least two concerts each semester including Christmas Vespers in the Fall semester. Class participants may audition to perform solos with the orchestra. Selection and placement is by audition.

MU 252 Orchestra, String (0-1)

Enrollment in Washburn University String Orchestra is open to music and non-music majors by audition only. Repertory performed ranges from Renaissance through contemporary literature. Selection and placement is by audition.

MU 254 Small Ensembles-Lower Division (0-1)

This class offers students a chamber music experience with only one person on a part. Pre-existing chamber groups may enroll, or students will be assigned to various chamber groups based upon current enrollment. Recital performance is required.

MU 255 Bassoon (1-3)

Private Lesson - Bassoon. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 256 Cello (1-3)

Private Lesson - Cello. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 257 Clarinet (1-3)

Private Lesson - Clarinet. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 258 Euphonium (1-3)

Private Lesson - Euphonium. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 259 Flute (1-3)

Private Lesson - Flute. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 260 Guitar (1-3)

Private Lesson - Guitar. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 262 Harpsichord (1-3)

Private Lesson - Harpsichord. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 263 Horn (1-3)

Private Lesson - Horn. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 264 Oboe (1-3)

Private Lesson - Oboe. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 265 Organ (1-3)

Private Lesson - Organ. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 266 Percussion (1-3)

Private Lesson - Percussion. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 267 Piano (1-3)

Private Lesson - Piano. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 268 Saxophone (1-3)

Private Lesson - Saxophone. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 269 String Bass (1-3)

Private Lesson - String Bass. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 270 Trombone (1-3)

Private Lesson - Trombone. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 271 Trumpet (1-3)

Private Lesson - Trumpet. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 272 Tuba (1-3)

Private Lesson - Tuba. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 273 Viola (1-3)

Private Lesson - Viola. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 274 Violin (1-3)

Private Lesson - Violin. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 275 Voice (1-3)

Private Lesson - Voice. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 276 Applied Jazz Lessons (1-3)

Private Lesson - Applied Jazz. Private lessons are not for beginners. Only BM Performance majors may enroll for 3 hours. An additional fee is associated with this course. Prerequisite: Non-majors must have consent of instructor. Private lessons are not available for auditors.

MU 300 Music, Politics, Soc Comment. (3)

Interdisciplinary study of music as a tool for social and political commentary, propaganda, and protest, focusing primarily on 20th and 21st century genres, cultural movements, and events. Special emphasis is placed on American trends. Prerequisite: None.

(General Ed Creative Performing, General Ed Humanities. Global Citizenship Ethics Div.)

MU 305 Business of Music (1)

An overview of the music industry, with specific attention given to career development and opportunities, promotion and marketing techniques, contracts and negotiation, and arts management. Prerequisite: Jr. standing or consent of instructor.

MU 307 Music and the Brain (3)

Study of the biological processes of active and passive music involvement; and the resulting effect on individuals' learning, physical health, and mental well-being. Includes an experimental component. Prerequisite: EN 101 and BI 100.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

MU 311 Aural Skills II (1)

Development of aural skills through sight singing and melodic, rhythmic, and harmonic dictation. Reinforces fundamental concepts covered in Music Theory I and II. Corequisite: MU 314 or consent of instructor. Prerequisites: MU 215 and MU 217 or consent of instructor.

MU 312 Aural Skills III (1)

Development of aural skills through sight singing and melodic, rhythmic, and harmonic dictation. Reinforces fundamental concepts covered in Music Theory II and III. Prerequisites: MU 311 and MU 314. Corequisite: MU 315 or consent of instructor.

MU 313 Foundations of Elementary Music Education (2)

This course will examine the history and general principles of aesthetic education, the position of elementary music education in the historical and contemporary frameworks of universal public education, administrative operation of schools and music education programs, elementary music curriculum design and implementation, the management of music material, human relations aspects of teaching music, and aspects of the music educator's professional development. Elementary Music Practicum requirement: All students in this course participate in field-based teaching experiences in the schools. Prerequisite: Accepted in Professional Education program.

MU 314 Music Theory II (3)

Continued study of part-writing, harmonic progressions, cadences, and non-harmonic tones, with an introduction to tonicization, modulation, phrase and period forms, and baroque and classical style analysis. Corequisite: MU 311 or consent of instructor. Prerequisites: MU 215 and MU 217 or consent of instructor.

MU 315 Music Theory III (3)

Study of chromatic harmony, modulation, smaller and larger forms, and other topics related to music before 1900. Corequisite: MU 312 or consent of instructor. Prerequisites: MU 311 and MU 314 or consent of instructor.

MU 316 Music Theory IV (3)

Analysis of modern music and various analytical methods, including set theory, introduction to composition using tools of post-tonal genres, and study of jazz/popular music theory, including improvisation. Prerequisites: MU 312 and MU 315.

MU 317 Orchestration (2)

Practical arranging of piano, choral and instrumental literature. Scoring for voices, strings, woodwinds, brass and percussion instruments including the study of tone, timbre, ranges, transpositions and the blending of these elements. Prerequisite: MU 314 or consent of instructor.

MU 318 Jazz Arranging (3)

Practical arranging in the jazz idiom ranging from small ensembles to big bands. Includes 2 to 4 part writing with drop 2, drop 2 & 4, & rhythm section consideration. Includes study of transpositions & ranges.

MU 320 Form and Analysis (2)

Musical works from the 17th through 20th centuries are analyzed using a variety of analytical techniques. Students explore standard musical forms, musical structures, and questions of aesthetics. Prerequisite: MU 315: Theory and Aural Comprehension III. Prerequisite: MU 315.

MU 325 Music History I (3)

Survey of musical styles, composers, and forms in Western art music from Greco-Roman antiquity through the Baroque era (approx. 1750). Prerequisite: MU 215 or consent of instructor.

MU 326 Music History II (3)

Survey of musical styles, composers, and forms in Western art music from the Classical era (c. 1750) to the end of the Romantic Era (c. 1900). Prerequisite: MU 315 or consent of instructor.

MU 327 Music History III (2)

Survey of musical styles, composers, and forms in Western art music from c. 1900 through the present. Prerequisite: MU 326 or consent of instructor.

MU 330 Vocal Pedagogy and Literature (2)

Examines the anatomy and physiology of the vocal mechanism and its application for the singer, voice teacher, and music educator. The second half of the semester is devoted to song literature and its application for the solo singer as well as the voice teacher. Prerequisite: Music Major status or consent of instructor.

MU 335 Organ Literature I (1-2)

Study of organ literature from the Renaissance to the present incorporation styles, registration, and instrument of each period. Prerequisite: Music Major status or consent of instructor.

MU 336 Organ Pedagogy (1)

Study of various organ method books and relevant literature for use in teaching, plus knowledge of styles, registration, and organs of each musical period. Prerequisite: Music Major status or consent of instructor.

MU 337 Piano Literature I (2)

Keyboard music from the Elizabethan virginal school to the present time, designed primarily for piano majors and prospective piano teachers. Prerequisite: Music Major status or consent of instructor.

MU 338 Piano Literature II (2)

Keyboard music from the Elizabethan virginal school to the present time, designed primarily for piano majors and prospective piano teachers. Prerequisite: Music Major status or consent of instructor.

MU 339 Piano Pedagogy (2)

Examines learning theories, methods and materials for private and group piano teaching at the elementary to intermediate levels, including business and professional aspects of teaching. Prerequisite: Music Major status or consent of instructor.

MU 345 Marching Band (0-1)

The Fighting Blues Marching Band is open to all majors and non-majors. The Fighting Blues take great pride in entertaining and thrilling our fans in Yager Stadium with our precision marching and exciting music selections. The band also performs for other events, including bowl games, pep-rallies, alumni, administrative and foundation functions. Audition is not required. No prerequisite.

MU 400 Special Topics in Music (1-3)

A variable content course treating areas of interest to music majors. May be repeated for credit. Prerequisite: Consent of instructor.

MU 402 Senior Research Seminar (2)

Development and application of research, information literacy, and writing skills in preparation for graduate study and professional activity in music. Designed for music performance majors, but open to all music majors.

MU 415 Tonal Counterpoint (2)

The study, analysis, and writing of inventions, canons and fugues in 18th-century style, using works of J.S. Bach as a model. Prerequisite: MU 316.

MU 417 Secondary Choral Methods (3)

This course will examine materials and specific instructional methods of teaching choral music for grades 7-12 through a concept and skill building approach. Additional emphasis will be placed on the organization and development of vocal performing groups for grades 7-12. Secondary choral practicum requirement: All students in this course participate in field-based teaching experiences in the schools. Prerequisite: MU 313 or consent of instructor

MU 418 Elementary/Secondary Music Education Instrumental Methods (3)

This course will examine materials and specific instructional methods of teaching elementary and secondary instrumental music, by a concept and skill building approach, and emphasize the organization and development of instrumental performing groups. Practicum requirement: All students in this course participate in field-based teaching experiences in the schools. Prerequisite: MU 313 or consent of instructor.

MU 420 Jazz Band Pedagogy (1)

This course will examine the various jazz styles, rehearsal techniques, and improvisation in jazz band. Prerequisite: Pass Fourth Semester Jury or consent of instructor.

MU 421 Marching Band Pedagogy (1)

This course will examine the various marching band styles, marching fundamentals, rehearsal techniques, show design principles and other facets of organization for teaching High School Marching Band. Prerequisite: MU 245/MU 445 Marching Band.

MU 426 Wind Ensemble (1)

The Washburn Wind Ensemble is comprised of the finest woodwind, brass, and percussion students at Washburn University. The Wind Ensemble exposes students to the highest quality of music written for wind instruments from the Renaissance to the present. This repertoire, along with visits by renowned artists and educators, give the students a unique opportunity to experience a wide range of compositional techniques, rehearsal processes, and musical possibilities. Membership in the Wind Ensemble is open to both music and non-music majors, through audition.

MU 439 University Band (1)

The University Band is an ensemble that performs works from the standard literature for wind band. The University Band promotes the musical and intellectual growth of its members through careful selection of appropriate repertoire. Membership in the University Band is open to both music and non-music majors, through audition.

MU 441 Advanced Choral Conducting (1)

A practical opportunity to direct, under supervision, voices under conditions approximating the rehearsal situation. Prerequisite: MU 237 and 240 or consent of instructor.

MU 442 Advanced Instrumental Conducting (1)

A practical opportunity to direct, under supervision, strings and woodwind instruments under conditions approximating the rehearsal situation. Prerequisite: MU 238 and 240 or consent of instructor.

MU 443 Composition (1-3)

Individual tutoring in music composition with emphasis on the development and expansion of music materials. May be taken as an elective. May be repeated as an elective with consent of instructor. Prerequisite: MU 316 or consent of instructor.

MU 444 Collaborative Piano (0-2)

A laboratory designed to develop proficiency in sight reading and accompanying at the keyboard. Required for keyboard concentrations and keyboard majors.

MU 445 Concert Jazz Ensemble (0-1)

The Washburn Concert Jazz Ensemble studies and performs works from various styles of jazz literature. The Ensemble promotes musical development and intellectual growth of its members through careful selection of appropriate jazz repertoire. Membership is open to both music and non-music majors through audition.

MU 446 Women's Chorus (0-1)

Open, by audition, to both majors and non-majors. Membership is based upon appropriate vocal range and quality, and not gender. The Women's Chorus focuses on the fundamentals of proper choral singing and a wide range of literature. In addition, the ensemble performs on campus and off campus during the year.

MU 447 Choir, Singers (0-1)

Open, by audition, to both majors and non-majors. The Washburn Singers perform a variety of styles of music from the chamber choir repertoire. In addition to participating in on-campus concerts each year, the ensemble also performs throughout the region for various high school choral programs and civic functions.

MU 448 Choir, Washburn (0-1)

Open, by audition, to both majors and non-majors. The Washburn Choir excels in performing a wide variety of styles of choral music. The choir performs regularly in both on and off-campus concerts, including major works with the Topeka and Kansas City symphonies.

MU 449 Washburn Jazz Orchestra (0-1)

The Washburn University Jazz Orchestra meets for the purpose of exploring various styles of jazz literature from swing to contemporary works of notable arrangers and composers through the instrumentation of the jazz big band. Expectations for the ensemble are of a professional quality with the highest possible standards in performance. Selection and placement is by audition only.

MU 450 Washburn Opera Studio (0-3)

Works from the operatic and musical theatre repertoire are rehearsed and performed workshop style. Practice and performance in solo and ensemble singing and staging in material ranging from modern and contemporary Broadway and off-Broadway musicals and revues to classic opera and operettas. Prerequisite: Consent of instructor.

MU 451 Orchestra (0-1)

Enrollment in Washburn University Orchestra is open to music and non-music majors by audition only. Repertory performed ranges from Baroque through contemporary literature. The ensemble performs at least two concerts each semester including Christmas Vespers in the Fall semester. Class participants may audition to perform solos with the orchestra. Selection and placement is by audition.

MU 452 Orchestra, String (0-1)

Enrollment in Washburn University String Orchestra is open to music and non-music majors by audition only. Repertory performed ranges from Renaissance through contemporary literature. Selection and placement is by audition.

MU 454 Small Ensembles-Upper Division (0-1)

This class offers students a chamber music experience with only one person on a part. Pre-existing chamber groups may enroll, or students will be assigned to various chamber groups based upon current enrollment. Recital performance is required.

MU 455 Bassoon (1-3)

Private Lesson - Bassoon. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 456 Cello (1-3)

Private Lesson - Cello. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 457 Clarinet (1-3)

Private Lesson - Clarinet. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 458 Euphonium (1-3)

Private Lesson - Euphonium. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 459 Flute (1-3)

Private Lesson - Flute. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 460 Guitar (1-3)

Private Lesson - Guitar. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 462 Harpsichord (1-3)

Private Lesson - Harpsichord. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 463 Horn (1-3)

Private Lesson - Horn. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 464 Oboe (1-3)

Private Lesson - Oboe. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 465 Organ (1-3)

Private Lesson - Organ. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 466 Percussion (1-3)

Private Lesson - Percussion. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 467 Piano (1-3)

Private Lesson - Piano. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 468 Saxophone (1-3)

Private Lesson - Saxophone. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 469 String Bass (1-3)

Private Lesson - String Bass. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 470 Trombone (1-3)

Private Lesson - Trombone. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 471 Trumpet (1-3)

Private Lesson - Trumpet. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 472 Tuba (1-3)

Private Lesson - Tuba. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 473 Viola (1-3)

Private Lesson - Viola. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 474 Violin (1-3)

Private Lesson - Violin. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 475 Voice (1-3)

Private Lesson - Voice. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

MU 476 Applied Jazz Lessons (1-3)

Private Lesson - Applied Jazz. An additional fee is associated with this course. Prerequisite: BM students must pass "4th semester Jury." BA students must pass "Double Jury."

Nursing (NU)

NU 102 Medical Terminology (1)

Introduction to basic terminology used in medical reports and treatment recommendations. Word compositions, prefixes, suffixes, and roots of medical terms are studied in relation to body systems. Extensive use of audiovisual media.

NU 103 Power Up: Success Online Learning (1)

Focuses on preparing students for success in the online learning environment. Designed to introduce students to the Washburn University learning management system and procedures for navigating, available support services, time management skills, strategies for learning online, netiquette, and self-assessment of learning styles. Students validate computer literacy and confirm they have the proper technology to work within online courses. Prerequisite: Admission to RN to BSN Program.

NU 220 Principles of Nutrition (3)

Principles of normal nutrition with emphasis on nutrient interrelationships, dietary assessment, and nutritional needs through the life cycle. Prerequisite: BI 100/BI 101.

NU 301 Applied Pharmacology for RNs (2)

Builds on previously learned knowledge of anatomy, physiology, chemistry, and genetics and introduces concepts of pharmacologic therapy for collaborative nursing practice. Selected medication categories are studied with emphasis on nursing responsibility, accountability, and safety. Case study-based critical thinking exercises focus learning on lifespan issues, patient assessment, and therapeutic response. Prerequisite: Admission to RN to BSN Program.

NU 302 Nursing for Military Healthcare Personnel (2)

This course content covers the assessment and nursing skills that supplements the content from the 68W or equivalent medic training. Students will learn additional assessment and nursing skills to enhance role development as a professional nurse. This is important information that will develop the knowledge, skills, and attitudes to provide holistic nursing care across the lifespan. Prerequisite: Admission to the Nursing program and approved military training (68W or equivalent).

NU 306 Health Assessment & Promotion (4)

Focuses on the complete health assessment, the nursing process, and its relationship to the prevention and early detection of disease in patients across the life span. Introduces processes of health assessment: interviewing, history-taking, and physical assessment. Dominant models, theories and perspectives are used to explain health behavior and considered in relation to evidence-based health promotion and health education strategies. Students are expected to identify and apply pathophysiological principles to selected health issues across the lifespan. Incorporated throughout the course is the importance of communication and collaboration across culturally diverse urban populations. Prerequisite: Admission to the nursing major.

NU 311 Fundamentals Nursing Practice/Practicum (6)

Provides students with the evidence-based theory, rationale and procedure for performing the skills needed for entry level nursing practice. Familiarizes the learner with the problem-solving process, basic communication, collaborative interaction, the teaching-learning process, and critical thinking. Emphasizes cultural influence on health care, the impact of local and global health policies and issues on the quality and safety in nursing practice, and health promotion and prevention of disease. Introduces the student to nursing as a professional discipline. Prerequisite: Admission to the nursing major.

NU 317 Applied Health Assessment for RNs I (2)

Focuses on comprehensive health assessment skills for the professional registered nurse. Expands on health assessment knowledge with an emphasis on health history, critical thinking, clinical reasoning, and advanced physical assessment techniques. Health assessment principles and techniques are expected to be identified and applied to health issues across the lifespan. Incorporated throughout the course is the importance of communication and collaboration across culturally diverse populations and developmental dimensions. Students are expected to identify and apply pathophysiological principles to selected health issues across the lifespan. This fully online course includes virtual simulation experiences. Prerequisite: Admission to RN to BSN Program.

NU 318 Professional Transformation (1)

Introduction to professional nursing expectations. Learning to establish therapeutic relationships is the foundation of professional nursing practice and requires personal accountability and a commitment to life-long learning. An emphasis is placed on legal issues and the principles of altruism, caring, ethics, communication. The value of self-care and reflection in relation to professional transformation is explored. Prerequisite: Admission to the nursing program.

NU 319 Applied Health Assessment for RNs II (2)

Focuses on the continuation of comprehensive health assessment skills for the professional registered nurse. Expand existing skills and knowledge processes of health assessment to include history taking, physical assessment, and application of clinical reasoning and critical thinking. Emphasis is placed on health promotion and disease prevention across the lifespan. Students are expected to identify and apply pathophysiological principles to selected health issues across the lifespan. Students also synthesize nursing knowledge and physical assessment skills to complete comprehensive health assessments on complex patient scenarios. This fully online course includes virtual simulation experiences. Prerequisite: NU 317 and Admission to RN to BSN Program.

NU 320 Pathophysiology I (3)

Introduces the student to pathophysiologic concepts related to the functional and structural changes that accompany disease processes. Focuses on general mechanisms of disease and the application of the basic concepts to body systems and selected disease processes. Prerequisite: Admission to nursing major or permission of instructor.

NU 321 Professional Transformation (1)

Introduces professional nursing expectations. Students learn to establish therapeutic relationships as the foundation of professional nursing practice and personal accountability. The communication of theory of TEAMSTEPS is incorporated throughout the course. The value of self-care and reflection in relation to professional transformation is also explored. Prerequisite: Admission to RN to BSN Program.

NU 322 Pharmacology I with Lab (2)

This introductory course builds on students' knowledge of anatomy, physiology, biology, chemistry, and genetics. Emphasis is placed on principles of pharmacokinetics, pharmacodynamics, and pharmacogenetics for major drug classes. Evidence-based guidelines and technologies related to safe medication administration to minimize the risk of harm and maximize benefit for patients are applied and evaluated in the lab portion of the course. The psychomotor skills for medication administration are practiced and evaluated for competency in this course. This includes mastery of drug dosage calculations. Prerequisite: Admission to nursing major or consent of instructor.

NU 323 Applied Pathophysiology for RNs I (2)

Designed for the professional registered nurse building on current knowledge and experience. Focuses on mechanisms of disease and recognition of the importance of clinical management across the lifespan. Students analyze risk factors and clinical manifestation associated with pathophysiological changes. Emphasis is placed on interpretation and prioritization of data. Prepares the professional nurse to critically approach complex situations systematically. Prerequisite: Admission to RN to BSN Program and NU 317 (can be taken concurrently).

NU 324 Pathophysiology II (2)

Focuses on the application of basic pathophysiology concepts to body systems and disease processes. The course builds on previous principles from NU 320 Pathophysiology I. Etiology of disease, prevention, manifestations, laboratory and diagnostic tests are discussed to provide a foundation to understand an individual's illness experience. Prerequisite: NU 320 or consent of instructor.

NU 325 Intro to Nursing Informatics (2)

Provides a systematic application of information and computer technology to related nursing practice. Emphasis is on integrating nursing practice systems and informatics technology. Examination of the evolution, future, and role of nursing informatics is discussed. Prerequisite: NU 311 or consent of instructor.

NU 326 Pharmacology II (2)

Builds on students' knowledge, skills, and professional attitudes acquired in pathophysiology I, pharmacology I, health assessment, and nursing fundamentals. Emphasis is placed on pharmacotherapeutics of agents used in the prevention, promotion, maintenance, and restoration of health in diverse individuals across the lifespan. Nursing implications and priority patient/family education relative to the utilization of drug therapy are examined. Prerequisite: NU 322 or consent of instructor.

NU 327 Applied Pathophysiology for RNs II (2)

Designed for the professional registered nurse and builds on current knowledge, experience, and Applied Pathophysiology I. Presents the pathophysiology of common variations according to body systems. Students analyze risk factor and clinical manifestations associated with pathophysiological changes. Emphasis continues to be placed on interpretation and prioritization of data, as well as on disease prevention and health promotion. Prerequisite: Admission to RN to BSN Program, NU 323, and NU 319 (can be taken concurrently).

NU 328 Evidence-Based Nursing (2)

Emphasizes appraisal of research studies as the foundation for evidence-based nursing practice. Prerequisites: MA 140 or equivalent and NU 311.

NU 329 Introduction to Nursing Informatics (2)

Provides a systematic application of information and computer technology to related nursing practice. Emphasis is on integrating nursing practice systems and information technology. Examination of the evolution, future, and role of nursing informatics is discussed. Prerequisite: Admission to RN to BSN Program.

NU 330 Indep Study - Nursing (1-3)

Advanced study and/or guided learning experiences in a selected area of nursing. Student defines objectives and learning experiences and selects faculty preceptor. Prerequisite: Consent.

NU 333 Stress Management for Nurses (2)

Discussion of stress theory and the effects stress has on the nurse, professionally and personally. Introduction and application of a variety of stress reduction interventions will be incorporated into each class. Prerequisite: NU 311.

NU 334 Interpreting Lab Tests and Diagnostic Modalities (2)

Interpretation of results of laboratory tests and diagnostic procedures with implications for nursing care of clients. Exploration of new technology used in diagnostic modalities. Prerequisite: NU 311.

NU 335 Special Topics/Nursing (0-3)

Selected subjects of relevance for nursing, announced in advance. Prerequisite: Consent.

NU 338 Nursing for Pain Management (2)

Application of nursing theoretical concepts in the care of clients with pain and comfort needs. Exploration of the nature of the pain experience, theories of pain transmission, types of pain and nursing interventions in the management of pain. Upper division nursing course designed to supplement basic knowledge in the care of patients with pain. Prerequisite: NU 311.

NU 341 Evidence-Based Nursing (2)

Emphasizes appraisal of research studies as the foundation for evidence-based nursing practice. Prerequisite: Admission to RN to BSN Program.

NU 347 Curricular Practical Training (1)

Provides international students the opportunity to gain experience in a USA-based health care system. Emphasis is on an immersion experience to better understand the nursing role within the US health care system. Practicum is a precepted experiences. Prerequisites: 1) Acceptance into the undergraduate nursing program, 2) International student must have a student visa, 3) completion of two required Curricular Practical Training (CPT) forms through the Washburn Office of International Programs, 4) receipt of the CPT authorization on the I-20 document, and 5) approval of the chairperson of the School of Nursing International Studies Committee.

NU 356 Maternal/Women/Newborn Nursing (3)

The study of human life process from conception through the newborn period. Basic theory and concepts related to the maternity cycle, care of the newborn, and nursing care of the mother are emphasized. General knowledge of women's health is introduced. Hospital and community-based learning experiences are provided with individual families during the childbearing phase of the life process. Students utilize application of the nursing process with emphasis on family teaching and health promotion. Prerequisites: All Level 1 and Level 2 courses.

NU 386 Nursing of Older Adults (6)

Designed to build upon learning in previous nursing courses with an emphasis on the aging phase of the life process. Assimilation of intellectual, interpersonal, and technological skills is stressed in caring for adults in varying stages of health in a variety of settings. Practicum experiences emphasize the life process of adulthood and aging. Integration of nursing science into the problem-solving process and extension of intellectual, interpersonal, and clinical skills in the nursing care of older adults, in varying stages of health, in the acute care setting. Prerequisites: All Level 1 courses.

NU 441 Adult Medical-Surgical Nursing Integrative Seminar (1)

Provides uniform mastery and reflective learning experiences to promote the integration of quality health care concepts into nursing practice. Emphasis is placed on holistic, patient-centered, safe, effective, timely, efficient, and equitable health care for patients and families experiencing health crises in a simulated environment. Prerequisites: All Level 1 and Level 2 courses and health clearance.

NU 448 Psychiatric Mental Health Nursing (3)

Basic theories and concepts related to psychiatric care of children, adolescents, adults, and older adults are presented. Emphasis on psychopharmacological and nursing management establishes the basis for mental health care and provides knowledge necessary for a beginning practitioner. Practicum experiences provide opportunities for application of theories and concepts related to the care of psychiatric clients. Emphasis on knowledge of psychopharmacological and nursing management as well as advanced communication skills provide the basis of the clinical experiences in psychiatric nursing necessary for the preparation as a beginning practitioner. Prerequisites: All Level 1 courses.

NU 450 Leadership, Management, Health Policy (2)

Leadership skills emphasize ethical and critical decision-making, initiating and maintaining effective working relationships, communication and collaboration within interprofessional healthcare teams, care coordination, delegation, and development of conflict resolution strategies. Provides a basic overview of complex systems and the impact of power, politics, policy, and regulatory guidelines to these systems. Prerequisites: All Level 1 courses or consent.

NU 451 Leadership, Mgmt, Hlth Policy (2)

Focuses on leadership skills that emphasize ethical and critical decision-making, initiating and maintaining effective working relationships, communication and collaboration within interprofessional healthcare teams, care coordination, delegation, and developing conflict resolution strategies. Students obtain a basic understanding of complex systems and the impact of power, politics, policy, and regulatory guidelines on these systems. Prerequisite: Admission to RN to BSN Program.

NU 456 Adult Medical-Surgical (7)

Theory and concepts related to evidence-based nursing care of adult individuals, families, and groups with varying health-illness needs in a variety of settings. Emphasis is placed on integrating knowledge obtained from natural and social sciences, health assessment, pathophysiology, pharmacology and therapeutic nursing interventions to provide holistic health care with an emphasis on evidence-based, quality, and safe nursing care for baccalaureate generalist. Practicum builds on skills and practice in previous and current courses. Students provide, delegate, and manage care of individual patients and their families in complex health care settings. Students apply evidence, clinical judgment, interprofessional perspectives, and patient preferences in the development and implementation of individual health solutions for patients. Prerequisites: All Level 1 and Level 2 courses.

NU 462 Quality and Safety in Healthcare (3)

System leadership, quality improvement, and safety concepts are presented to promote high quality nursing practice in healthcare settings. Emphasis is placed on the application of evidence-based knowledge from the contemporary sciences and communication with interprofessional healthcare (IHCT) members. Prerequisites: All Level 1, 2 and 3 courses or consent.

NU 463 Quality and Safety in Healthcare (2)

System leadership, quality improvement, and safety concepts are presented to promote high quality nursing practice in healthcare settings. Emphasis is placed on the application of evidence-based knowledge from the contemporary sciences and communication with interprofessional healthcare team members. Prerequisite: Admission to RN to BSN Program.

NU 465 Clinical Prevention and Population Health (3)

Uses the ecological model to explore the determinants of health of aggregates, communities, and populations. Emphasizes public health science and epidemiology principles to guide students in the identification of the social, cultural, environmental and legislative issues within complex community systems. In practicum settings students examine clinical prevention and health promotion strategies for effectiveness, efficiency and equity, and work collaboratively with other health care professionals to identify resources and strategies that contribute to the populations' overall health status. Prerequisites: All Level 1, 2, and 3 courses.

NU 467 Clinical Prevention and Population Health Management/Practicum (3)

In this population-focused course, students use the ecological model to explore the determinants of health of aggregates, communities, and populations. Emphasizes public health science and epidemiology principles to guide students in the identification of the social, cultural, environmental, and legislative issues within complex community systems. During the practicum, students examine clinical prevention and health promotion strategies for effectiveness, efficiency and equity, and work collaboratively with other health care professionals to identify resources and strategies that contribute to the population's overall health status. Prerequisite: Admission to RN to BSN Program.

NU 468 Pediatric Medical-Surgical Nursing (3)

Designed to focus on basic theory and concepts related to adults, children and their families in varying stages of health (and in specialty settings). Emphasis is placed on understanding situational crises of illness with adults, children and families in complex care environments. The practicum is designed to allow students to apply principles of leadership, integrate best evidence in practice, and integrate knowledge, skills, and attitudes in caring for adults, children, and their families in varying stages of health in specialty settings. Prerequisites: All Level 1, 2 and 3 courses.

NU 494 Capstone/Seminar (5)

In this final upper-division nursing practicum students integrate all previous theoretical and clinical learning. The focus is on consolidation of clinical and leadership skills and practice coordination and delegation of care. In seminar groups students process clinical experiences; focus on ethical, leadership, management, and practice issues; and prepare for the NCLEX-RN examination. Prerequisites: All Level 1, 2, and 3 courses; Co-requisites: NU 462, NU 465, and NU 468.

NU 495 Leadership Capstone Seminar/Practicum (3)

Students integrate all previous theoretical and clinical learning in a role not experienced within their current jobs. Clinical experience consolidates leadership skills allowing students to practice coordination and delegation of care. Seminars assist students to process the clinical experience and focus on ethical, leadership, management, and practice issues. Prerequisite: Admission to RN to BSN Program.

NU 580 Nursing Externship (1)

Provides international students the opportunity to gain experience in a USA based health care facility. Emphasis is on an immersion experience to better understand the US healthcare system. The immersion experience may provide the student an opportunity to be reimbursed by the facility, practice the English language, and become familiar with US culture and health care customs. Prerequisites: International students with an F-1 student visa only. Accepted into the graduate nursing program with a current RN license in Kansas.

NU 691 Advanced Practice Psychiatric Mental Health Nursing I Practicum (2)

Direct practice experiences with individuals, families, and groups provide opportunities for application of assessment, diagnosis, and psychotherapeutic skills in working with individuals experiencing short-term and commonly occurring psychiatric illnesses. Prerequisites: Admission to Post-Master's Psychiatric Mental Health Nurse Practitioner Program, NU 681, NU 683, concurrent with NU 690.

NU 777 Continuous Enrollment (1)

This course is to allow students additional time to complete graduate practice inquiry DNP project requirements. Prerequisite: Instructor permission.

NU 801 Theoretical Foundations (2)

Emphasis is placed on the philosophical, conceptual, and theoretical foundations of nursing practice. Students are introduced to the language of theory as it has developed over time and the patterns of knowing that have influenced the development of nursing theory. Selected theories and conceptual models are explored and related to contemporary nursing practice. Prerequisite: Admission to DNP program.

NU 802 Population Health (3)

Explores population health principles, concepts and procedures used in the surveillance and investigation of health-related states or events. Emphasis is placed on the concepts and methods of population health through the use of epidemiologic investigation, appropriate summaries and displays of data, and the use of statistical approaches to describe the health of populations. Aggregate data from a variety of sources will be used to demonstrate the use of epidemiological investigation to support and apply evidence-based practice to current population health concerns. The role of the advanced practice nurse in prevention of disease and injury will be a focus of this course. A basic understanding of the practices of community health and biostatistics is recommended. Prerequisite: Admission to DNP program.

NU 803 Doctoral Leadership - Transformation of Self (1)

Explores the role of doctoral nurse graduates as health care leaders. Students development awareness of self as leader and identify and build upon leadership strengths. Using knowledge of complex systems and leadership theory, students develop strategies and skills to improve patient and population-based health outcomes. Prerequisites: Admission to DNP Program.

NU 804 Emerging Concepts Informatics (2)

Gives the advanced practice nurse the necessary computing skills to critically assess, plan, intervene, and evaluate health care delivery. Discussion topics will include how the advanced practice nurse gathers, stores, retrieves, and utilizes data. Content on utilization of the computer to search for information and data will be included. Prerequisite: Admission to DNP program.

NU 805 Health Policy (2)

Focuses on dynamics of healthcare policy and its influence on complex health care systems and delivery of care. Prepares students to design, implement and influence health care policy formation and to develop skill in competent political action. Prerequisite: Admission to DNP Program.

NU 807 Clinical Scholarship for Evidence-Based Practice (3)

Focuses on the principles and steps of evidence-based practice (EBP), addresses how to apply evidence to practice and how to evaluate the outcomes of an intervention, and addresses practical strategies for the creation of a culture of EBP. Prerequisites: Admission to DNP and successful completion of approved graduate statistics course.

NU 809 Doctoral Leadership (2)

Emphasizes the role of doctoral nurse graduates as healthcare leaders in complex systems. Builds upon understanding personal values and vocational goals in relation to self-leadership strengths. Examines methodologies for expanding leadership competencies to promote innovation, collaborative problem-solving, and improved health outcomes. Prerequisite: Admission to DNP Program.

NU 812 Innovations in Quality Care (2)

Emphasis is placed on quality improvement (QI) methods, tools, and strategies from the science of improvement and the science of safety. Students examine phases and steps of QI and tools for data analysis and display. They also examine strategies for improving teamwork, improving communication, preventing errors, and leading QI projects with an emphasis on ambulatory care settings. Prerequisite: Admission to DNP Program.

NU 813 Advanced Psychiatric Mental Health Roles (2)

Designed to familiarize students with the roles and scope of practice of the advanced practice psychiatric mental health nurse practitioner (PMHNP), including those of psychotherapist and psychopharmacologist. Developing roles in emerging delivery of care systems also will be explored. Integration of established scope and standards of advanced psychiatric mental health nurses into practice are examined. Prerequisite: Admission to Post-Graduate Psychiatric Mental Health Nurse Practitioner Program or consent of instructor.

NU 819 Selected Topics of Sub-Relevance for Nursing (1-3)

Selected subjects of relevance for graduate students, announced in advance. Prerequisite: Admission to DNP Program and consent of instructor.

NU 820 Advanced Pathophysiology (3)

Focuses on application of basic pathophysiologic concepts to situations found in ambulatory care with clients across the life-span. Emphasis is given to analysis of presenting manifestations with the intent to determine cause. Provides a foundation for clinical decision-making in terms of diagnostic findings and the initiation of therapeutic regimens. Application situations will be age specific and clinical diagnosis and management must be made accordingly. Prerequisite: Admission to the DNP program or consent.

NU 821 Advanced Pathophysiology Family (1)

Pathophysiology related to children and infants for students in the family nurse practitioner track. Content includes conditions and diseases specific to pregnancy, post-partum, infancy and childhood. Application of principles from advanced pathophysiology course to age-appropriate case studies. Clinical diagnosis and management focuses on birth to eighteen years of age. Course may be taken concurrent with NU 820.

NU 822 Advanced Pharmacology: Lifespan (1-3)

Promotes understanding and application of advanced pharmacotherapeutic principles used for the management of selected acute and chronic conditions across the lifespan. Emphasis is placed on clinical decision-making as it applies to safe and effective prescribing and monitoring of medications appropriate for the client and clinical situation. Indications, pharmacologic actions, side effects, contraindications, appropriate dosing, and guidelines for use are addressed. Ethical, legal, and economic issues for diverse populations are also considered. Directed learning to achieve a lifespan perspective is accomplished through use of age-specific modular content and learning activities. Prerequisite: NU 820 or consent.

NU 823 Advanced Pharmacology Pediatric (1)

Application of selected drug therapies to meet the needs of children from birth to age 18. Basic concepts of qualitative and quantitative drug actions within the body are examined. Use of standards of practice, prescription writing and ethical, legal and economic issues surrounding the advanced nurses' role in prescribing and monitoring pharmacotherapies, patient education and adherence are addressed. Application is made through age appropriate case studies. Prerequisite: NU 822 or concurrent.

NU 824 Advanced Health Assessment/Differential Diagnosis (4)

Emphasizes the knowledge and skills necessary for advanced health assessment of adults and families in acute care and community settings. Systematic holistic approach to both history taking and physical examination for the purpose of differentiating normal from abnormal assessments to promote health and prevent disease in those settings. Interpretation of diagnostics is emphasized. Prerequisites: Admission to Doctor of Nursing Program, NU 820.

NU 825 Advanced Health Assessment Child/Adolescent (1)

Combines didactic and clinical training to integrate the knowledge and skills necessary for advanced health assessment in the pediatric population. Systemic holistic approach to history taking and physical examination for the purpose of differentiating normal from abnormal assessment appropriate for childhood through adolescence. Prerequisites: Admission to Post Masters Psychiatric Mental Health Nurse Practitioner Program (Post-MSN PMHNP Program) and previous graduate course in advanced health assessment.

NU 826 Advanced Psychiatric Interviewing Differential Diagnosis (2)

Focuses on development of advanced psychiatric interviewing skills for competent assessment of culturally diverse clients across the lifespan and provides the basis for diagnosis of psychiatric disorders. Prerequisite: Admission to Post Masters Psychiatric Mental Health Nurse Practitioner Program or permission of instructor.

NU 828 Advanced Psychopharmacology/Neurobiology (3)

Neurobiological processes are emphasized in the study of advanced psychopharmacological treatment of psychiatric symptoms and disorders. Medication selection, dosage and monitoring in the psychopharmacological treatment of individuals is covered including prescriptive issues associated with ethnicity and age. Prerequisite: Admission to Post Masters Psychiatric Mental Health Nurse Practitioner Program or permission of instructor.

NU 830 Primary Care I (3)

Develops knowledge and skill to provide person- and family-centered care in the primary care setting for culturally diverse people across the lifespan. Wellness and health promotion of individuals and families are emphasized. Simulated management of cardiovascular, respiratory, endocrine, dermatologic and psychological alternatives and patient responses are considered. Prerequisite: Admission to Doctor of Nursing Practice Program, NU 820, NU 822, and NU 824.

NU 832 Primary Care I Practicum (3)

Application of knowledge and skills in caring for diverse patients across the lifespan in primary care and related settings as they experience common acute and chronic health conditions. Utilization of diagnostic reasoning, clinical decision-making, pharmacologic and non-pharmacologic therapeutics, and interdisciplinary collaboration in the provision of person- and family-centered care are emphasized. Primary, secondary, and tertiary levels of prevention are integrated. Emphasis is placed on advanced nursing roles and provision of ethical care. Prerequisite: Admission to the graduate nursing program, NU 820, NU 822, NU 824, NU 900, and concurrent with NU 830.

NU 834 Primary Care II (3)

Builds upon knowledge and skills to provide person- and family-centered care in the primary care setting for culturally diverse people across the lifespan. Wellness and health promotion of individuals and families are emphasized. Simulated management of urinary, renal, reproductive, genomic, immunologic, gastrointestinal, and psychological alterations and patient responses are considered. Prerequisite: Admission to MSN or DNP Program, NU 830, NU 832.

NU 836 Primary Care II Practicum (3)

Application of knowledge and skills in caring for diverse patients across the lifespan in primary care and related settings as they experience more complex acute and chronic health conditions. Builds upon advancing skills in diagnostic reasoning, clinical decision-making, pharmacologic and non-pharmacologic therapeutics, and interdisciplinary collaboration in the provision of person- and family-centered care. Primary, secondary, and tertiary levels of prevention are integrated. Emphasis is placed on the integration of independent practice models, collaboration, and team-based care. Prerequisite: Admission to MSN or DNP program, NU 830, NU 832, and concurrent with NU 834.

NU 838 Primary Care III (3)

Builds upon and advances knowledge and skills to provide person- and family-centered care in the primary care setting for culturally diverse people across the lifespan. Wellness and health promotion of individuals and families are emphasized. Simulated management of neurologic, musculoskeletal, sensory, and psychological alterations and patient responses are considered. Maternal and newborn health topics are discussed. Special topics are introduced to address emerging practice needs. Prerequisite: Admission to MSN or DNP Program, NU 834 and NU 836.

NU 840 Primary Care III Practicum (3)

Application of knowledge and skills in caring for diverse patients across the lifespan in primary care and related settings as they experience complex acute and chronic health conditions. Utilizes advanced skills in diagnostic reasoning, clinical decision-making, pharmacologic and non-pharmacologic therapeutics, and interdisciplinary collaboration in the provision of person- and family-centered care. Special emphasis is placed on patient- and family-centered care of healthy pregnant and post-partum women, newborns, and patients with complex health conditions. Primary, secondary, and tertiary levels of prevention are integrated. Prerequisite: Admission to MSN or DNP Program, NU 834 and NU 836, and concurrent with NU 838.

NU 850 Advanced Practice Psychiatric Nursing I (3)

Theoretical approaches are explored in addressing short-term and less complex illnesses. Evidence-based psychotherapeutic approaches are explored for the treatment of individuals, families, and groups and provide the foundation for clinical management of psychiatric mental health problems that are often time-limited as well as those that commonly occur across the life span. Health promotion and prevention measures are included in therapeutic interventions. Prerequisite: Admission to Post Masters Psychiatric Mental Health Nurse Practitioner Program, NU 824 and NU 828.

NU 852 Advanced Practice Psychiatric Nursing Practicum I (2)

Direct practice experience with individuals, families, and groups provide opportunities for application of assessment, diagnosis, and psychotherapeutic skills in working with individuals experiencing short-term and commonly occurring psychiatric illnesses. Prerequisites: Admission to Post Masters Psychiatric Mental Health Nurse Practitioner Program, NU 826, NU 828, and Concurrent with NU 850.

NU 854 Advanced Practice Psychiatric Mental Health Nursing II (3)

Theoretical approaches are explored in addressing chronic and complex illnesses. Evidence-based psychotherapeutic approaches are explored for the treatment of individuals, families, and groups experiencing complex and chronic mental illnesses and addictions. Differential diagnostic skills and interventional strategies are explored as well as the role of rehabilitation and psycho-educational approaches across the life span. Prerequisites: Admission to Post Masters Psychiatric Mental Health Nurse Practitioner Program, NU 850, NU 852.

NU 856 Advanced Psychiatric Mental Health Nursing II Practicum (3-4)

Provides opportunity for role development of the advanced practice psychiatric nurse in working with individuals, families and groups experiencing complex and chronic mental illnesses and addictions. Prerequisites: Admission to Post Masters Psychiatric Mental Health Nurse Practitioner Program, NU 850, NU 852, Concurrent with NU 854.

NU 858 Advanced Practice Psychiatric Special Focus Practicum (4-5)

In this final precepted practicum, students function in the role of the advanced psychiatric mental health practitioner providing psychopharmacological and psychotherapy interventions. This practicum provides opportunity for the student to focus on skill building in a particular practice setting or client population of interest as well as the synthesis of knowledge into this advanced practice role. Prerequisite: Admission to Post Masters Psychiatric Mental Health Nurse Practitioner Program, NU 854, and NU 856.

NU 860 Special Topics: Advanced Psychiatric Nursing Child/Adolescent (1-2)

Designed to enhance students' knowledge of current evidence-based psychotherapeutic approaches in treatment of children and adolescents. Prerequisite: Admission to Post Masters Psychiatric Mental Health Nurse Practitioner Program, NU 826, and NU 828 or permission of instructor.

NU 900 Philosophical World Views APN (2)

Emphasizes the philosophical orientations that serve as the basis for advanced nursing practice. Promotes philosophical reflection, understanding of evolutionary processes of nursing science, application of nursing and interdisciplinary philosophies and theories to simulated scenarios, and articulation of the student's philosophical worldview. Prerequisites: Admission to DNP Program.

NU 902 Health Care Economics (3)

Focuses on economic theories and principles that can assist health care providers to be effective leaders and decision makers. Examines the economic and political environment in which health care is delivered in the United States and explores the role of regulation in protecting consumers. Provides frameworks for conceptualizing costs, risk, value, and strategic decision making in a competitive environment. Students explore economic analysis commonly used in health care decision making. Prerequisites: Admission to DNP Program, AC 924.

NU 903 Perspectives for the Advanceme (2)

Focuses on the complexities of contemporary global health issues within the context of social, cultural, economic, political, and environmental factors. Incorporates concepts of doctoral leadership to analyze, evaluate and promote collaborative strategies to advance health equity across cultures. Prerequisite: NU 809 Doctoral Leadership or permission of instructor

NU 904 DNP Residency: BSN-DNP (2-6)

Expands advanced nursing practice clinical knowledge and skills within the track. Synthesis of clinical knowledge and incorporation of evidence-based decision making is used to construct symptom-based assessments, advanced differential diagnoses, independent therapeutic interventions, and outcome evaluation of the care of clients/families. Prerequisite: NU 840 and NU 858.

NU 905 DNP Residency: MSN-DNP (1-7)

Expands breadth and depth of current advanced practice nursing clinical knowledge and skills with a focus on delivery of sub-specialty care services and/or full spectrum health care services. Synthesis of clinical knowledge and incorporation of evidence-based decision making is used to construct symptom-based assessments, advanced differential diagnoses, independent therapeutic interventions, and outcome evaluation of the care of clients/families/populations. Prerequisite: NU 807 and NU 840 or NU 858 (Course prerequisite depends on the specialty track in which the student is enrolled.)

NU 971 Practice Inquiry DNP Project I (2)

Provides an overview of methods to promote the systematic uptake of clinical research findings and other evidence-based practices into routine practice. Students complete an in-depth investigation of a practice-focused problem and prepare an evidence-based project proposal for a practice setting. Prerequisite: NU 807, NU 812, NU 902, NU 906.

NU 972 Practice Inquiry DNP Project II (2)

Prepares students to translate evidence into practice and implement evidence-based changes into a practice setting. Data are collected and analyzed to guide recommendations for practice change and hence to improve the quality and effectiveness of health care services. Prerequisite: NU 971.

NU 973 Practice Inquiry DNP Project III (2)

Provides the culminating experience for students to complete and defend the DNP Practice Inquiry Project. Project design, application of theory, implementation processes, analysis of financial implications, contributions to the profession of nursing, leadership skills, and interprofessional experiences are considered. Dissemination of the project findings to a targeted audience is an expectation. Prerequisite: NU 972.

NU 977 Continuous Enrollment (1)

This course is to allow students additional time to complete graduate practice inquiry DNP project requirements. Prerequisite: Instructor permission.

Philosophy (PH)

PH 100 Introduction to Philosophy (3)

Philosophy is introduced to students by a survey of major areas of Philosophy (e.g., metaphysics, epistemology, ethics, history of philosophy) with an emphasis on traditional techniques of philosophical analysis and logical argument. Prerequisite: None.

(General Ed Humanities. Global Citizenship Ethics Div.)

PH 102 Ethics: Introduction to Moral Problems (3)

Rational decision-making procedures in moral theory and their application to specific moral problems and problem areas; e.g. racism and sexism; the moral status of animals; moral issues in sexual orientation.

(General Ed Humanities. Global Citizenship Ethics Div.)

PH 103 Introduction to Political Philosophy (3)

Philosophical examination of the central problems and ideas of Politics and the State; e.g., the legitimate nature and extent of the State; justification of political authority; rights of citizens.

PH 104 Introduction to Logic and Critical Thinking (3)

Students are exposed to general principles of thought and reason and to workable guidelines for improving their powers of rational thought. Prerequisite: None.

(General Ed Humanities. Critical and Creative Thinking.)

PH 105 Introductory Topics in Philosophy (1-3)

Topics will vary from semester to semester and will be announced in advance. May be repeated for credit when topics vary.

PH 115 Philosophy of Love & Sex (3)

An introduction to philosophical thinking about human love and sexual relationships. The course will examine fundamental questions such as "What is Love?" and "What is Perversion?" It will also raise moral questions dealing with the proper role and circumstances of sex, and deal with socio-sexual issues such as pornography and the sexist implications of sex.

(General Ed Humanities. Global Citizenship Ethics Div.)

PH 117 Creation, Evolution, Morality (2-3)

Evolutionary theory appears to hold that human beings are natural products of evolutionary forces, without special moral or religious status. What does this mean for morality? Can notions of right and wrong, good and evil, have a place in an evolutionary world? What are the religious implications of evolution? This course will consider these and other philosophical and moral issues raised by Darwinism.

(General Ed Humanities. Global Citizenship Ethics Div.)

PH 200 General Topics in Philosophy (1-3)

Topics will vary from semester to semester and will be announced in advance. May be repeated for credit when topics vary.

PH 201 Corrupting the Youth: Ancient Greek Philosophy (3)

It is probably no exaggeration to say that the entire Western intellectual cannon can trace its roots to the first Philosophers in fifth-century BCE Greece. By far the most famous, was Socrates. So, should we be disturbed that he was sentenced to death for 'corrupting the youth'?

We will look at the claims he made that resulted in his execution, before focusing on the ways in which his student, Plato, built upon and systematized these ideas. We will close by looking at Plato's student, Aristotle, widely regarded as one of the most influential thinkers in human history, and of whom it has been said, "it is doubtful whether any human being has ever known as much as he did." Prerequisite: EN 101 or EN 102 with a grade of C or better.

(General Ed Humanities. Critical and Creative Thinking.)

PH 202 I think therefore I Am? Modern Philosophy 1600-1800 (3)

Contemporary scientific consensus seems to be that the Universe is an infinitely large machine, and that, ultimately, everything in it - including us - can be explained mathematically. But where did these notions come from, and why should we believe them? Is this really how the world is, and how can we find out? We will trace the origin of these claims to the sixteenth century. Rene Descartes, the 'father of modern philosophy', proclaimed, "I think, therefore I am." As one of the 'Rationalists' he argued that the world could be explained, mathematically, and through reason, alone. We will follow by investigating the 'Empiricists', who argued instead that the world could be known, if at all, only through experience. We will finish in the eighteenth century with Immanuel Kant, who claimed that the world as we know it is in some sense a product of our own minds. Prerequisite: EN 101 or EN 102 with a grade of C or better.

(General Ed Humanities. Critical and Creative Thinking.)

PH 203 Introduction to Buddhist Philosophy (3)

An introduction to the basic problems, issues and theories of the Buddhist philosophical tradition, including: the four noble truths, the claim that there is no self as we normally understand it, and the claim that everything is impermanent and illusory. Prerequisite: EN 101 or 102 with grade of C or better.

(General Ed Humanities. Critical and Creative Thinking.)

PH 205 Existentialism (3)

Introduction to both theistic and atheistic existentialism through the study of some of the more prominent existentialists (e.g. Kierkegaard, Nietzsche, Sartre, Camus, Buber, Tillich), major existentialist themes (e.g., concrete individuality, freedom of choice, dread, alienation and death), and the influences of existentialist thought on contemporary literature, ethics, social and political theory, psychology and religion. Prerequisite: EN 101 or EN 102 with a grade of C or better.

PH 207 Existence of God (3)

An elementary course in Philosophy and Religion focusing upon the specific rational arguments which have been advanced for and against the existence of a supreme being. Prerequisite: EN 101 or EN 102 with a grade of C or better, or consent of the Instructor.

(General Ed Humanities. Critical and Creative Thinking.)

PH 211 Introduction to Ethical Theory (3)

Introductory survey of problems and positions in ethical theory: moral absolutism and moral relativism; moral decision-making theories, including Utilitarianism and Kant; evidence in moral argument. Prerequisite: EN 101 or EN 102 with a grade of C or better.

PH 214 Medical Ethics (3)

Philosophical examination of moral problems that arise in health care; e.g., professional-patient relationship; role and rights of the patient; truth-telling and confidentiality; abortion and euthanasia. Prerequisite: EN 101 or EN 102 with a grade of C or better.

(General Ed Humanities. Global Citizenship Ethics Div.)

PH 220 Symbolic Logic (3)

Analysis of argument forms, using symbolic logic as a primary tool. Prerequisite: None.

(General Ed Humanities. Quan and Sci Reason Lit.)

PH 300 General Topics in Philosophy (1-3)

Topics will vary from semester to semester and will be announced in advance. May be repeated for credit when topics vary.

PH 301 I think therefore I am? Modern Philosophy 1600-1800 (3)

Contemporary scientific consensus seems to be that the Universe is an infinitely large machine, and that, ultimately, everything in it – including us – can be explained mathematically. But where did these notions come from, and why should we believe them? Is this really how the world is, and how can we find out? We will trace the origin of these claims to the sixteenth century. René Descartes, the 'father of modern philosophy', proclaimed, "I think, therefore I am." As one of the 'Rationalists' he argued that the world could be explained, mathematically, and through reason, alone. We will follow by investigating the 'Empiricists', who argued instead that the world could be known, if at all, only through experience. We will finish in the eighteenth century with Immanuel Kant, who claimed that the world as we know it is in some sense a product of our own minds. Prerequisites: EN 101 or EN 102 with a grade of C or better AND either PH 100, 201, 203, or 207 with a grade of C or better.

PH 302 Philosophy of Religion (3)

Analyzes basic religious concepts such as God, faith, the problem of evil, etc. and looks closely at the meaning of religious language. Prerequisite: PH 201 or PH 301 with a grade of C or better, or consent of the instructor.

PH 303 Topics-History of Philosophy (3)

Advanced study of a major period, movement, or individual in the History of Philosophy. May be repeated for credit when topics vary. Prerequisite: PH 201 or PH 301 with a grade of C or better, or consent of the instructor.

PH 311 Issues in Ethical Theory (3)

Specific issues in the philosophical study of morality; e.g., the objectivity of moral judgments, the place of reason in moral thinking, proof of basic moral principles, the status of moral language. Prerequisite: At least one of the following: PH 100, PH 102, PH 201, PH 202, PH 211 or PH 301 with a grade of C or better.

PH 312 Social-Political Philosophy (3)

Current problems in social and political philosophy including but not limited to distributive justice, reparations, liberalism, alienation, radicalism, freedom and natural rights, social decision procedures, the concept of public interest, and the relationship between justice and equality. Prerequisite: At least one of the following: PH 100, PH 102, PH 103, PH 201, PH 211 or PH 301 with a grade of C or better.

PH 313 Professional Ethics (3)

The study of complex ethical issues that arise in professions such as medicine, finance, law, journalism, engineering, and others. Issues examined include, but are not limited to those that are found across many different professions: whistleblowing and loyalty, truth-telling and lying, privacy and confidentiality, and issues of social responsibility for professionals. 3 credit hours of Philosophy, or instructor's consent. Prerequisite: At least one of the following: PH 100, PH 102, PH 103, PH 201, PH 202, or PH 211 with a grade of C or better

(General Ed Humanities. Global Citizenship Ethics Div.)

PH 315 Philosophy of Law (3)

A philosophical examination of such topics as the fundamental concept of law; relations between legal theory and moral theory; the nature of legal reasoning; justification of punishment. Prerequisite: 3 credit hours of Philosophy with a grade of C or better.

(General Ed Humanities. Global Citizenship Ethics Div.)

PH 320 Advanced Logic (3)

Advanced study of logical theory and language calculi. Prerequisite: PH 220 with a grade of C or better.

PH 325 Philosophy of Mathematics (3)

Philosophical aspects of mathematics, including the foundation of mathematics, the nature of mathematical truth, and the ontological status of mathematical objects. Prerequisite: PH 220 or MA 207 with a grade of C or better.

PH 327 Philosophy of Science (3)

Philosophical aspects of the physical and social sciences, including the nature and problems of theory construction and concept formation, empirical testability, explanation and prediction, and problems of induction and confirmation. When the topics studied differ significantly, this course may be repeated for credit. Prerequisite: PH 104 or PH 200 with a grade of C or better.

PH 330 Philosophy of Mind (3)

Classical and contemporary treatments of the traditional problems of mind-body, other minds, mental acts, self, persons, perception etc. Prerequisite: PH 100, PH 201 or PH 301 with a grade of C or better, or consent of the instructor.

PH 335 Metaphysics (3)

Alternative theories of the nature of ultimate reality, including concepts such as cause, substance, time, etc. Prerequisite: PH 201 or PH 301 with a grade of C or better, or consent of the instructor.

PH 340 Aesthetics (3)

A philosophical approach to such questions as the nature of art, aesthetic value, and art criticism. Prerequisite: PH 201 or PH 301 with a grade of C or better, or consent of the instructor.

PH 386 Special Studies (1-3)

Individual study in the thought of a particular philosopher or on a particular philosophical problem. Regular conferences to be scheduled with the professor directing the study. May be repeated for credit. Prerequisites: 9 hours of Philosophy, and permission in advance by the professor with whom the student desires to work.

PH 398 Senior Thesis Preparation (3)

Independent research in preparation for a senior thesis. Students will complete preliminary research in the area of their senior thesis and prepare a thesis proposal. In addition, students will complete the portfolio project which asks them to submit a folder containing philosophy papers from previous courses along with their reflection upon their development over time in writing such papers. The proposal completed in PH 398 may not be or have been submitted for credit in any other course. Prerequisite: Senior Philosophy Major

PH 399 Senior Thesis (3)

Independent research, writing and defense of a substantial paper, under faculty supervision. Work completed in PH 398 and PH 399 may not be or have been submitted for course credit in any other course. Prerequisite: PH 398 with a grade of C or better.

PH 520 Advanced Logic (3)

Advanced study of logical theory & language calculi. Prerequisite: PH 220.

PH 527 Philosophy of Science (3)

Philosophical aspects of the physical and social sciences, including the nature and problems of theory construction and concept formation, empirical testability, explanation and prediction, and problems of induction and confirmation. When the topics studied differ significantly, this course may be repeated for credit. Prerequisite: PH 104 or PH 220.

PH 540 Aesthetics (3)

A philosophical approach to such questions as the nature of art, aesthetic value, and art criticism. Prerequisite: PH 201 or PH 202 or consent of the instructor.

PH 600 General Topics in Philosophy (1-3)

Topics will vary from semester to semester and will be announced in advance. May be repeated for credit when topics vary. Prerequisites: Consent of instructor.

PH 603 Topics in History Philosophy (3)

Advanced study of a major period, movement, or individual in the history of philosophy. May be repeated for credit when topics vary. Prerequisites: PH 201 or PH 202 with a grade of C or better, or consent of the instructor.

PH 620 Advanced Logic (3)

Advanced study of logical theory and language calculi. Prerequisite: PH 220 with a grade of C or better.

PH 627 Philosophy of Science (3)

Philosophical aspects of the physical and social sciences, including the nature and problems of theory construction and concept formation, empirical testability, explanation and prediction, and problems of induction and confirmation. When the topics studied differ significantly, this course may be repeated for credit. Prerequisite: PH 104 or PH 220 with a grade of C or better.

PH 640 Aesthetics (3)

A philosophical approach to such questions as the nature of art, aesthetic value, and art criticism. Prerequisite: PH 201 or PH 201 with a grade of C or better, or consent of the instructor.

PH 686 Special Studies (1-3)

Individual study in the thought of a particular philosopher or on a particular philosophical problem. Regular conferences to be scheduled with the professor directing the study. May be repeated for credit. Prerequisite: 9 hours of Philosophy and permission in advance by the professor with whom the student desires to work.

Physics (PS)

PS 101 Introduction to Physics (3)

For non-majors. Recommended for partial fulfillment of the graduation requirement in natural science. Selected topics from the field of classical and modern physics are studied and discussed in terms of their impact on modern society without mathematical emphasis.

(General Ed Natural Science. Quan and Sci Reason Lit.)

PS 108 Physical Science (3)

Introduces basic physics and chemistry with an emphasis on the understanding and significance of accepted fundamental principles. It provides an opportunity to develop critical thinking suited to pursuing any science, as well as giving a larger perspective than can be obtained by study of a single science. Explores contemporary issues as well as the methods, limitations, and societal implications of scientific advancement. Students will be encouraged to explore the relationship between science and everyday life. For non-majors. Recommended for partial fulfillment of the graduation requirement in natural science. Prerequisite: MA 112 Essential Mathematics or MA 116 College Algebra or higher, or concurrent enrollment.

(General Ed Natural Science. Quan and Sci Reason Lit.)

PS 120 Meteorology (3)

The Earth's atmosphere and basic circulation patterns including types and classification of clouds and air masses, the formation of fronts, winds aloft computations, principles of forecasting, energy considerations and other associated physical processes. Prerequisite: MA 104 or one and one-half years of High School algebra.

(General Ed Natural Science. Quan and Sci Reason Lit.)

PS 126 Physical Science for Elementary Educators (5)

This course provides an introduction to the fundamentals of physics and chemistry, for the pre-service elementary school teacher. Course activities are inquiry-based, serving to improve confidence in both scientific process and content learning, with methods applicable to elementary curricula.

(General Ed Natural Science. Quan and Sci Reason Lit.)

PS 131 Biological Physics for the Health and Life Sciences (3)

A one-semester course covering classical and modern physics, designed primarily for students in the health professions. Typical subjects include the laws of motion, gravity, heat, sound, light, electricity, and magnetism. Subjects are treated conceptually along with the use of basic data. Recommended for partial fulfillment of the graduation requirement in natural science. Not applicable toward credit for physics major requirements. Students will not receive credit for both PS 101 and PS 131. Prerequisite: MA 112 Essential Mathematics or MA 116 College Algebra or higher, or concurrent enrollment.

(General Ed Natural Science. Quan and Sci Reason Lit.)

PS 132 Biological Physics for the Health and Life Sciences**Laboratory (1)**

A laboratory exploring classical and modern physics, designed primarily for students in the health professions. Experiments in motion, gravity, heat, sound, light, electricity, and magnetism are designed to teach physics concepts and basic laboratory techniques. The course is designed to introduce students to laboratory techniques used in physics emphasizing instrumentation, data acquisition, and analysis. One three-hour laboratory period per week. Recommended for partial fulfillment of the graduation requirement in natural science. Not applicable toward credit for physics major requirements. Prerequisite: PS 131 Biological Physics for the Health and Life Sciences or concurrent enrollment. Concurrently enrolled students may not drop PS 131 and remain enrolled in PS 132.

PS 261 College Physics I (5)

Recommended for medical arts and general science students. Mechanics, heat, and sound are studied. Lecture-recitation and laboratory. Prerequisite: MA 117 or MA 123 or MA 151 (or concurrent). (General Ed Natural Science. Quan and Sci Reason Lit.)

PS 262 College Physics II (5)

A continuation of College Physics I. Electricity, optics and modern physics. Lecture-recitation and laboratory. Prerequisite: PS 261 with a grade of C or better.

PS 281 General Physics I (5)

Required for students who wish to major in physics and astronomy and for pre-engineering students. Mechanics, heat, and sound are studied. Lecture-recitation and laboratory. Prerequisite: MA 151. (General Ed Natural Science. Quan and Sci Reason Lit.)

PS 282 General Physics II (5)

A continuation of General Physics I. Electricity and magnetism, optics, and modern physics. Lecture-recitation and laboratory. Prerequisite: PS 281 with a grade of C or better.

PS 291 Elementary Computational Physics (2)

An introduction to computer modeling of physics problems using spreadsheet programs, computer algebra systems, and other mathematical software. Prerequisite: MA 151 or concurrent.

PS 310 Relativity (2)

Concepts of space and time, frames of reference, Einstein's Theory of Special Relativity and Elements of General Relativity. Prerequisite: PS 262 or PS 282; MA 253.

PS 318 Earth and Space Science for STEM Educators I (3)

Designed to introduce the history, structure, composition, and dynamic processes that shape our planet, as well as the impact humans have on Earth's resources, to STEM educators. Connects astronomy and geology through the study of planetary science and exploration. This course does not satisfy any physics requirement outside of the STEM education program. Prerequisites: CH 317 with a letter grade of C or higher; concurrent enrollment in ED 318.

PS 320 Electromagnetic Theory I (3)

The basic theory of electro-magnetic fields and waves using the calculus and vector methods. Prerequisites: PS 262 or PS 282; MA 253.

PS 321 Electromagnetic Theory II (3)

A continuation of Physics 320. Prerequisite: PS 320.

PS 322 Circuits and Electronics (0-3)

Design and applications of DC and AC circuits along with electrical measurement and analysis. Topics include filters, complex impedance, Fourier analysis, and semiconductor devices. Two lecture hours and three laboratory hours per week. Prerequisite: PS 262 or PS 282.

PS 330 Optics (3)

Physical and geometrical optics. Lecture-recitation. Prerequisite: PS 262 or PS 282.

PS 332 Optics Lab (1)

Experiments with lens systems, mirrors, aberrations, the spectrometer, interference and diffraction, and polarization. Prerequisite: PS 330 or concurrent enrollment.

PS 334 Thermodynamics (3)

Consideration of heat phenomena, first and second laws of thermodynamics, their principal consequences and application to simple systems, and the kinetic theory of gases. Prerequisite: PS 262 or PS 282; MA 253.

PS 335 Theoretical Mechanics I (3)

A mathematical study of classical mechanics. Rigid body statics and dynamics, kinematics and dynamics of particles and systems of particles, and conservative and non-conservative force fields. Prerequisites: PS 262 or PS 282; MA 253.

PS 336 Theoretical Mechanics II (3)

A continuation of Theoretical Mechanics I. Prerequisite: PS 335.

PS 340 Computer Interfacing and Instrumentation (3)

Design and implementation of scientific instruments via computer interfacing, emphasizing both software and hardware considerations. LabVIEW and Arduino platforms are used specifically. Two lecture hours and one three-hour laboratory per week. Prerequisites: PS 262 or PS 282

PS 350 Modern Physics I (3)

Phenomena specific to the extra-nuclear structure of the atom; phenomena peculiar to the atomic nucleus; introduction to quantum and wave mechanics, and relativity. Prerequisites: PS 262 or PS 282; MA 253.

PS 351 Modern Physics II (3)

A continuation of Physics 350. Prerequisite: PS 350.

PS 352 Modern Physics Laboratory (1)

Measurements of constants fundamental to atomic physics: Planck's constant, electron charge and mass, speed of light, etc. Techniques of nuclear alpha, beta and gamma ray spectroscopy. Prerequisite: PS 350.

PS 360 Physics Research (1, 2)

Experimental design and techniques. Extensive use of technical literature will be necessary. Independent work is encouraged. This Capstone requires summative reflection, serving as a culminating experience for Bachelor's degree students. Prerequisite: Consent of instructor.

PS 365 Introduction to Theoretical Physics (3)

Application of ordinary and partial differential equations, Fourier series and Transforms, partial differential equations with solution methods, and tensor analysis as applied to problems in the fields of physics and engineering. Prerequisites: PS 262 or PS 282 or concurrent enrollment; MA 253.

PS 366 Introduction to Computational Physics (3)

Techniques and models in computational physics. Prerequisites: PS 262 or PS 282; MA 253.

PS 368 Computational Physics Research (3)

Computational physics research in any of the areas of physics. A written and an oral presentation of the work is required. This Capstone requires summative reflection, serving as a culminating experience for Bachelor's degree students. Prerequisite: Departmental permission.

PS 370 Special Subjects in Physics (1-3)

Offered on demand as teaching schedules permit. Material is to be chosen according to student interest from any one of a number of fields of physics. Prerequisite: consent of instructor.

Political Science (PO)

PO 106 The Government of the United States (3)

Theory, organization and functioning of our democratic government in modern society with special emphasis on the national government and its relations with the states. The role of government in a democratic society as a supplier of services, the embodiment of values and the arbiter of conflict is stressed.

(General Ed Social Science. Global Citizenship Ethics Div.)

PO 107 Kansas and the U.S., State and Local Government (3)

Examines American state and local politics, government, and public policies from the grassroots to the institutional level with a particular emphasis on the similarities and differences that exist in Kansas in comparison to the characteristics found in the rest of the states. Contrasting the fundamental differences between states and localities and the national government is also an emphasis of the course.

(General Ed Social Science. Global Citizenship Ethics Div.)

PO 225 Introduction to International Politics (3)

Theory and practice of international politics with special attention to foreign policy and decision-making process, major issues facing the international system, the role and functions of international and transnational organizations with respect to conflict and cooperation in the international community.

(General Ed Social Science. Critical and Creative Thinking.)

PO 235 Governments of the World: Comparative Politics (3)

Examines selected governments of the world. Basic concepts, theories and methods in comparative analysis of political institutions, processes, and policies of nations. Case studies of selected political systems developed and developing, Western and non-western, democratic and non-democratic illustrate the analytical approaches.

(General Ed Social Science. Global Citizenship Ethics Div.)

PO 245 Introduction to Public Administration (3)

Designed to acquaint the student with the organization and functioning of the administration of government. Includes introduction to theories of administration, policy and administration values, study of the governmental bureaucracy and administrative behavior.

PO 255 Introduction to the American Legal System (3)

Designed to acquaint the student with the basic institutions and procedures of the American legal system. Also a very basic introduction to substantive areas of American law such as: torts, contracts, civil procedure, regulation of business.

(General Ed Social Science. Critical and Creative Thinking.)

PO 300 Special Topics/Political Science (1-3)

Topics will vary from semester to semester and will be announced in advance.

PO 305 Public Policy (3)

Examines the role of government as a supplier of services to its citizens. It will cover the following topics: the nature of politics and policy, social problem identification and articulation, interest groups and the formation of public policy, the analysis of policy content, policy implementation, and policy evaluation.

PO 306 Urban-Metropolitan Government (3)

Analysis of historical, political, economic, and social development of urban America. Emphasis will be placed on discussion of contemporary urban problems through investigation of the legal status of municipal and county governments, machine, reform, and ethnic politics, socioeconomic class status and urban society, community power, forms of participation in urban politics, the problems and politics of urban policymaking, and suggestions for improving urban-metro governments.

PO 307 Internship - State or Local Government (3-6)

Experience in an operating office of state or local government in order to gain insight into government at these levels. Problem paper required. Prerequisites: Political Science 107 and/or consent of instructor. Junior or Senior standing.

PO 308 American Elections and Federalism (3)

Examines American national elections in the context of the American federal system. A study of the nature, patterns, and impact of American federalism, including historical, fiscal, economics, policy and political significance.

PO 309 Kansas Legislative Experience (3)

Analysis of the Kansas legislature and governor, along with other state-wide offices and the media — how all function within the governmental system of Kansas. Along with an in-depth study of the legislative session, the student will be required to attend legislative committee meetings, floor debates, and gubernatorial press conferences. Students will also conduct participant observation within a legislative or executive branch office. No prerequisites.

PO 325 Advanced International Relations (3)

The course will examine traditional realist approaches to international power; alternative perspectives to power politics; American foreign policy; and understandings of the roots and resolution of international conflict.

PO 332 Politics through Film & Literature (3)

Exposes students to the nature and varied dynamics of politics through film and literature. Emphasis will be placed on classical, modern, and post-modern understandings of politics as expressed in film and literature with the expectation of sharing an informed and inviting view of politics in the Western world. No prerequisites.

PO 335 Advanced Comparative Politics (3)

A study of the governments politics, policies and political cultures of the countries in particular regions of the world e.g. Latin America, Central and Western Europe, or China, Japan and Eastern Asia. Analysis of the political processes, government institutions, national and multi-national alliances, public policies, political economies, cultures, interest groups and leaders that shape the political landscapes of the particular region covered in a given semester constitutes the scope of each semester's class. A specific emphasis on the forces of political and economic change will be central to the course.

PO 337 Religions and Politics (3)

Describes the many current trends of religions and politics in the U.S. focusing on the major religions and their political teachings, considerable political power and activism in contemporary American politics, society and life. Prerequisite: 3 hours of political science, or consent of the instructor.

PO 343 Administrative Law (3)

The scope of the law as it applies to administrative agencies of the government. Focuses on the powers of agencies, administrative rule-making, regulatory activities, due process, and judicial review of administrative actions.

PO 346 Problems in Public Administration (3)

Problems and cases involved in administering public policy.

PO 371 Topics: American Politics and Government (3)

At the discretion of the instructor this course may investigate any aspect of the theories, institutions, contexts, or contemporary problems of American politics and government. Chief subject elements they include are the various branches of American government, federalism, constitutionalism, the roles of the press, public opinion, interest groups and non-governmental policy and service institutions, and the various policy fields of the government, e.g. economic, welfare, education, public health, and military defense.

PO 372 Topics: Comparative Politics (3)

At the discretion of the instructor this course may investigate any aspect of the theories, institutions, contexts, or contemporary problems of comparative politics. Chief subject elements may include regional international alliances, democratization, non-democratic governmental systems, international political economy, human rights issues, global trade, the international political implications of immigration, food production, environmental degradation and restoration, species migration, and climate change.

PO 373 Topics-International Relations (3)

At the discretion of the instructor this course may investigate any aspect of the theories, institutions, contexts, or contemporary problems of international relations. Chief subject elements may include theories of nation-state interaction, negotiation, and war, American foreign policy, and examining aspects of changing global hegemonic power.

PO 374 Topics-Public Administration (3)

At the discretion of the instructor this course may investigate any aspect of the theories, institutions, contexts, or contemporary problems of the field of Public Administration including but not limited to: the theories of bureaucratic administration; public law; personnel management and labor relations; organizational theory, management and behavior; public policy making, implementation, and evaluation; intergovernmental relations; leadership; public finance, budgeting and auditing.

PO 386 Directed Readings (1-3)

Readings in the selected fields of Political Science. May be taken until three credit hours are earned. This course is repeatable for another 1-3 hours if the topic areas differ. Prerequisite: Senior Political Science major or approval of the department head.

PO 390 Applied Political Research (3)

Introduction to utilization of basic research techniques in public administration and political science.

PO 391 Public Personnel Administration (3)

The principles and techniques involved in managing public employees. Particular attention is given to staffing, separation, and administrative functions related to public employment.

PO 393 Public Budgeting (3)

The politics of planning, financing, and managing governmental budgets at the national, state, and local levels.

PO 394 Public Management Techniques (3)

A study of the differences in the setting of the management of the various kinds of public organizations, and a survey of the basic techniques of strategic planning, fund-raising, decision-making, community inter-organization development, leadership, negotiations, mission definition, policy analysis and evaluation for maximum effectiveness in the public sector.

PO 395 Non-Profit Management (3)

A survey of the various forms and particular differences of the management and operation of Non-Profit organizations as distinguished from traditional government administration.

PO 396 Topics in Applied Research (3)

This is an expansion of the methodological foundation laid in PO 390, the required methodology course for PO majors. In this course the basic techniques and tools introduced in PO 390 are reviewed and expanded to include contemporary techniques in multi-variate analysis. Students will also be expected to develop and complete research inquiries into relevant quantitative and/or qualitative data, and prepare and present their analysis before a departmental audience. Prerequisite: PO 390 or by permission of the course instructor.

PO 397 Advanced Applied Research (3)

This is an advanced course in social science research methodology involving instruction and student participation in various aspects of the research enterprise as used by political campaign staffs, consultants, public agencies and other public policy investigative organizations. Possible areas of investigation include but are not limited to survey research design, questionnaire development and testing, focus group research, quasi-experimental research design and execution, qualitative research tools, multi-variate statistical analysis, OLS regression analysis, data description, and presentation formatting. Prerequisite: PO 390 or by permission of the course instructor.

PO 401 Program Evaluation Methods (3)

The most vital methods of evaluating the effects of programs and agency goals of government and non-profit agencies.

PO 450 Political Science Seminar (1)

Required course for all political science majors and should be taken spring of the student's junior year. Course is a review of major areas of political science and also helps students develop skills and gain insight into preparing for post-graduate study and careers. Student proficiency in the discipline will be measured by a national performance exit exam over areas of political science.

PO 671 Topics in American Politics and Government (3)

At the discretion of the instructor this course may investigate any aspects of the theories, institutions, contexts, or contemporary problems of American Politics and Government. Chief subject elements may include the various branches of American government, federalism, constitutionalism, the roles of the press, public opinion, interest groups and nongovernmental policy and service institutions, and the various policy fields of the government, e.g., economic, welfare, education, public health, and military defense. Prerequisites: Admission to MLS graduate program or consent.

PO 672 Topics in Comparative Politics (0-3)

At the discretion of the instructor this course may investigate any aspect of the theories, institutions, contexts, or contemporary problems of comparative politics. Chief subject elements may include regional international alliances, democratization, non-democratic governmental systems, international political economy, human rights issues, global trade, the international implications of immigration, food production, environmental degradation and restoration, species migration, and climate change. Prerequisites: Admission to MLS graduate program or consent.

PO 686 Directed Readings (1-3)

Readings in the selected fields of political science. May be taken until 3 credit hours are earned. Prerequisites: Admission to the MLS Program or consent.

Practical Nursing (PNS)

PNS 101 Foundations of Nursing (4)

This course utilizes the nursing standards of practice based on principles of biology, psychosocial, spiritual, and cultural to meet the needs of clients throughout the lifespan. Emphasis is placed on basic nursing skills, patient safety, and therapeutic communication. Concepts and skills are enhanced in subsequent courses.

PNS 115 Foundation of Nursing Clinical (2)

This course explores the art and science of nursing. In this clinical course emphasis is placed on the nursing process, cultural and spiritual awareness, communication, data collection, performance of basic nursing skills, and documentation. Principles of safe medication administration are introduced.

PNS 121 Strategies for Success (2)

This course is the first in a sequence of practical nursing courses and is designed as an introduction to the many facets of the college experience. Emphasis is placed on affecting student success including orientation to the academic arena, study skills, computer proficiency, skills procedures, and basic mathematic skills.

PNS 145 KSPN Fund of Pharm&Safe Med Ad (2)

This course provides an introduction to the principles of pharmacology. Emphasis is placed on nursing care related to the safe calculation and administration of medications to clients across the life span.

PNS 152 KSPN Nursing Care of Adults I (5)

This course focuses on the care of adult clients experiencing common medical/surgical health alterations with predictable outcomes. Emphasis is placed on the care of clients with alterations in cardiac output and tissue perfusion, oxygenation, regulation and metabolism, and integument. Principles of pre-and post-operative care and IV therapy are also addressed.

PNS 155 KSPN Nursing Care Ad I Clinic (2)

This course focuses on the care of adult clients with common medical/surgical health alterations. The clinical laboratory experience provides the student an opportunity to apply the theoretical concepts from Nursing Care of Adults I and implement safe client care in selected settings.

PNS 212 KSPN Nursing Care of Adults II (5)

This course focuses on the care of adult clients experiencing common medical/surgical health alterations with predictable outcomes. Emphasis is placed on the care of clients with alterations in cognition and sensation, mobility, elimination, immunity and hematology, and reproduction. Principles related to emergency preparedness are also addressed.

PNS 215 KSPN Nursing Care Ad II Clinic (3)

This course focuses on the care of adult clients with common medical/surgical health problems. The clinical laboratory experience provides the student an opportunity to build on the theoretical concepts from Nursing Care of Adults I and II and implement safe client care in selected settings. Students are given the opportunity to practice leadership skills while managing a caseload of clients.

PNS 221 Maternal Child Nursing (2)

This course focuses on pre-and post-natal maternal nursing care, as well as the care of children from infancy to adolescence. Emphasis is given to normal reproduction and frequently occurring biological, cultural, spiritual, and psychosocial needs of the child bearing and child rearing family.

PNS 226 Maternal Child Nrs Clinical (1)

This clinical course applies concepts from Maternal Child I. Emphasis is placed on the nursing process and meeting the basic needs of the maternal child client.

PNS 232 KSPN Care of Aging Adults (2)

This course is designed to explore issues related to the aging adults. Course content addresses the impact of ageism, alterations in physiological and psychosocial functioning, and the role of the practical nurse in caring for older adult clients across a continuum of care.

PNS 235 KSPN Mental Health Nursing (2)

This course explores basic concepts and trends in mental health nursing. Therapeutic modalities and client behavior management are discussed. Emphasis is placed on using the nursing process and meeting the basic human needs of the client with a mental health disorder.

PNS 242 KSPN Leadership, Roles & Issues (2)

This course provides orientation to leadership roles of the LPN and related responsibilities. It will introduce issues to the student they will encounter in the workplace.

PNS 245 NCLEX-PN (1)

This course is designed to provide a structured review of key content in the PN program. Test-taking strategies for NCLEX and requirements for NCLEX exam registration will be covered in this course. Review materials will be focused on foundations of nursing, care of the adult, mental health, pharmacology, maternal-child nursing, and leadership. The course will end with a comprehensive predictor to determine the student's readiness for the NCLEX exam.

Psychology (PY)

PY 100 Basic Concepts in Psychology (3)

An introduction to fundamental areas of Psychology including an overview of the concepts and methods of such areas as perception, learning, motivation, memory, development, personality, abnormal and social.

(General Ed Social Science. Critical and Creative Thinking.)

PY 151 Psychological Statistics (3)

The course will introduce students to descriptive and inferential statistical techniques used in contemporary psychology. The course will not only help students understand the mathematical and statistical concepts presented but also to assist in the application of the procedures. Prerequisite: PY 100 with a grade of C or better, or concurrent enrollment, and MA 104.

PY 209 Psychological Development through the Life-Span (3)

Psychological research and theories which describe and explain life-cycle stability and change in perception, cognition, language, psychomotor behavior, personality, interpersonal relationships, etc. Prerequisite: PY 100.

PY 210 Psychology of Infancy and Childhood (3)

Overview of theory and research on the psychological development of infants and children. Included are the development of sex roles, aggression, friendship, attachment to parents, perception, cognition, language, and moral reasoning and behavior. Prerequisite: PY 100.

(General Ed Social Science. Global Citizenship Ethics Div.)

PY 211 Adolescent Psychology (3)

Theory and research on adolescent personality, social and cognitive development, including problems of adjustment during the teenage years. Prerequisite: PY 100.

(General Ed Social Science. Global Citizenship Ethics Div.)

PY 212 Psychology of Adulthood and Aging (3)

Psychological theory and research on the changes and continuities of the adult years: personality, intelligence, memory, sex roles, interpersonal relationships, death and dying, and the psychological consequences of physical and health changes. Prerequisite: PY 100.

(General Ed Social Science. Information Literacy and Tech.)

PY 215 Consumer Psychology (3)

Survey of the psychological principles, theories, and methodology in learning, perception, motivation, attitude formation, personality, etc. as they affect consumer behavior. Prerequisite: PY 100.

PY 231 Abnormal Psychology (3)

A survey of the origins, processes, and diagnostic characteristics of representative syndromes of maladaptive behavior. Prerequisite: PY 100.

(General Ed Social Science. Global Citizenship Ethics Div.)

PY 234 Applied Behavior Analysis (3)

Elementary principles of learning & their application for managing the behavior of normal & abnormal populations in a variety of settings including schools, mental institutions, hospitals & businesses.

Prerequisite: PY 100.

PY 251 Research Methods in Psychology (3)

This course is an introduction to research methods in psychology. The goals of the course are for the student to learn how research is planned, carried out, communicated, and critiqued. Although only a few of students may pursue a career as a research psychologist, everyone is a consumer of research from psychology and other scientific disciplines. As such, a major goal of this course is to develop the capacity for critically evaluating "scientific evidence" that is communicated in journals, magazines, newspapers, and news programs. Prerequisite: PY 100.

PY 295 Special Topics (1-3)

Selected topics in psychology, announced in advance. Prerequisite: Specified for each topic.

PY 299 Psychological Forum (1)

Survey of applied issues in the profession of Psychology including an overview of employment and graduate school opportunities as well as vocational techniques for achieving those goals. Pass/Fail Only. Prerequisites: PY 100 and Sophomore Psychology Major.

PY 301 Principles of Learning (3)

Examines factors involved in acquiring and changing behaviors. Theories, historical and current models, and empirical findings in the field of learning and memory are explored. Prerequisite: PY 100.

PY 305 Sensation & Perception (3)

Focus on the anatomy and functions of sensory systems (vision, audition, olfaction, gustation, haptics). Emphasis on differences in theoretical backgrounds. Prerequisite: PY 100.

PY 306 Cognition (3)

A study of the intellectual structures and processes involved in the acquisition, storage, transformation, and use of knowledge. Prerequisite: PY 100.

(General Ed Social Science. Critical and Creative Thinking.)

PY 307 Physiological Psychology (3)

Examines the physiological basis of psychological phenomena (e.g., behavior). Concentrates on the function of biological systems on both general and specific behaviors. Prerequisite: PY 100.

PY 309 Theories of Personality (3)

Psychological theories of personality, including psychoanalytic, learning, and humanistic approaches. Prerequisite: PY 100.

PY 310 Social Psychology (3)

Theory and research on cognitive and behavioral responses to social stimuli. Prerequisite: PY 100.

PY 312 Psychology of Creativity (3)

Exploration of the many facets of creativity, including the nature, measurement, prediction, and cultivation of creativity, and its relationship to other cognitive abilities. Prerequisite: PY 100.

PY 314 Personality and Social Behavior (3)

Description of the characteristics that distinguish individuals and a review of the processes by which these characteristics are thought to be established and changed. Prerequisite: PY 100.

PY 317 Music and the Brain (3)

Study of the biological processes of active and passive music involvement and the resulting effect on individuals' learning, physical health, and mental well-being. Includes an experimental component. Prerequisite: EN 101 and BI 100 or higher; or PY 100; or consent of instructor.

(General Ed Social Science. Critical and Creative Thinking.)

PY 320 Psychological Testing and Measurement (3)

Theory and methods in psychological measurement, and their application to the construction, selection, and interpretation of psychological tests. Includes a survey of representative personality and ability tests. Prerequisite: PY 100.

PY 325 Community Psychology (3)

The study of community and organizational approaches to intervention and prevention strategies for mental health care, general health care, and various social problems. Prerequisite: PY 100.

PY 326 Health Psychology (3)

Introduction to the contributions of psychology to the prevention and treatment of illness, promotion and maintenance of health, and the improvement of the healthcare system. Topics include the role of stress and physiological factors in illness, chronic pain disorders and pain management, lifestyle and psychosocial influences on health, complementary and alternative methods for health promotion, and interpersonal factors involved in illness and health. Prerequisites: PY 100.

PY 327 Correctional Psychology (3)

An introduction to the field of Correctional Psychology. Applies psychological theories, principles and research to correctional issues. Topics include inmate behavior, women in prison, and psychological disorders found among offenders and prevention of fatigue, stress, and burnout in staff members. Prerequisite: PY 100 or consent.

PY 333 Counseling Psychology (3)

Major theories and techniques of psychological counseling. Prerequisite: PY 100.

PY 336 Internship (1-3)

Supervised experience in the application of psychological concepts and methods or volunteer work. Work in non-classroom situations required. Arrangements for enrollment must be completed prior to registration. (May be used to meet Senior Capstone Experience requirement). Pass/Fail Only. Prerequisites: One related advanced course and consent of instructor.

PY 338 Childhood Psychopathology (3)

An overview of psychological and behavioral disorders of children and adolescents, including their characteristics, origins, and treatment. Prerequisite: PY 231.

PY 339 Psychology of Sex and Gender (3)

This course will examine and analyze ways biology, culture, and society shape females' and males' identities, life experiences and other aspects of psychology. To study the psychology of sex and gender, we will examine historical views, physiology, socialization, friendships, sexuality, romantic relationships, childbearing and rearing, work, and mental and physical health. Prerequisite: PY 100.

PY 350 Introduction to Clinical Psychology (3)

Clinical Psychology as a science and a profession. The history, scope, ethics, theories, and methods of clinical psychology. Prerequisite: PY 100.

PY 353 Psychology of Everyday Life (3)

Applications of psychological theory and research in common life arenas, including family, work, and interpersonal relationships. Prerequisite: PY 100.

PY 356 Psychology of Marital and Family Processes (3)

An overview of psychological theories and research pertaining to family processes and the influence of the family on the psychological development of the individual. Topics to be covered include various psychological theories pertaining to family functioning, family dysfunction and divorce, and relationships between family functioning and psychopathology. Prerequisite: PY 100.

PY 385 From Classroom to Career (3)

Students work with the instructor and career services to hone professional development skills to transfer from the classroom into their careers and review academic literature relating to some aspect of professional development. This course helps to address APA's Professional Development guidelines for undergraduate psychology majors. Pre-requisite: PY 100.

PY 386 Advanced Research Design/Scientific Writing (3)

This course is primarily designed for students considering directed research and graduate school. This course will provide students with hands-on experience with regard to experimental research methods. Students will gain the skills necessary to conduct a literature review that will then be used to design, conduct, and analyze a novel empirical investigation. This course will enhance student's writing skills, with an emphasis on scientific writing using APA format. Prerequisites: PY 151 and PY 251 with grades of "C" or better; 3.0 cumulative GPA.

PY 387 History and Systems of Psychology (3)

An examination of philosophical and empirical roots that led to the development of the discipline of psychology and the historical progression of ideas central to modern psychology. (May be used to meet Senior Capstone Experience requirement). Prerequisite: Psychology Senior or consent.

PY 388 Directed Collaborative Research (3)

Supervised small group research project(s) designed to provide the opportunity to work collaboratively with peers. (May be used to meet Senior Capstone Experience requirement). Prerequisites: PY 386 and consent of instructor.

PY 389 Independent Study (1-3)

Individual problems planned and executed by the student under supervision. (May be used to meet Senior Capstone Experience requirement.) May be repeated up to a total of 6 hours. Prerequisite: Consent of instructor.

PY 390 Directed Research (1-3)

Supervised independent research involving gathering, analysis, and reporting of empirical data. This course serves as a culminating experience for Bachelor's degree students and may be used to meet the Senior Capstone Experience requirement. May be repeated up to a total of 6 hours. Prerequisites: PY 386 and consent of instructor.

PY 395 Special Topics (1-3)

Selected topics in psychology, announced in advance. Can be repeated for credit under different topic areas. Prerequisite: Specified for each topic.

PY 602 Advanced Physiological Psychology (3)

Critical issues within cognitive and behavioral neuroscience are discussed, including neuronal physiology, functional neuroanatomy, and methods used in psychophysiological research. Special emphasis is placed on biological foundations of psychopathology and psychopharmacology. Prerequisite: Consent.

PY 603 Advanced Health Psychology (3)

Advanced health psychology examines how biological, psychological, and social factors interact with and affect the efforts people make in promoting good health and well-being as well as preventing illness. Advanced study includes reviewing and discussing contemporary empirical research related to the science and practice of health psychology. Prerequisite: Graduate standing or consent of instructor.

PY 610 Intermediate Statistics (3)

Survey of basic statistical principles including parametric and non-parametric hypothesis testing techniques, correlation, and an introduction to computer statistical packages. Prerequisite: Consent.

PY 611 Graduate Research Design (2)

Advanced, detailed study of research design, including experimental, quasi-experimental, and non-experimental designs. Issues of ethics, sampling, reliability, validity, and analysis will be discussed. Students will also develop skills in critiquing and reporting scientific research. Prerequisite: Consent.

PY 612 Scientific Writing (1)

Scientific writing is a unique form of writing and vastly different from the manner students typically write. Students in this course will be exposed to the various nuances that define APA style scientific writing, be exposed to the common errors made when writing scientifically, and will develop their skill in writing in a scientific manner. Prerequisite: PY 611.

PY 615 Counseling Skills and Interviewing Techniques (1.5)

The purpose of this course is to assist students in developing necessary skills to be an effective interviewer/therapist. This will be done through readings, self-exploration, and practicing therapeutics skills of motivational interviewing and other therapeutic and information-gathering techniques. Prerequisite: Consent.

PY 625 Advanced Psychopathology (3)

Theory, research, and clinical approaches to problems of adulthood and childhood. Prerequisite: Consent.

PY 631 Psychological Assessment of Adults Practicum (1.5)

This practicum, which is a co-requisite of PY 632 Psychological Assessment of Adults, is designed to provide students with the applied skills required to competently administer, score and interpret various adult psychological assessments. Students will also utilize related information gathering techniques toward the goal of validly and reliably assessing the intellectual, personality, and, to a lesser degree, social, emotional, and behavioral functioning of adults. Prerequisite: Departmental permission.

PY 632 Psychological Assessment of Adults (3)

The purpose of this course is to provide students with the fundamental skills and knowledge necessary to choose, administer, and interpret various instruments and information gathering techniques with the goal of assessing the intellectual, social, emotional, and behavioral functioning of adults. Prerequisite: Graduate standing.

PY 633 Psychological Assessment of Children (3)

The purpose of this course is to provide students with the fundamental skills and knowledge necessary to choose, administer, and interpret various instruments and information gathering techniques with the goal of assessing the intellectual, social, emotional, and behavioral functioning of children. Prerequisite: Graduate standing.

PY 634 Psychological Assessment of Children Practicum (1.5)

This practicum will focus on the application of child and family assessment skills acquired in PY 633 Psychological Assessment of Children. The practicum will involve a combination of lecture, discussion, role plays, supervision, and practical experience with clients in the Psychological Services Clinic. Prerequisite: Graduate standing.

PY 635 Ethics Psychological Practice (2)

This course will explore contemporary aspects of professional practice germane to master's level psychologists. The primary focus will be on the understanding and application of the APA Ethics Code when providing psychotherapy and psychological assessment services. Special topics such as requirements for licensure and career options may also be explored. Prerequisite: Graduate Standing.

PY 637 Diversity Issues Treatment & Assessment (2)

Introduction to diversity issues in counseling and psychological/educational assessment, including culture, gender, language, and related issues. Training in models for providing effective psychological services to clients, taking into account their unique background. Prerequisite: Graduate standing.

PY 640 Introduction to Psychotherapy Techniques (3)

Theory and practice of basic interviewing and therapy skills, with an emphasis on the cognitive behavioral approach for treatment of anxiety disorders. Must be taken with PY 641. Prerequisites: Graduate standing.

PY 641 Psychotherapy Practicum I (1.5)

Students are expected to demonstrate and master a variety of clinical techniques involving therapeutic skills being taught concurrently in PY 640. Prerequisite: Concurrent enrollment in PY 640.

PY 653 Psychological Assessment of Children (3)

The purpose of this course is to provide students with the fundamental skills and knowledge necessary to choose, administer, and interpret various instruments and information gathering techniques with the goal of assessing the intellectual, social, emotional, and behavioral functioning of children. Prerequisite: Graduate standing.

PY 670 Individual Adult Psychotherapy (3)

Theory and practice of psychotherapeutic intervention skills with an emphasis on interpersonal, cognitive, and brief therapy approaches for treatment of mood disorders. Must be taken concurrently with PY 671. Prerequisites: PY 630 and PY 640.

PY 671 Psychotherapy Practicum II (1.5)

Students are expected to demonstrate and master a variety of clinical techniques involving therapeutic skills being taught concurrently in PY 670. Prerequisite: Concurrent enrollment in PY 670.

PY 680 Psychological Assessment: Personality and Behavior (3)

Research bases and clinical applications of objective psychological instruments, projective techniques, and behavioral assessment designed to measure child, adolescent, and adult personality, affect, and psychopathology. Prerequisite: Consent.

PY 690 Group Therapy: Theory & Application (2)

This course provides foundational knowledge and experience to support the facilitation of group approaches to psychotherapy. Didactic instruction will be supplemented with an experiential training component. Prerequisites: Consent.

PY 691 Group Therapy Practicum (1)

The faculty is committed to the belief that the integration of theoretical knowledge and practical experience is an integral part of the curriculum. This practicum will focus on application of group therapy theory and skills acquired in PY 690 Group Therapy: Theory and Application. PY 691 will involve a combination of lecture, discussion, and practical experience with clients in the Psychological Services Clinic. Prerequisite: PY 690.

PY 700 Child, Family and Marital Therapy (3)

Theory and practice of interventions in marital, family, and child management problems. Prerequisite: PY 670.

PY 701 Child, Marital, and Family Therapy Practicum (1.5)

This practicum will focus on the application of child, family and marital therapy theory and skills acquired in PY 700 Child, Family, and Marital Therapy. The practicum will involve a combination of lecture, discussion, role plays, and practical experience with clients in the Psychological Services Clinic. Concurrent enrollment in PY 700 is required. Prerequisite: Graduate standing.

PY 720 Seminar in Psychology (2)

Selected topics of relevant psychological, clinical, and professional issues. May be repeated with different topics. Prerequisite: Consent.

PY 780 Internship (1-4)

Field training experience oriented toward development of skill in assessment and therapeutic intervention, consultation experiences, preventive applications, and group and family interventions. Repeated to a maximum of 12 hours toward the degree. Prerequisite: Admission to candidacy status and consent of instructor.

PY 795 Directed Research (1-3)

Independent supervised research. Does not count toward graduation. Prerequisite: 6 completed hours in PY 799.

PY 799 Thesis (1-3)

Independent supervised research. Repeated to a maximum 6 credit hours toward degree. Prerequisite: Admission to candidacy status.

Reading (RD)

RD 484 Reading in Content Areas (3)

A study of the specific reading skills relating to the various disciplines found in middle and secondary schools. This course addresses the philosophy that the effective content teacher includes the teaching of reading as an essential element for affecting the content. Emphasis is given to the importance of pre and post assessment of students' reading skills and abilities, comprehension strategies, thinking and study skills, readability of materials and collateral reading. This course is required for all middle school and secondary school majors in the State of Kansas. This course may be taken for undergraduate and graduate credit. Prerequisite: Admission to teacher education.

RD 610 Literacy/ESOL Instructional Approaches (3)

This course is designed to investigate theories and practices of reading instruction with the goal of improving literacy instruction in the classroom. Students learn various current theories of the reading and writing processes as well as the internal and external variables that affect the acquisition of literacy skills. From these theories students are encouraged to adopt a personal view of the literacy process upon which instructional decisions as critical and reflective professionals in classrooms with diverse cultural and learning needs can be made. Current literacy research that supports instructional decision-making for native English speakers and ESOL learners will be infused throughout the course. Theory, which forms the basis for the course, is balanced with concern for practical applications in the classroom. Prerequisite: Graduate Standing.

RD 612 Literature for Children, Adolescents, and Young Adults (3)

This course examines literature across P-12 levels with an emphasis on how literature can be used in the development of literacy skills, including with learners whose native language is not English. Students will explore a variety of literature, including multicultural books, picture books, award winning books, poetry, and non-fiction books. Students will explore trends and issues in literature, including censorship, gender bias, cultural representation, as well as others. Prerequisite: Graduate Standing.

RD 616 Teaching Writing in Classrooms (3)

Current approaches to teaching writing based on whole language philosophy across a K-9 curriculum. Instructional strategies for improving writing skills through a writing workshop and methods of evaluating writing including portfolio assessment will be emphasized. Explores current issues and recent research findings relating to teaching writing.

RD 618 Integrating Language Arts in Classrooms (3)

Current approaches to teaching communication skills based on whole language philosophy across a K-9 curriculum. Instructional strategies for developing oracy and literacy skills are based on an integrated language arts perspective and include the development of thematic planning and reading workshop. Explores current issues and recent research findings relating to teaching language arts.

RD 619 Literacy for Young Adults (3)

Study of books read by young adults between 12 and 18. Covers history of young adult literature, the relationship between children's and young adult literature, censorship and selection, and teaching methods.

RD 620 Literacy and ESOL Assessment (3)

Principles and techniques of assessment of literacy skills of learners whose native language is English and in ESOL settings. Students will examine purposes for assessment, types of assessments (including formal and informal assessment procedures), analyzing assessment data, and evaluating learners' strengths and areas of need to determine goals for instruction. Prerequisite: Graduate Standing.

RD 622 Literacy/ESOL Instructional Strategies (3)

The scope of this course includes the principles and techniques of literacy instruction for learners whose native language is English and for ESOL learners with diverse learning needs. Current research in literacy provides the basis for understanding the needs of learners and the best strategies for assisting them. Focus on learning will be on making critical and reflective decisions in selecting the most appropriate strategies, resources, and materials for readers who exhibit specific strengths and challenges in reading. Prerequisite: Graduate Standing.

RD 624 Practicum in Reading (3)

Supervised clinical experience with learners who exhibit reading problems. Students administer tests, analyze data, determine reader's strengths and weaknesses, develop an instructional plan, select and implement appropriate strategies and materials, and assess progress towards instructional goals. Prerequisites: RD 610, RD 620, and RD 622.

RD 626 The Literacy/ESOL Specialist (3)

A seminar in the role of the literacy specialist and ESOL specialist in elementary, middle, or secondary school settings with emphasis on the knowledge and skills necessary to think and act as a literacy/ESOL professional with students, teachers, paraprofessionals, administrators, professional colleagues, and the community. This course will focus on federal, state, and local literacy/ESOL programs, current research and curricular practices, historical and current trends and issues in the field of literacy and ESOL, and organizations which support and advocate for literacy, ESOL learners, and literacy/ESOL specialists.

RD 628 Linguistics, Language Development, and Assessment (3)

Principles of the processes of language development including factors which affect language development, the stages of language acquisition, and the relationship between oral language and literacy. Focus on developing assessment procedures and instructional strategies to facilitate language development. The course also focuses on language and linguistics in ESOL settings, including first and second language acquisition processes; English phonology, morphology, syntax, and discourse; and implications for teaching English language learners. Prerequisite: Graduate Standing.

RD 630 Literacy/ESOL Practicum (3)

A supervised clinical experience in which students work with learners to improve their literacy skills. Students administer assessments, analyze data, determine learners' strengths and weaknesses, develop instructional plans, select and implement appropriate strategies and materials, and assess progress towards instructional goals using skills developed as critical and reflective professionals. Appropriate conduct is maintained with parents and classroom teachers with oral or written reports as deemed appropriate. Prerequisites: RD 610 and RD 612 and RD 620 and RD 622 and RD 628

RD 656 Advanced Children's Literature (3)

Advanced survey and analysis of the literature written for children through middle school. A variety of literary forms are explored. Emphasis on evaluation and development of specific strategies to enhance reader comprehension and appreciation. Emphasis also on incorporating children's literature in instruction across the curriculum.

RD 684 Literacy Instruction in the Middle and Secondary Content Areas (3)

A study of the specific literacy skills relating to the various disciplines found in middle and secondary schools. Emphasis is given to the importance of text complexity and readability, academic vocabulary acquisition, comprehension skills, use of text-based evidence, critical & analytical reading and writing, reading strategies (both universal and discipline specific), and working with ESOL learners. Prerequisite: Graduate Standing.

Religious Studies (RG)

RG 101 Introduction to Religion (3)

This course serves as an introduction to the academic discipline of religious studies. We will explore the human side of religion through the careful study of contextualized religious communities. Along the way, we'll develop a vocabulary for describing and comparing religious communities, and we'll learn some scholarly approaches to explaining why people are religious. Prerequisite: None.

(General Ed Humanities. Global Citizenship Ethics Div.)

RG 102 World Religions (3)

Study of the teachings and practices associated with some so-called "world religions" (including Islam, Christianity, Buddhism, Hinduism, and Yoruba) through ethnographies, films, TV clips, novels, and site visits, with special emphasis on local contexts and on interrogating the very concept of "world" religions. Prerequisite: None.

(General Ed Humanities. Global Citizenship Ethics Div.)

RG 103 Introduction to the Bible (3)

An introduction to the academic study of the Bible, including 1) biblical and non-biblical ancient texts in their historical contexts and 2) the historical processes that led to the creation of different canons of the Bible among Jews and Christians. Prerequisite: None.

(General Ed Humanities. Critical and Creative Thinking.)

RG 105 Introduction to Jewish Scriptures (3)

We will study a selection of ancient Jewish scriptures, including some that were eventually included in the Hebrew Bible (the Christian Old Testament) and some that were not, focusing on the specific political reasons that people had for writing these books and spreading them within their communities. Prerequisite: None.

(General Ed Humanities. Global Citizenship Ethics Div.)

RG 106 Introduction to Christian Scriptures (3)

Study of a selection of ancient scriptures read and/or written by ancient Christian communities, focusing on how it was determined which books would be included in the canonical New Testament. Prerequisite: None.

(General Ed Humanities. Global Citizenship Ethics Div.)

RG 110 Special Topics/Religion (1-3)

Topics will vary from semester to semester and will be announced in advance. May be repeated for credit when topics vary.

RG 207 Existence of God (3)

An elementary course in Philosophy and Religion focusing upon the specific rational arguments which have been advanced for and against the existence of a supreme being. Prerequisite: EN 101 or EN 102.

(General Ed Humanities. Critical and Creative Thinking.)

RG 300 Special Topics/Religion (2-3)

Topics will vary from semester to semester and will be announced in advance. May be repeated for credit when topics vary. Prerequisite: three hours of Religion or PH 302.

RG 301 Prophets and Prophetic Books in Ancient Judaism (3)

In this course, ancient Jewish prophetic literature is examined, including biblical books like Isaiah and extra-canonical traditions like Enoch. Prophecy is studied against the backdrop of ancient Near Eastern divination, and focus is on the role of prophetic books (a uniquely Jewish phenomenon) in the shaping of early Judaism. Prerequisite: three hours of Religion.

RG 303 The Historical Jesus? (3)

Two thousand years ago, a Galilean peasant upended the world. Who was he? How would we know, when he himself wrote nothing and his followers told his story decades later from their own perspectives? In this course, we re-examine primary literary sources and archaeological data in an attempt to reconstruct the life of Jesus of Nazareth. In the process, we interrogate the ways that our quests for the historical Jesus are also quests to understand our own distinct historical moment(s). Prerequisite: three hours of Religion.

RG 305 The Apostle Paul as Jew and as Christian (3)

Arguably, no figure had more of an impact on the shape of Christianity than the Apostle Paul—not even Jesus of Nazareth himself. Yet Paul lived and died thinking of himself as a Jew. In this course, the historical Paul is reconstructed through his authentic writings, and then the ways that Christians have built on Pauline traditions in antiquity, during the Reformation, and into the 21st Century are examined. Prerequisite: three hours of Religion.

RG 331 Understanding Religion (3)

What do we mean when we call something "religion"? Who decides what is and is not "religion"? This course examines various approaches to the academic study of religion, focusing on current disciplinary debates over description versus explanation, insider/outsider dynamics, and the heuristic value of "religion" when applied to non-Western traditions. Prerequisite: Religious Studies Major, or consent of the instructor.

RG 386 Special Study (1-3)

Individual study of specialized subjects pertaining to religion. May be repeated for credit. Prerequisites: nine hours of Religion and permission in advance by the professor with whom the student desires to work.

RG 398 Senior Thesis Preparation (3)

Independent research in preparation for a senior thesis. Students will complete preliminary research in the area of their senior thesis and prepare a thesis proposal. In addition, students will complete the portfolio project which asks them to submit a folder containing religious studies papers from previous courses along with their reflection upon their development over time in writing such papers. The proposal completed in RG 398 may not be or have been submitted for credit in any other course. Prerequisite: Senior Religious Studies Major

RG 399 Senior Thesis (3)

Independent research, writing and defense of a substantial paper, under faculty supervision. Work completed in RG 398 and RG 399 may not be or have been submitted for course credit in any other course. Prerequisite: RG 398.

RG 600 Special Topics in Religion (1-3)

Topics will vary from semester to semester and will be announced in advance. May be repeated for credit when topics vary. Prerequisites: 3 hours of Religion or PH 302.

RG 686 Special Study (1-3)

Individual study of specialized subjects pertaining to religion. May be repeated for credit. Prerequisite: nine hours of Religion and permission in advance by the professor with whom the student desires to work.

Social Work (SW)

SW 100 Introduction to Social Work & Social Welfare (3)

The purpose of the course is to introduce interested students to the basic mission, values and ethics, knowledge base, methods, and services of the social work profession. An overview of the United States' historical response to human needs and the current status of public social welfare policy will be explored. Prerequisite: None.

SW 250 General Social Work Perspectives (3)

This course presents an overview of Generalist Social Work Perspectives. The emphasis of this course will be on introducing students to the integration of biological, psychological and social contexts in order to prepare them for upper-level course work in social work theories and practice. Prerequisite: None.

SW 325 Micro Human Behavior & Social Environment (3)

The purpose of this course is to develop knowledge about human behavioral interactions, using a person-in-environment perspective. Bio-psycho-social aspects of individual, family and group development and interactions will be emphasized. This course will provide the foundation for developing direct social work practice skills. Prerequisites: SW 100 and SW 250.

SW 326 Macro Human Behavior & Social Environment (3)

The purpose of this course is to develop knowledge about human interactions relevant to large groups, organizations, communities, cultures, societies, and other, larger systems. The emphasis will be to build upon the person-in-environment perspective, and to expand this model to encompass the effects of larger systems on individual functioning. This course will provide the foundation for developing social work macro-level practice skills. Prerequisites: SW 100 and SW 250.

SW 350 Social Policy and Programs (3)

The major purpose of this course is to develop the conceptual knowledge of policy formulation, and the content, values, and process elements necessary for conducting social policy analysis. Prerequisites: SW 100 and SW 250.

SW 352 Micro Social Work Practice (3)

The major purpose of this course is to prepare social work students for their field practicum work. The emphasis is on the development of working knowledge of the generalist practice model, interactional theories, and methods of facilitating change. In addition, there will be an emphasis placed on developing skills for providing social work services. For social work majors only. Prerequisites: SW 100 and SW 250.

SW 353 Macro Social Work Practice II (3)

This second practice course will emphasize more advanced theoretical material, and the application of the generalist practice model to more complex systems. Skill development will be emphasized for assessment of client systems, and delivery of social work services. For social work majors only. Prerequisites: SW 100 and SW 250.

SW 354 Seminar & Field Practicum I (6)

This course integrates the Field Practicum component and the Practice Seminar. Students will spend 16 hours per week in their field placements, with direct supervision by a licensed professional social worker. Opportunities for engaging in generalist social work practice at micro, mezzo and macro levels will be provided. In addition, students will attend a three-hour seminar each week. The seminar will emphasize the integration of their field experiences with the generalist practice model, and theories of change. Students must make application for the field in their junior year by the posted deadlines. Concurrent enrollment in SW 425 Pre-BSW Practicum Workshop is required. The culmination of the BSW program is the Field Practicum Placement. Two consecutive practicum/seminar courses are required and constitute this culminating educational experience. Prerequisites: SW 100, SW 250, SW 325, SW 326, SW 352, SW 353, and a 2.5 cumulative grade point average; admission to the BSW program; and a practicum-director-approved placement in a Field Practicum.

SW 355 Seminar & Field Practicum II (6)

This is the second semester of the field experience and field seminar required for social work majors. The culmination of the BSW program is the Field Practicum Placement. This Practicum requires summative reflection, serving as a culminating experience for Bachelor's degree students. Two consecutive practicum/seminar courses are required and constitute this culminating educational experience. Prerequisites: SW 100, SW 250, SW 325, SW 326, SW 352, SW 353, SW 354; admission to the BSW program; and a practicum director-approved placement in a Field Practicum.

SW 356 Social Work Practice in Healthcare (3)

This course introduces students to generalist social work practice in healthcare settings, including the technological, social, political, ethical, and financial factors impacting patient care. This course emphasizes the relevant theories and models for healthcare practice at the micro, mezzo, and macro levels. Prerequisite: None.

SW 357 Inclusive and Competent Social Work Practice in Healthcare (3)

The purpose of this course is to prepare social workers for generalist healthcare practice with clients with diverse backgrounds. The emphasis is on inclusive and culturally competent social work practice, to include the development of cultural awareness, humility, and knowledge about health and healthcare, as well as issues that can affect inclusive access, such as language and literacy, physical and cognitive ability, gender and sexuality, and macro, policy, and legal factors. Prerequisite: None.

SW 358 Family Decisions in Healthcare (3)

The purpose of this course is to provide overall theoretical information about how families function and communicate during the process of health and long-term care decision-making. This course will provide overall generalist social work application skills and addresses interdisciplinary communication skills critical for working in a variety of healthcare settings. Prerequisite: None.

SW 359 Human Sexuality and Social Work Practice (3)

The major purpose of this course is to prepare social work students to explore the physiological, psychological, and socio-cultural variables associated with sexual identify, sexual orientation, sexual behavior, as well as to introduce a variety of theories explaining sexual behavior, development of sexual norms, and gender fluidity. Students will develop an understanding and appreciation of all aspects of human sexual behavior. Prerequisite: None.

SW 360 Geriatric Social Work Practice (3)

The purpose of this course is to provide students with an overview of gerontological social work in generalist practice with an emphasis on the principles of practice, the application of research, and the formulation of policies as they relate to older adults. The course will define the role of the social worker from a gerontological perspective and will introduce considerations for special populations that are most vulnerable: aging people of color, the disabled, and gay and lesbian aged. Prerequisite: None.

SW 361 Independent Study (1-3)

Social Work majors may pursue an independent research project approved by the BSW Program Director in consultation with the Department Chair. Independent Study may not be used in place of any courses required of the social work major. Independent Study courses must meet equivalencies to Federal definition of a credit hour. Prerequisites: SW 100 and SW 250.

SW 362 Social Work Research I (3)

Introduces students to the basic principles of generalist quantitative social work research, including ethics, problem formulation, and quantitative research designs and methodologies. Emphasis is placed on becoming a responsible consumer of quantitative research as well as exploring quantitative evaluation of programs and outcomes of practice. Prerequisites: SW 100 and SW 250.

SW 363 Social Work Research II: App (3)

Introduces students to the basic principles of generalist qualitative social work research, including ethics, problem formulation, and qualitative research designs and methodologies. Emphasis is placed on becoming a responsible consumer of qualitative research as well as exploring qualitative evaluation of programs and outcomes of practice. Prerequisites: SW 100 and SW 250.

SW 390 Contemporary Issues in Social Work (1-3)

A series of courses are designed to supplement the core curriculum. Each of these four required elective courses will focus on a contemporary issue, and will emphasize the integration of core social work values and ethics, the generalist practice model, and theories of human interactions and change. Specific courses taught under this course number include, among other courses: Child Welfare, Social Work and the Law, Multicultural Social Work, Case Management, and Social Work Policy Practice.

SW 395 Social Work International Service (3)

This course uses an international lens to provide BSW students the opportunity to learn about social work practice, including the effects of historical, social, psychological, physical, and environmental conditions on well-being at the micro, mezzo, and macro levels. The course will emphasize ways that culture and diversity intersect with social work practice. A portion of this course includes international travel.

SW 425 Pre-BSW Practicum Workshop (0)

In this mandatory one-day workshop, BSW students will be oriented to the field practicum, expectations regarding professional comportment, duties/responsibilities in completing tasks, required practicum program paperwork, and other aspects of the practicum experience. Concurrent enrollment in SW 354 Seminar and Field Practicum is required. Prerequisites: SW 100, SW 250, SW 325, SW 326, SW 352, SW 353, and a 2.5 grade point average overall; admission to the BSW program; and a practicum-director-approved placement in a Field Practicum.

SW 606 Micro Human Behavior in Social Environment (3)

Presents a bio-psycho-social perspective on the developmental processes of human personality and behavior. It also examines human interactions within the social environment, concentrating on interactions occurring within families and groups, while emphasizing the ecological perspective. Fall semester only. Prerequisites: Admitted MSW students only or consent.

SW 607 Macro Human Behavior in Social Environment (3)

Students are exposed to concepts and substantive information about persons-in-environment transactions. Emphasis is placed on the structure and dynamic processes of organizations, communities and societies. Spring semester only. Prerequisites: Admitted MSW students only or consent.

SW 608 Foundations of Social Policy (3)

The major purpose of this course is to prepare social work students as social work practitioners to serve as knowledgeable and committed participants in efforts to achieve social and economic justice through social policies and social programs. An important element of this course is the development of a conceptual map to focus the student's ability to critically analyze social policies and develop broad understanding of the dynamics of social policy formulation. In addition, some course content will focus on developing familiarity with the practice skills involved in policy analysis and advocacy. Throughout the course, significant consideration is placed on the actual delivery of social services and social work practice in micro, mezzo, and macro dimensions. Fall semester only. Prerequisites: Admitted MSW students only.

SW 609 Social Policy and Advocacy (3)

The primary purpose of this course is to prepare social work students to serve as knowledgeable and committed participants in efforts to achieve social and economic justice through advocacy in social policies and programs. A major feature of this course is the emphasis placed on developing knowledge about state legislative procedures and processes in the formulation of important social policies that impact the consumers of social work services. Students will observe the dynamic legislative process and conduct analysis of specific proposals (bills) currently before the state legislature in "real time." Beyond a mere theoretical understanding of this process, an expected outcome of this course is for the student to develop practical skills in policy analysis and social advocacy. Spring semester only. Prerequisites: Admitted MSW students only or consent.

SW 621 Quantitative Social Work Research (3)

Introduces students to the basic principles of quantitative social work research, including ethics, problem formulation, and quantitative research designs and methodologies. Emphasis is placed on teaching students to become critical thinkers and responsible consumers of quantitative research. In addition, students will learn how to utilize various quantitative research strategies and methodologies to evaluate social service programs and practice outcomes. Fall semester only. Prerequisites: Admitted MSW students only or consent.

SW 622 Qualitative Social Work Research (3)

Introduces students to the basic principles of qualitative social work research, including ethics, problem formulation, and qualitative research designs and methodologies. Emphasis is placed on teaching students to become critical thinkers and responsible consumers of qualitative research. In addition, students will learn how to utilize various qualitative research strategies and methodologies to evaluate social service programs and practice outcomes. Spring semester only. Prerequisites: Admitted MSW students only or consent.

SW 640 Fundamentals of Social Work Practice (3)

Presents concepts and skills of generalist social work practice and includes the ecological and empowerment framework. Attention is given to preparation for the clinical concentration. Included is an examination of multi-level systems practice, and development of cultural competency is emphasized and integrated throughout the course. MSW students must complete this course or its equivalent before enrolling in SW 690, SW 691, and SW 692. Fall semester only. Prerequisites: Admitted MSW students only or consent.

SW 680 Clinical Social Work Practice in Healthcare (3)

This course introduces students to clinical social work practice in healthcare settings, including the technological, social, political, ethical, and financial factors impacting patient care. This course emphasizes the relevant theories and models for healthcare practice at the micro, mezzo, and macro levels. Prerequisite: Enrolled MSW students only.

SW 681 Inclusive and Competent Social Work Practice in Healthcare (3)

The purpose of this course is to prepare social workers for clinical health care practice with clients with diverse backgrounds. The emphasis is on inclusive and culturally competent social work practice, to include the development of cultural awareness, humility, and knowledge about health and healthcare, as well as issues that can affect inclusive access, such as language and literacy, physical and cognitive ability, gender and sexuality, and macro, policy, and legal factors.

SW 682 Family Decisions in Healthcare (3)

The purpose of this course is to provide overall theoretical information and application about how families function and communicate during the process of health and long term care decision-making. This course allows students to develop clinical skills that assist families in making these difficult end of life and healthcare decisions. This course also addresses interdisciplinary communication skills and how these skills are necessary for working with others who have different professional backgrounds in a variety of healthcare settings.

SW 683 Human Sexuality and Social Work Practice (3)

The major purpose of this course is to provide a theoretical background for social work students to explore the physiological, psychological, and socio-cultural variables associated with sexual identify, sexual orientation, sexual behavior, as well as introducing a variety of theories explaining sexual behavior, development of sexual norms, and gender fluidity. Students will develop an understanding and appreciation of all aspects of human sexual behavior, and will then also learn theoretically-based clinical skills that they can apply in a wide variety of social work settings.

SW 685 Dimensions of Professional Social Work (3)

In this course, students will become familiar with the history and development of the social work profession, the history of social welfare, the work ethic of the social work profession, the various roles and related responsibilities of social workers in the many different fields of practice that the profession embraces, career opportunities in social work nationally and internationally, the practical aspects of the NASW Code of Ethics, and selected portions of state rules and regulations that govern the practice of social work in Kansas. In addition, students will have an opportunity to develop sensitivity to, and respect for, human diversity and the value base that underlies the social work professions. An advanced standing student may be required by the MSW Program Director to complete this course. MSW students must complete this course or its equivalent before enrolling in SW 690, SW 691, and SW 692. Prerequisites: Admitted MSW students only or consent. Required of all regular standing MSW students who have not taken an introductory course to social work and social welfare at the undergraduate or graduate level.

SW 690 Pre-Generalist Practicum Workshop (0)

In this mandatory one day workshop, regular standing MSW students will be oriented to the generalist field practicum, expectations regarding professional comportment, duties/responsibilities in completing tasks, required practicum program paperwork, and other aspects of the practicum experience. Concurrent enrollment in SW 650, SW 791 and SW 651 is required. Spring semester only.

SW 691 Generalist Practicum I (3)

Students will gain supervised generalist level social work experience in selected community agencies. A minimum of 16 hours per week (240 clock hours) will be spent in mastering the knowledge and skills for multi-level client assessment, planning, intervention and evaluation. Concurrent enrollment in SW 690 and SW 692 is required. Spring semester only. Prerequisites: Admitted MSW students only, completion of at least 12 graduate hours in the MSW foundation including SW 640, and a practicum-director-approved placement in a field practicum.

SW 692 Generalist Practice Seminar I (3)

This seminar, taken concurrently with SW 691, provides students with the opportunity to integrate academic course-work, including values and ethics, with their field practicum experiences. Concurrent enrollment in SW 690 and SW 691 is required. Spring semester only. Prerequisites: Admitted MSW students only, completion of at least 12 graduate hours in the MSW foundation including SW 640, and a practicum-director-approved placement in a field practicum.

SW 693 Generalist Practicum II (3)

This Generalist practicum provides the student further opportunities to gain supervised social work experience in selected community organizations and programs for a minimum of 20 hours per week (160 clock hours). The focus is on refining generalist practice skills, and applying them to more complex social work situations, with multi-level systems. Concurrent enrollment in SW 694 is required. Summer only. Prerequisites: Admitted MSW students only and completion of SW 690, SW 691, and SW 692.

SW 694 Generalist Practice Seminar II (3)

This seminar, taken concurrently with SW 693, provides students with further opportunities to integrate academic coursework with the practice of generalist social work. Concurrent enrollment in SW 693 is required. Prerequisites: Admitted MSW students only and completion of SW 690, SW 691, and SW 692.

SW 700 Clinical Assessment and Diagnosis (3)

Presents an in-depth analysis of assessment techniques and diagnostic tools, including the DSM-IV, guided by social work values and ethics. Focus is on developing the knowledge and skills for competent, multi-cultural assessment of client functioning, within societal and environmental contexts. Prerequisites: Admitted MSW students only and completion of all MSW foundation coursework or consent.

SW 705 Clinical Social Work Practice with Individuals (3)

Students are expected to develop an understanding of theories, and development of skills, relevant to assessment and intervention with individuals, consistent with social work values and ethics. Special consideration is given to developing cultural competency and providing services to individuals who are vulnerable and/or oppressed. Prerequisites: Admitted MSW students only and completion of all MSW foundation coursework.

SW 706 Clinical Social Work Practice with Families (3)

Students are expected to develop an understanding of theories, and development of skills, relevant to assessment and intervention with families, consistent with social work values and ethics. Special consideration is given to developing cultural competency and providing services to family units who are vulnerable and/or oppressed. Prerequisites: Admitted MSW students only and completion of all MSW foundation coursework.

SW 707 Clinical Social Work Practice with Groups (3)

Students are expected to develop an understanding of theories and development of skills relevant to assessment and facilitation of small group interactions, consistent with social work values and ethics. Special consideration is given to developing cultural competency and providing services to vulnerable populations. Prerequisites: Admitted MSW students only and completion of all MSW foundation coursework.

SW 777 Continuous Enrollment (1-3)

This course is to allow students additional time to complete Capstone, Thesis or Practicum requirements. Prerequisites: Instructor Permission

SW 779 Independent Study (1-3)

This opportunity for study is designed for students wishing to complete an in-depth project in a specific area. The study must be approved by and coordinated with an individual member of the core social work faculty.

SW 780 Special Topics (1-3)

Using a (1-3) credit hour format, a variety of clinical social work electives may be offered. These are meant to introduce a specific topic or intervention skill to students. Elective courses that are currently listed under the special topics number include but are not limited to: Applied Behavior Analysis, Multisystemic Family Therapy, Adult Mental Health, Play Therapy, and Social Work Policy Practice. Prerequisites: Admitted MSW students only and completion of MSW foundation coursework.

SW 781 Clinical Social Work Practice with the Exceptional Child (3)

In this elective clinical course within the MSW program, students are expected to develop an understanding of the historical and current social work practices relating to the educational characteristics, needs, and placement alternatives for exceptional learners. Prerequisites: Admitted MSW Students only, completion of all MSW foundation coursework, and a practicum-director-approved placement in a clinical field practicum.

SW 782 Clinical Social Work Practice in the Educational Environment (3)

Students in this content-driven course are expected to develop the knowledge and skills necessary for school social work practice or other forms of social work practice that might be influenced by the educational setting. In this course, students will gain a deeper understanding of the history, philosophy, and issues/trends of the American educational system. Students will be provided with an opportunity to critically analyze and discuss various historical, philosophical, and current trends in the education system, all the while juxtaposing social work philosophy, ethics, and practice principles against their findings. Prerequisites: Admitted MSW students only, completion of all MSW foundation coursework, and a practicum-director-approved placement in a clinical field practicum.

SW 783 Clinical Social Work Practice in Schools (3)

Students in this course are expected to develop the knowledge and skills necessary for effective practice of school social work. An emphasis on the impact of policies for student and family functioning is included. Concurrent placement in a school-based clinical practicum is suggested.

SW 784 Psychopharmacology (3)

Students in this course are expected to develop the conceptual background needed to understand current pharmacological interventions used with clients. An emphasis is placed on the social worker's role in direct service with the client, the family, and other providers. Ethical issues involved with medications and medication compliance are stressed.

SW 786 Clinical Social Work Practice with Trauma (3)

Students in this course are expected to develop the knowledge and skills necessary for effective clinical or systemic interventions for children, adolescents, and adults who have survived a traumatic event.

SW 787 Geriatric Social Work in Clinical Practice (3)

This course is designed to provide students with an overview of gerontological social work in clinical practice with an emphasis on the principles of practice, the application of research, and the formulation of policies as they relate to older adults. The course will define the role of the social worker from a gerontological perspective. It will introduce the student to special populations that are most vulnerable: aging people of color, the disabled, and gay and lesbian aged.

SW 788 Multicultural Social Work in Clinical Practice (3)

Students in this course are expected to develop the knowledge and skills necessary for effective assessment and treatment of ethnic minorities, women, and other disenfranchised groups. The psychological and sociological implications of discrimination are examined from a local, national and international framework, as well as the development of specific skills, including advocacy and empowerment, in working with disadvantaged groups.

SW 789 International Social Work (3)

This course is designed to provide clinical social work students with an overview of international aspects of social work and its global context. This course covers working with migration, refugees, natural disasters, terrorism, and human rights issues. It will look at the role of humanitarian groups worldwide. This course will challenge students to explore the various ways that different cultures perceive the role of social work and social workers. Students will learn to analyze social development and policy issues. The course will define the role of the social worker from a global perspective, and introduce the student to special populations worldwide with an emphasis on the most vulnerable.

SW 790 Pre-Clinical Practicum Workshop (0)

In this mandatory one day workshop, MSW students will be oriented to the clinical field practicum, expectations regarding professional comportment, duties/responsibilities in completing tasks, required practicum program paperwork, and other aspects of the practicum experience. Concurrent enrollment in SW 791 and SW 792 is required. Fall semester only. Prerequisites: Admitted MSW students only; completion of all MSW foundation coursework, and a practicum-director-approved placement in a clinical field practicum.

SW 791 Clinical Practicum I (3)

This first semester of Clinical Practicum is taken concurrently with SW 792 Clinical Seminar. In this semester, students begin their professional development in community agencies. Small case load and close supervision is expected. Concurrent enrollment in SW 790 and SW 792 is required. Fall semester only.

SW 792 Clinical Practice Seminar I (3)

In this seminar, taken concurrently with the Clinical Practicum I, students are expected to integrate academic course work, including values and ethics, with the practice of clinical social work, and to analyze and evaluate their effectiveness with clients. Concurrent enrollment in SW 790 and SW 791 is required. Fall semester only.

SW 793 Clinical Practicum II (3)

This field experience is a continuation of Clinical Practicum I. Students are expected to further develop their clinical skills for assessment and intervention with individuals, families, and groups. Spring semester only.

SW 794 Clinical Practice Seminar II (3)

Clinical Seminar II must be taken concurrently with Clinical Practicum II. This online seminar/online course provides students with further opportunity to integrate academic course work, including values and ethics, with the actual practice of clinical social work, and to think critically about their clinical work with clients. The seminar/online course allows students to continue with peer clinical case consultation format. In addition, the seminar/online course permits students to focus on creating a portfolio that will be reviewed by peers and the instructor at the end of the semester. Spring semester only.

SW 795 Social Work International Service (3)

This course uses an international lens to provide MSW students the opportunity to learn about social work practice, including the effects of historical, social, psychological, physical, and environmental conditions on well-being at the micro, mezzo, and macro levels. The course will emphasize ways that culture and diversity intersect with social work practice. A portion of this course includes international travel.

Sociology (SO)

SO 100 Introduction to Sociology (3)

This course introduces students to theories, concepts, and methods used by sociologists in the study of society. Through this course, students should come to realize how many aspects of their lives are influenced by the social world in which they live and, as a result, should obtain a better understanding of themselves as social individuals and their place in society. Students will also develop an awareness and appreciation of how other individuals, groups, and/or societies have arrived at quite different perspectives. Prerequisite: None.

(General Ed Social Science. Global Citizenship Ethics Div.)

SO 101 Social Problems (3)

This course introduces students to the complexity of major social problems that are currently facing the U.S. and the world. Special emphasis is given to problems emerging from various divisions and inequalities in society related to social power, social class, race/ethnicity, sex, etc. Students will learn tools needed to critically evaluate these issues using sociological perspectives. Prerequisite: None.

(General Ed Social Science. Critical and Creative Thinking.)

SO 200 Special Topics in Sociology (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: SO 100 or SO 101.

SO 207 Race and Ethnic Relations (3)

This course examines the historical social construction of race in the U.S. We will focus on how race and ethnicity shape social life. This course will explore the experiences of various ethnic and racial groups. Prerequisite: SO 100 or AN 112.

SO 300 Special Topics in Sociology (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: SO 100 or SO 101.

SO 301 Population and Society (3)

This course provides students with an overview of the field of population studies. In the course, students will explore topics including fertility, mortality, immigration, marriage, and the consequences of these demographic changes on both social and individual levels. Prerequisite: SO 100.

SO 302 Culture, Gender and Sexuality (3)

This course introduces students to anthropological perspectives on sex, gender, and sexuality. Special attention is given to the social, political, economic, and cultural processes that shape us to act and think as particular kinds of sexed, gendered, and sexualized persons, including the complexities and dilemmas posed by intersecting identities (e.g. race, ethnicity, class, religion). Prerequisite: AN 112, or AN 113, or consent of instructor.

SO 304 The Family (3)

This course provides an examination of contemporary U.S. and global family life, including courtship, marriage, divorce, child-rearing, and caring for aging parents. Prerequisite: SO 100.

SO 305 Criminology (3)

This course examines theories of causation of crime as well as conformity (non-criminal behavior), and their relationships to social structure and culture. In this course, we examine how laws are created, applied, and enforced in society. Prerequisite: Six hours of Sociology including SO 100 or SO 101.

SO 306 Law and Society (3)

In this course, the legal system is studied not in terms of the rules that make up the system, but in terms of the activities involved in creating, interpreting and enforcing these rules. The primary concern is with the ways in which the legal system affects society and in which society is an integral part of the larger social system and not an isolated set of rules, procedures, and activities. Prerequisite: SO 100 or SO 101.

SO 307 Penology (3)

This course provides a historical examination of the treatment of convicted adults and juveniles, as well as discussions of modern alternatives to prison, such as probation, parole, restorative justice, and suspended sentencing. The course includes field trips to local institutions. Prerequisite: SO 100 or SO 101.

SO 308 Sociology of Mental Health (3)

Survey and sociological analyses of major theoretical approaches toward mental health and illness exploring the social factors associated with mental illness; examination of the dynamics of societal reactions to mental illness. Prerequisite: SO 100.

SO 309 Sociology of Deviance (3)

This course includes presentation, evaluation, and integration of sociological perspectives of deviance. The course focuses on the social processes producing and maintaining deviance. Consideration is given to a variety of deviant expressions. Prerequisite: SO 100 or SO 101.

SO 310 Social Class in the U.S. (3)

This course explores the definition of social class and the impact of social class on everyday lives including opportunity, education, marriage, and parenting. Prerequisite: SO 100.

SO 311 Juvenile Delinquency (3)

This course examines the characteristics and extent of youthful deviancy. The focus is on possible causes, concepts of treatment, and societal reaction. Prerequisite: SO 100.

SO 313 Sociology of Disasters (3)

This course analyzes the phenomena we call "disaster" using a sociological perspective. Some of the topics covered will include: What is a disaster? Do disasters randomly affect populations, or are some groups more vulnerable than others? How can disasters act as an agent for or against social change? Prerequisite: SO 100.

SO 314 Organizations (3)

This course examines organizations from the sociological perspective with emphasis on formal organizations. Through this course, students will learn to apply concepts of organizational structure; organizational culture; processes of power, leadership, and decision-making; and understand outcomes of organizations on individuals, communities, and society, as well as the larger environments. Prerequisite: SO 100.

SO 315 Sociology of Sport (3)

In this course we examine sport as a microcosm of society, in that we critically examine the social, cultural, political, and economic realities of society. Further, the sociology of sport exists to promote, stimulate, and encourage the sociological study of play, games, and contemporary physical culture and examine what these activities tell us about society. Prerequisite: SO 100.

SO 316 Japan and East Asia (3)

The main objective of this course is to examine social, cultural, demographic, economic, and political trends in East Asia through the lens of sociologists and other social scientists. Emphasis will be on China, Japan, and Korea. Prerequisites: SO 100.

SO 318 Sociology of Religion (3)

This course provides a comparative study of the phenomenon of religion with special emphasis on the impact and future of religion in the modern world. Classical and contemporary theories serve as a basis for the approach to religious values, norms, institutional structures, and changing religious practices. Prerequisite: SO 100.

SO 319 Food and Culture (3)

Food is a part of everyday life, and we often taken the act of cooking and eating for granted. In this course, we will explore larger social phenomena through our consumption of food. Much of the focus of this course will involve reading scholarly analyses of different issues surrounding food. Prerequisites SO100 or consent of instructor.

SO 323 The City and Urban Life (3)

This course provides a comparative study of the origin and development of cities. The focus is on processes of urban development, rural-urban migration, inter-relationships between people, urban cultures, social institutions, use of space and competing theoretical perspectives. Prerequisite: SO 100 or SO 101.

SO 326 Aging and Society (3)

This course explores the aging process from the vantage point of sociological theories and related empirical studies. Emphasis is on the social, political, economic, medical, and demographic contexts of aging. Special attention is given to "new ageism." The course also focuses on the effect on U.S. society of an aging population. Prerequisite: SO 100.

SO 338 Strategies for Social Change (3)

This course explores the major economic, political, and social forces that influence structural and cultural change in the U.S. and the world using a sociological perspective. The course also introduces students to different types of social movements and provides a framework for activism, as individuals and as members of groups. Prerequisite: SO 100 or SO 101.

SO 360 Sociological Theory (3)

This course provides a historical examination of the field of sociology and the development of sociological theory from its classical roots to contemporary debates. "Schools of thought" and the work of particular theorists are used to explore central concepts. Prerequisite: Declared major, junior / senior standing.

SO 362 Methods of Social Research (3)

Specific research techniques employed by sociologists, anthropologists, and other social scientists are considered, including polls and surveys, the interview and participant observation. Each student will complete an outside project. One of two capstone courses required of Sociology majors. Prerequisites: Declared major and 15 hours of Sociology, or consent.

SO 363 Internship (1-3)

Field training to provide students with experience in an operational or research setting through assignment to local social agencies or museums approved and supervised by a faculty member. May be elected twice for a maximum of three hours. Prerequisites: Declared major, senior standing and consent.

SO 366 Directed Readings (1-3)

Under supervision of a faculty member, students will undertake an extensive readings course to further their understanding of a specific topic within Sociology. May be repeated for a maximum of six hours. Students are limited to six hours total from SO 366 and SO 367 combined. Prerequisite: Declared major, junior/senior standing, and consent.

SO 367 Directed Research (1-3)

Upon supervision of a faculty member, students may undertake an independent research project in a specific aspect of Sociology. May be repeated for a maximum of six hours. Students are limited to six hours total from SO 366 and SO 367 combined. Prerequisite: Declared major, junior/senior standing, and consent.

SO 377 Sociology of Education (3)

This course examines theories and methods focusing on the role of education in stabilizing and changing industrial society particularly the United States. We describe and analyze how schools and universities figure into recurring crises and struggles-especially those related to the job market and to people's concerns as to what constitutes a rewarding life. Prerequisite: SO 100, SO 101 or consent of instructor.

SO 400 Special Topics/Sociology (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: SO 100 or SO 101.

SO 600 Special Topics in Sociology (1-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisites: Admission to a graduate program and consent of instructor.

SO 614 Organizations (3)

This course examines organizations from the sociological perspective with emphasis on formal organizations. Through this course, students will learn to apply concepts of organizational structure; organizational culture; processes of power, leadership, and decision-making; and understand outcomes of organizations on individuals, communities, and society, as well as part of larger environments. Prerequisites: Admission to a graduate program or consent of the instructor.

SO 638 Strategies for Social Change (3)

This course explores the major economic, political, and social forces that influence structural and cultural change in the U.S. and the world using a sociological perspective. The course also introduces students to different types of social movements and provides a framework for activism, as individuals and as members of groups. Prerequisites: Admission to a graduate program or consent of instructor.

SO 660 History and Theory Sociology (3)

This course provides a historical examination of the field of sociology and the development of sociological theory from its classical roots to contemporary debates. "Schools of thought" and the work of particular theorists are used to explore central concepts. Prerequisites: SO 100 and admission to a graduate program, or consent of instructor.

Sonography Licensure Prep (SONO)

SONO 300 Vascular Ultrasound Review (2)

This Vascular Ultrasound Review Course is designed to prepare the sonographer for the ARDMS registry exams. In this course you will cover the entire realm of vascular sonography. It will provide review materials, case studies of imaging pathology (sermonettes), faculty interaction and mock board exams. Along with 2 college credits or submission for CME's.

SONO 301 Ultrasound Physics Review (2)

This Ultrasound Physics Review Course is designed to prepare the sonographer for the ARDMS registry exams. In this course you will cover the entire realm of sonography principles and instrumentation. It will provide review materials, case studies of imaging pathology (sermonettes), faculty interaction and mock board exams. Along with 2 college credits or submission for CME's.

SONO 302 Cardiac Ultrasound Review (2)

This course is structured to provide a comprehensive review to better prepare an individual for the ARDMS® or CCI® registry exams. This course provides cardiac information specific to the content outlines provided by the ARDMS® and CCI®. Information is provided by different instructional methods such as sermonettes, case-studies, videos, and PowerPoints. Unlimited mock exams are available to take at your convenience.

SONO 303 Ob/Gyn Ultrasound Review (2)

This OBGYN ultrasound online review course is designed to prepare the sonographer for the sonography credentialing exams. In this online course you will cover the entire realm of OB/GYN sonography as related to the sections of anatomy & Physiology, Pathology, Integration of Data, Protocols, Physics & Instrumentation, and Treatment. It will provide review materials, case studies of imaging pathology (sermonettes), faculty interaction and mock board exams. 2 college credits will be awarded upon successful completion.

SONO 304 Abdominal Ultrasound Review (2)

This Abdominal ultrasound online review course is designed to prepare the sonographer for the sonography credentialing exams. In this online course you will cover the entire realm of abdominal sonography as related to the sections of anatomy & Physiology, Pathology, Integration of Data, Protocols, Physics & Instrumentation, treatment, managing medical emergencies, and traumatic injury. It will provide review materials, case studies of imaging pathology (sermonettes), faculty interaction and mock board exams. 2 college credits will be awarded upon successful completion.

Spanish (SP)

SP 101 Beginning Spanish I (4)

Introduction to conversation, reading, grammar, and composition. Development of oral/aural skills. Particular emphasis on contemporary culture and social customs in the Spanish-speaking world. An audiovisual program to develop phonological skills is a component of this course. No prerequisite.

SP 102 Beginning Spanish II (4)

Continuation of Spanish 101. Prerequisite: SP 101 or two years of high school Spanish, or consent of instructor.

(General Ed Humanities. Global Citizenship Ethics Div.)

SP 105 Intensive Beginning Spanish I & II (8)

Same content as SP 101 and SP 102 but accomplished in one semester of intensive study. Not open to native speakers of Spanish or students who received credit for SP 101 or SP 102. Recommended for students who have already had some high school Spanish.

SP 201 Intermediate Spanish I (3)

This course is intended as reinforcement of the 5 skills learned in SP 102: speaking, listening, reading, writing and culture. Offered fall semester only. Prerequisite: SP 102 or 3 years of high school Spanish with B or better.

(General Ed Humanities. Global Citizenship Ethics Div.)

SP 202 Intermediate Spanish II (3)

This course is the continuation of SP 201. Offered spring semester only. Prerequisite: SP 201 or consent of the instructor.

(General Ed Humanities. Global Citizenship Ethics Div.)

SP 207 Basic Spanish Conversation (3)

Development of oral skills with emphasis on practical vocabulary. Use of magazines, newspapers, and other topical materials as basis for conversation. Offered fall semester only. Prerequisite: SP 202 or two years of high school Spanish, or consent of instructor.

SP 274 Independent Study (1-3)

Directed study. May be repeated. Prerequisite: Consent of instructor.

SP 290 Study Abroad Spanish Speaking Country (1-15)

Students who are planning to study in a Spanish speaking country should enroll under this number after consultation with their major advisor. Prerequisite: 1 year of university-level Spanish (SP 101/SP 102) or equivalent.

SP 295 Faculty Led Program Spanish Speaking Country (0-6)

Students who plan to study Spanish in a Spanish speaking country in a program led by a faculty member at Washburn should enroll in this class. Prerequisite: Consent of Faculty Group Leader.

SP 307 Contemporary Hispanic Culture (3)

This course explores the diversity and complexity of the Spanish-speaking world through its geography, history, politics, and cultural manifestations. Through the study of different media, the course examines how culture interprets and shapes the identity of Hispanic countries. THIS COURSE IS TAUGHT IN ENGLISH. Spanish majors may enroll in this course and use it as an elective if not counting SP 308. Prerequisite: Sophomore status.

(General Ed Humanities. Global Citizenship Ethics Div.)

SP 308 Hispanic Narrative in Translation (3)

This course introduces students to some of the most important Hispanic speaking thinkers (writers, poets, and film directors). An emphasis on the historical and cultural context will provide students with a better understanding of literary texts and culture. Each course is organized around one theme or question subject to change. Students will enhance their skill of analyzing narrative [literature, films] and gain an understanding of historical and cultural aspects in the modern Spanish-speaking world. Students will work on producing good academic prose, clear and concise essays on novels, plays, poems, films and/or theoretical works studied in class. Selected films in Spanish will be shown with English subtitles. Class will be conducted in English and it is only valid for the major in the language as a correlated course. Prerequisite: Sophomore Standing or Consent of Instructor.

(General Ed Humanities. Global Citizenship Ethics Div.)

SP 311 Spanish Grammar Review (3)

Comprehensive review of Spanish grammar with emphasis on the development of free composition. Grammatical accuracy, clarity, and the appropriate use of idioms and syntax are stressed. Offered fall semester only. Prerequisite: SP 202 or consent of instructor.

SP 312 Spanish Composition (3)

Development of grammatical accuracy and proficiency in composition. Use of readings to illustrate grammatical points and form the basis for composition and discussion. Offered spring semester only. Prerequisite: SP 311 or consent of instructor.

SP 315 Translation (3)

Spanish-English and English-Spanish translation of a variety of texts. Focus on techniques of translation and improving Spanish grammar, syntax and idioms. Prerequisite: SP 311 or consent of instructor.

SP 321 Spanish for Business (3)

Upper-level Spanish course applied to the world of business from a Hispanic cultural perspective, focusing on grammar review, vocabulary, cultural protocols and business concepts. Prerequisite: SP 312 or consent of instructor.

SP 324 Civilization of Spain (3)

Oral and written treatment of geography, history, art, economy, and customs in order to understand present conditions in this country. Use of multimedia resources. Prerequisite: SP 312 or consent of instructor.

SP 325 Civilization of Mexico (3)

Oral and written treatment of geography, history, art, economy, and customs in order to understand present conditions in this country. Use of multimedia resources. Prerequisite: SP 312 or consent of instructor.

SP 326 Civilization of Latin America (3)

Oral and written treatment of geography, history, art, economy, and customs in order to understand present conditions in this area of the world. Use of multimedia resources. Prerequisite: SP 312 or consent of instructor.

SP 331 Introduction to Hispanic Literature (3)

Intensive readings in modern Hispanic literature to give students critical methods for dealing with Hispanic literary genres. Prerequisite: SP 312 or consent of instructor.

SP 340 History/Literature Latin America (3)

This course focuses on the relationship between history and literature in modern Latin America. Through the study of novels, poetry, film, and other genres the course examines how authors use literature to interpret the meaning of history and society as well as moments in which literature became part of the historical process. THIS COURSE IS TAUGHT IN ENGLISH. Students majoring in Spanish can take the course for Spanish credit if they do the readings, write papers, and take tests in Spanish. Prerequisite: SP 312 or consent of instructor.

SP 350 Spanish Literature through the 19th Century (3)

Readings of unabridged works from the Middle Ages through the 19th century. Written and oral discussion of the literary significance of the works, as well as their sociohistorical background. Prerequisite: SP 312 or consent of instructor.

SP 353 Twentieth Century Spanish Peninsular Literature (3)

Readings and discussion of unabridged novels and plays as well as short stories and poetry of modern writers. Focus on the expression of contemporary problems and aspirations. Prerequisite: SP 312 or consent of instructor.

SP 370 Latin American Literature through the 19th Century (3)

Readings and discussion of unabridged novels, short stories, plays and poetry of Latin American writers from Pre-Hispanic to 19th century Latin America. Focus on how the past has shaped the contemporary traditions. The class will include discussion of modern adaptations of classic works (i.e., movies). Prerequisite: SP 312 or consent of instructor.

SP 372 Twentieth Century Latin American Literature (3)

Readings and discussion of unabridged novels, plays, short stories, and poetry of modern writers. Focus on the expression of contemporary problems and aspirations. Prerequisite: SP 312 or consent of instructor.

SP 374 Independent Study (1-3)

Directed study. May be repeated. Prerequisite: Consent of instructor.

SP 375 Spanish Seminar (3)

Application of the techniques of literary analysis to particular authors or literary movements. May be repeated. Prerequisite: Consent of instructor.

SP 380 Hispanic Culture thru Film (3)

This course is an introductory survey of the history of Hispanic film, and how film reflects and shapes Hispanic history, culture, and society. The course can focus on a particular Spanish-speaking country. Special attention will be paid to the study of significant movies, stars and directors, as well as the basics of critical language needed to talk and write about a film. Prerequisite: SP 312 or consent of instructor.

(General Ed Humanities. Global Citizenship Ethics Div.)

SP 390 Study Abroad Spanish Speaking Country (1-15)

Students who are planning to study in a Spanish speaking country should enroll under this number after consultation with their major advisor. Prerequisite: 2nd year of university-level Spanish (SP 201/SP 202) or equivalent.

SP 395 Faculty Led Program Spanish Speaking Country (0-6)

Students who plan to study Spanish in a Spanish speaking country in a program led by a faculty member at Washburn should enroll in this class. Prerequisite: Consent of Faculty Group Leader.

SP 399 Special Topics/Spanish (3)

Study of individual authors or literary topics. May be repeated. See chairperson and/or schedule for current offerings. Prerequisite: Consent of instructor.

SP 400 Senior Thesis (3-6)

A major research project culminating in a thesis which deals with a literary topic, or other topics as approved by the thesis director. May be presented to the departmental faculty for consideration for departmental honors. Prerequisite: Senior standing.

SP 674 Independent Study (3)

Directed study. May be repeated. Prerequisites: Admission to MLS program and consent of instructor.

SP 699 Special Topics/Spanish (3)

Study of individual authors or literary topics. Prerequisites: Admission to MLS program and consent of instructor.

Special Education (SE)

SE 420 Planning for Children and Youth with Mid-Moderate Disabilities (3)

Introduction to programming, planning and scheduling procedures to structure the learning environment for pre-school and elementary students with learning and behavioral problems. Emphasis placed on establishment of procedures for laws and regulations, regular class integration, student and teacher time management, class scheduling, grading practices, and student/program evaluation. Prerequisite: Admission to the Professional Teacher Education Program and ED 302.

SE 422 Educational Planning for Youth with Disabilities (3)

Introduction to programming, planning and scheduling procedures to structure the learning environment for middle and secondary school students with learning and behavioral problems. Emphasis placed on establishment of procedures for regular class integration, student and teacher time management, class scheduling, grading practices, and student/program evaluation. Prerequisite: Admission to the Professional Teacher Education Program and ED 302.

SE 430 Methods & Materials for Teaching Youth with Disabilities (Pre K-Grade 5) (3)

Emphasis on selection and implementation of instructional methods including affective and learning behaviors, selection and adaptation of materials to support student learning, behavior, and social adjustment in regular education classroom. IEP development. Prerequisites: Admission to teacher education and ED 302.

SE 432 Methods & Materials for Teaching Youth with Disabilities (Grade 6-12) (3)

Emphasis on selection and implementation of instructional methods including affective and learning behaviors, selection and adaptation of materials to support student learning, behavior, and social adjustment in regular education classroom. Prerequisite: Admission to the Professional Teacher Education Program and ED 302.

SE 440 Individual & Group Management - Children & Youth with Disabilities (3)

Principles and applications of individual and group management techniques for children and youth with mild/moderate disabilities. Topics addressed include various theoretical approaches, practical techniques, and assessment procedures. Prerequisites: Admission to teacher education and ED 302.

SE 456 Special Education Practicum (4)

Directed and supervised intensive teaching experiences with children with mild/moderate disabilities in educational settings which include elementary age children. Prerequisite: Admission to the Professional Teacher Education Program, ED 302, and Admission to Student Teaching.

SE 460 Exceptions-Early Childhood (3)

Focuses on children with disabilities ages birth through grade three. Emphasis is placed on understanding assessment, uses of technology, working with families, development of IEP's/IFSP, legal and historical foundations, program models, and collaboration with school personnel. Prerequisite: ED 302.

SE 476 Psychology of the Exceptional Student (3)

Historical and current practices relating to the educational characteristics, needs, and placement alternatives for exceptional students. Emphasis placed on procedure and strategies for teaching exceptional students in the regular classroom. Prerequisites: Admission to teacher education.

SE 610 Learning and Behavioral Problems of Children and Youth with Mild-Moderate Disabilities (3)

Social, cognitive, behavioral, educational, medical aspects of development to establish etiology, characteristics, and best practice interventions for children and youth with learning and behavioral problems and theories of the causes of learning and behavioral problems. Emphasis on identifying disabilities according to state guidelines, utilizing appropriate assessment data, engaging in multi-disciplinary planning, and developing appropriate interventions. Prerequisite: ED 302 or SE 476.

SE 620 Educational Planning for Children and Youth with Mild-Moderate Disabilities (Pre-School/Elementary) (3)

Introduction to programming, planning and scheduling procedures to structure the learning environment for pre-school and elementary students with learning and behavioral problems. Emphasis on establishment of procedures for laws and regulations, regular class integration, student and teacher time management, class scheduling, grading practices, and student/program evaluation. The Individual Educational Planning (IEP) process and training in development of computerized IEP included. Prerequisite: SE 610.

SE 622 Educational Planning for Children and Youth with Mild-Moderate Disabilities (Middle/Secondary School) (3)

Introduction to programming, planning and scheduling procedures to structure the learning environment for middle and secondary school students with learning and behavioral problems. Emphasis on establishment of procedures for regular class integration, student and teacher time management, class scheduling, grading practices, and student/program evaluation. Prerequisite: SE 610.

SE 630 Methods and Materials for Teaching Mild-Moderate Disabled Children/Youth (Pre-School/Elem School) (3)

Emphasis on selection and implementation of instructional methods including affective and learning behaviors, selection and adaptation of materials to support student learning, behavior, and social adjustment in regular classroom. Prerequisite: ED 302 or SE 610.

SE 632 Methods and Materials for Teaching Mild-Moderate Disabled Children/Youth (Middle School/Secondary) (3)

Implementation of comprehensive Individualized Education Program (IEP). Emphasis on selection and implementation of instructional methods including affective and learning behaviors, selection and adaptation of materials to support student learning, behavior, and social adjustment in regular classroom. Prerequisite: ED 302 or SE 610.

SE 635 Conferencing and Consulting in Special Education (3)

Introduction of counseling and communication skills to develop multidisciplinary approaches to work with parents and other professionals to secure supportive school/home environments for exceptional children. Prerequisite: ED 302 or SE 476 and SE 610.

SE 640 Individual and Group Management for Children and Youth with Mild-Moderate Disabilities (3)

Principles and applications of individual and group management techniques for youth with mild/moderate disabilities. Methods of targeting behaviors through positive management procedures stressed, various theoretical approaches and practical techniques.

SE 655 Special Education Practicum (4)

Directed and supervised intensive teaching experiences with children with mild/moderate disabilities in educational settings which include elementary age children. Prerequisite: Admission to Student Teaching.

SE 656 Special Education Practicum I (Pre-Elementary) (2, 3)

Directed and supervised intensive teaching experiences with children with mild/moderate disabilities in educational settings which include pre-school/elementary age children. Prerequisite: SE 610, SE 620 (or concurrent).

SE 657 Special Education Practicum II (Pre-Elementary) (2, 3)

Interrelated teaching experiences with students with mild/moderate disabilities. Prerequisite: SE 656 and 18 hours of graduate coursework.

SE 658 Special Education Practicum I (Middle/Secondary) (2, 3)

Directed and supervised intensive teaching experiences with children with mild/moderate disabilities in educational settings which include middle school and secondary age children. Prerequisite: SE 610, SE 620 (or concurrent classified as educable mentally handicapped learning enrollment in SE 622).

SE 659 Special Education Practicum II (Secondary) (2, 3)

Interrelated teaching experiences with students with mild/moderate disabilities. Prerequisite: SE 658 and 18 hours of graduate coursework.

SE 660 Assessment in Special Education (Pre-Elementary) (3)

Survey and analysis of individual tests, curriculum-based and ecological measures applicable to diagnosing and planning instructional programs for children with mild/moderate disabilities. Emphasis on development of individual portfolios through data collection, administration and interpretation of multi-sources educational information, test results, and personal records to develop appropriate curriculum. Stresses use of data in the development of Individualized Educational Plans. (Fee may be assessed to cover the cost of consumable materials.) Prerequisite: SE 610, SE 620, and consent of instructor.

SE 662 Assessment in Special Education (Middle/Secondary) (3)

Survey and analysis of individual tests and curriculum-based measures applicable to diagnosing and planning instructional programs for children with mild/moderate disabilities. Emphasis on developing individual portfolios through data collection, administration and interpretation of multi-sourced educational information, test results, and personal records to develop appropriate curriculum. Stresses use of data in the development of individual educational plans. (Fee may be assessed to cover the cost of consumable materials.) Prerequisite: SE 610, SE 620, and consent of instructor.

SE 663 Exceptionals in Early Childhood Education (3)

Focuses on children with disabilities ages birth through grade 3. Emphasis is placed on understanding assessment, uses of technology, working with families, development of IEP.

SE 674 Special Topics in Special Education (3)

Topics vary from semester to semester and will be announced in advance. ED 674 may be repeated for credit. Prerequisites: Permission of Department Chairperson and Instructor.

SE 676 Psychology of the Exceptional Student (3)

Historical and current practices relating to the educational characteristics, needs, and placement alternatives for exceptional students. Emphasis on procedure and strategies for teaching exceptional students in the classroom. Prerequisite: Graduate Standing.

SE 680 Resources for Families with Disabilities (3)

Study of the local, state and national resources available to assist children with disabilities and their families. Structural characteristics of families is presented to assist students in understanding the needs of individuals with disabilities. Prerequisite: ED 302 or graduate standing.

Surgical Technology (SUR)

SUR 105 Introduction to Surgical Tech (4)

The course introduces the student to professional responsibilities, duties, and general functions of the operating room. It also introduces the student to the rest of the operating room team and their functions, responsibilities for safety of the patient and themselves, organization of the hospital and the operating room, legal and ethical issues, and the importance of communication in the operating room, credentialing, and professionalism. The use of electricity and lasers in the operating room are also covered as are the pre-op routines of the circulator prior to the patient entering the operating room.

SUR 110 Microbiology (2)

The course introduces the student to basic micro-organisms and how they relate to the operating room and sterile technique.

SUR 125 Surgical Medical Terminology (3)

The course introduces the student to the language of the medical field. Medical prefixes, suffixes, and combining forms are introduced to the student so they may have a thorough knowledge and understanding of what they are reading and writing in the medical field. An emphasis is placed on terms, pathological conditions, and diagnostic terms that relate to surgery.

SUR 135 Principles & Practices of ST (5)

The course introduces the student to basic care practices of the operating room and will include aseptic technique and surgical case management. It covers a multitude of duties and concepts of both the scrub and circulating roles of the operating room. This also includes scrubbing, gowning, and gloving; preparing and maintaining the sterile field for surgery; methods of sterilization; all operating room (OR) equipment and its use, sponge, sharp, and instrument counts; specialty instruments and their care; surgical dressings; catheters, tubes and drains; pre-op, intra-op, and post-op duties of the surgical tech and circulating nurse like positioning prepping and draping and more.

SUR 145 Principles & Practices ST Lab (3)

The course allows the student to apply the knowledge that he/she learned in SUR140 (Principles and Practices). Repeated practice is designed to get the student ready for the clinical area to assure proper patient care. The student must pass the lab in order to continue in the program.

SUR 155 Surgical Procedures I (4)

The course instructs the student in the basic general, gynecological, and genitourinary surgical procedures. Besides the procedure itself the student will learn the instrumentation needed, pathology, sutures used, and special considerations.

SUR 175 Clinical I (3)

The student will start to apply the basic skills they have learned for the operating room in the actual operating room of a clinical facility. They will also pick up experience in the instrument room and pre-operative area of the hospital. Clinical proficiency at our facilities prepares the student with a minimum of 120 cases, 80 of which are in the first scrub role and comprise a variety of surgical scrub experiences.

SUR 245 Surgical Procedures II (5)

This course will expand ENT, maxillofacial, orthopedic, vascular, plastic surgery, and neuro surgical procedures. Besides the procedure itself, included in this course is pathology involved, surgical instruments needed, positioning of the patient, and special considerations for each surgical procedure.

SUR 250 Surgical Pharmacology (2)

This course begins with weights and measurements using the metric system and its application in the medical field. A review of basic math skills and figuring ratios is included. Medications used in the operating room during surgery both for the surgeon and the anesthesia provider will be discussed. Pre-operative and post-operative medications for anxiety, pain, emergencies, and other operating room (OR) related health issues will be discussed. Anesthetic agents used including IV, inhalation, regional, and local will be presented to the student.

SUR 265 Surgical Procedures III (5)

The course will introduce students to vascular, thoracic, plastic, ophthalmic, pediatric surgical procedures and trauma surgery. Included in this is pathology involved, surgical instruments needed, positioning the patient, and special considerations for each surgical procedure. Students will also learn basic physics and robotics as applied to the operating room.

SUR 270 Clinical II (4)

In the surgical suite students will apply knowledge and skills learned in Surgical Procedures II and Principles and Practices Lab to the operating room on all surgical procedures. This course is designed to increase the student's self-confidence as a surgical tech and allow them to become more aware of their sterile technique and preparedness for each surgical procedure. Anticipation of the surgeon is critical. Clinical proficiency at our facilities prepares the student with the required 120 surgical cases, 80 of those in the 'first scrub' role.

SUR 285 Clinical III (6)

In the surgical suite students will apply knowledge and skills learned in Surgical Procedures and Principles and Practices to the operating room on more advanced procedures. This course is designed to increase the student's self-confidence and have them know instruments needed and general preparedness for each surgical procedure. Anticipatory skills are enhanced. Clinical proficiency at our facilities prepares the student with the required 120 surgical cases, 80 of these will be in the 'first scrub' role.

SUR 295 ST Certification Review (1)

Comprehensive review of surgical technology concepts and practical preparation for the national certification examination including but not limited to: a. Preoperative preparation of the surgical patient; b. Intra-operative procedures; c. Post-operative procedures; d. Administrative and personnel; e. Equipment sterilization and maintenance; f. Anatomy and physiology; g. Microbiology; and h. Surgical pharmacology.

Technical Drafting (TED)

TED 100 General Drafting (4)

Introduces the application of fundamental drawing types which includes geometric construction, ortho-graphic views, sections, auxiliary views, and development. Students are instructed in the care and use of the tools and equipment.

TED 110 Drafting Standards (1)

Drafting standards is a course in time keeping, filing, drawing logs, and drawing cross references. Developmental skills in organization, accuracy, neatness, attendance policies, dress codes, and safety in the workplace are taught.

TED 120 Technical Math I (2)

This course is a math review of practical skill as related to the drafting workplace where the students utilize fractions, decimals, simple equations, powers and roots, ratios and proportion, plane geometry, right triangles, oblique triangles, computation of areas and volumes, and use of charts and graphs.

TED 125 Technical Math II (3)

This course is a math review of practical skill as related to the drafting workplace where the students utilize plane geometry, right triangles, oblique triangles, trigonometric natural and co-functions, solutions of triangles right and oblique, computation of areas and volumes, and use of charts and graphs. Prerequisite: Technical Math I

TED 130 CAD I (5)

First course in a three-term sequence introducing AutoCAD software as a drafting tool. Instruction will be given in file handling, basic commands function, drafting techniques, presentation, and plotting. Mechanical applications will be used in lab exercises to demonstrate AutoCAD commands. Work will be completed with AutoCAD.

TED 135 CAD II (3)

Second course in a three-term sequence covering intermediate AutoCAD commands including attribute blocks, external references, object linking/embedding, advanced drawing set-up, and user coordinate systems. Work will be completed with AutoCAD. Recommended prerequisite: CAD I

TED 140 Machine Design (6)

This course is an introductory to fundamentals, theory, terminology, and practical construction methods in the machine disciplines. Use of actual working drawing used as reference to industry standards. Students will use CAD in this segment. Practical skills refinement in methods, materials identification and labeling, and drafting techniques and standards used in various types of drawings used in the machine industries are taught. Recommended prerequisite or co-requisites: TED100 General Drafting; TED135 CADII

TED 200 Architect Design (5)

Introduces fundamental aspects of architectural drafting. Covers drafting of residential and light commercial buildings, sections and elevations, schedules, design lay-outs, details, and working drawings. Assignments will be completed primarily using Autodesk's Revit software. Recommended prerequisite or co-requisite: TED230 CAD III.

TED 210 Industrial Design (6)

Introduces mechanical drafting utilizing Autodesk's INVENTOR software through parametric 3D-design tools for assembly centered modeling and collaborative engineering. Students develop fundamental knowledge in the areas of part and assembly modeling, using adaptive features, utilizing work groups, surfacing basics, data management, and lay-out presentation. Recommended prerequisites or recommended co-requisites: Machine Design; CAD III

TED 220 Civil Design (6)

Introduces civil drafting applications using civil, mapping, and survey products. Drawings will be developed to include plats, related civil infra-structure, public utilities, contours, and roads. Recommended prerequisite or recommended co-requisite: CAD II

TED 230 CAD III (5)

Third course in a three-term sequence covering advanced AutoCAD commands including advanced plotting, plotter, CAD standards, modeling 3-D wire frame, surfaces, solids, and 3-D presentation. Work will be completed with AutoCAD. Recommended prerequisite: CAD II

TED 250 Workplace Skills I (2)

Students that have completed all course objectives and criteria plus having an opportunity for employment related to the drafting field may utilize On-the-Job Training (OJT) with instructor and administrative permission.

Technology Administration (TA)

TA 210 Technology Survey (3)

Reviews the historical and practical development of technology in a wide variety of settings. Students will learn about the development of technological innovation and the effect on today's society; systems design and analysis; planning and managing a safe environment; tools and techniques to forecast future development in technology; the conflict between technological innovation and resources including local, national and global consequences; using and managing technology in the workplace and at home; and leadership and management in a variety of settings with a technology focus. Prerequisite: none.

TA 300 Evolution & Development of Technology (3)

This course includes a historical account of the development and innovation of technology. Emphasis is on the development of scientific knowledge and its relationship to inventions, their role in careers and impact on civilization.

TA 310 Technology & Society (3)

Course will focus on current technology in the context of historical development and the effect of technology on today's society. Students will develop critical analysis of technological innovation through a variety of readings, research and projects.

TA 320 System Design, Assessment, & Evaluation (3)

This course provides practice in skills to analyze organizational opportunities and evaluates systems using techniques such as flow charts, cause and effect diagrams and others to determine how systems can be utilized to meet organizational challenges. The course will cover such topics as systems planning, analysis, design, testing, implementation and maintenance. Prerequisite: MA 110, or MA 112, or MA 116, or MA 140.

TA 330 Safety Analysis & Quality Assurance (3)

The purpose of the course is to review the organization of accident prevention programs, job hazards, accident cost control, and planning and maintaining a safe environment. The course includes analysis of data, including the use of statistical process control, risk management, and quality assurance issues such as inspections, reports, and external standards of federal, state and local agencies.

TA 340 Technology Policy (3)

This course will provide an in-depth study of policy and law practices relating to technology. The course will deal with technology policy, legal ramifications in relation to local environments, state, national and international communities. Consideration in the course will deal with issues such as technological efficiency, socio-economic development, environment, security and others. Special emphasis will be given to the political process in which technology policies are shaped in public and private organization.

TA 360 Independent Study (1-4)

Technology Administration majors may pursue an independent research project approved by the Program Director in consultation with the Department Chair. Independent Study may not be used in place of any courses required of the TA work major. Independent Study courses must meet equivalencies to Federal definition of a credit hour. Prerequisites: Consent

TA 370 Technology Internship (1-4)

Provides the opportunity under the direction of a faculty member to gain insight and practical experiences in an area of technology administration.

TA 380 Technology and the Future (3)

This course will examine applications of a variety of prediction tools and techniques to forecast future developments in their career field. Outcomes will include identification and implementation of strategies to create a desired future in an operation, production or market. Prerequisite: (MA 110 or MA 112 or MA 116) and EN 101.

TA 381 Technology and Ecology (3)

The purpose of the course is to examine ecological policy in terms of technology and innovation, including the political, geographical, legal and social contexts in which technological innovation occurs. The course will examine conflicts between innovation and resources, risk assessment, national and global impact, and scale of consequences.

TA 390 Special Topics in Technology (1-3)

These special topic courses cover a variety of subjects designed to instill current topics into the technology program.

TA 400 Technology Administration (3)

This course provides an introduction to several core concepts in technology management and the role of managers of technology in their respective organizations. The course will cover topics such as technology strategy, effective use of resources, the impacts of technology systems, funding technology and ethical approaches to using and managing technology.

TA 410 Technology Planning (3)

This course investigates the increasing use of projects to accomplish organizational goals, including how project plan inputs are accurately gathered, integrated and documented. Topics include project life cycle, work breakdown structure, and the importance of quality, risk, and contingency management in planning development. Prerequisite: None.

TA 420 Technology Project (3)

Students working individually and in teams will complete projects as assigned. These projects may take a variety of forms, but will integrate students' technical and professional coursework. Students will be required to produce written and oral presentations of their projects. Evaluation will be based both on individual performance and performance as a team member. Leadership skills will be a critical component of the course. This Capstone project requires summative reflection, serving as a culminating experience for Bachelor's degree students. Prerequisite: TA 300, TA 310, TA 320, TA 330 or concurrent.

Theatre (TH)

TH 100 Theatre Practicum (0-1)

This course is designed for both theatre majors and other students interested in performing onstage or working backstage to provide practical experience as a member of a theatre production crew. Students will have the opportunity to perform onstage, or serve as crew members, designers or directors, who may work in several technical or production areas, including stage management, costumes, set design and construction, lighting, sound, properties, house management, and publicity.

TH 101 Drama Classics on Video (3)

Introduction to the theatre through play reading and viewing of selected video tapes of staged plays that cover the work of theatre artists, production styles range from the Greeks to the American Musical theatre. Students who enroll in or have completed TH 301 are ineligible to enroll in TH 101.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

TH 102 Introduction to Theatre (3)

Current views of theatre in society; theatre as art and ritual and its relationship to other fine arts, the nature of the theatrical metaphor and the aesthetic evaluation by the audience. Career opportunities associated with the art: professional, educational, community, and amateur.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

TH 103 Voice, Diction & Interpretation (3)

Training the speaking voice; study of vocal mechanism, breathing, projection, articulation, enunciation; practical application of speaking principles in oral interpretation reading; projects.

(General Ed Creative Performing, General Ed Humanities. Communication.)

TH 104 Theatre Movement Dance I (3)

Theatre Movement and Dance I is designed to introduce students to the fundamentals of dance. Dance I is a beginner class. Repeatable for credit. Prerequisite: None.

TH 199 Special Topics in Theatre (1-3)

Newly developed course material offered for variety and expansion of the course curriculum.

TH 202 Acting I (3)

Movement, voice and improvisation exercises and activities. Introduction to basic acting principles and practice, developing focus and imagination. (General Ed Creative Performing, General Ed Humanities. Communication.)

TH 204 Theatre Movement Dance II (3)

Theatre Movement and Dance II is designed to further the development and understanding of the performers' body and mind connection. Dance II is an intermediate class. Prerequisites: TH 104 or permission of the instructor

TH 206 Early Theatre History (Origins to 18th century) (3)

Play-reading in historical context. Study of elements of production, performance practice, and style which emerge representative of period. Periods: Greek, Roman, Medieval, Renaissance and Elizabethan. (General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

TH 207 Late Theatre History (18th century to contemporary) (3)

Play-reading in historical context. Study of elements of production, performance practice, and style which emerge representative of period. Periods: Restoration, French and Spanish Classicism, Neoclassicism, Romanticism, Realism. Students who enroll in or have completed EN 236 are ineligible to enroll in TH 207.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

TH 208 Principles of Playwriting (3)

Practical writing lab. Analysis of established texts leads students to creation and development of dramatic monologues, short and one-act plays. Class will culminate in public readings and/or staging of original work.

TH 209 Musical Theatre Performance I (3)

Performance class; students practice fundamental performance techniques for musical theatre repertoire; fundamental analysis of song forms and acting objectives for solo and scene work from selected styles. Singing, movement and public performance required. Prerequisite: None.

TH 211 Stagecraft (3)

Lecture and laboratory exploration of the concepts of stage drafting, construction and painting. Crew assignment will be required.

TH 212 Acting II-Text/Scene Analysis (3)

This acting course focuses on the process of creating a character for the stage. The course includes text analysis, scene study and scene and monologue work.

TH 218 Acting & Directing Workshop I (3)

Practical experiences in acting and directing through analysis, preparation and performance of scenes and monologues, and other performance exercises. Focus: Realism and Serious Contemporary Drama. Prerequisite: None.

TH 300 Theatre Practicum (0-1)

This course is designed for both theatre majors and other students interested in performing onstage or working backstage to provide practical experience as a member of a theatre production crew. Students will have the opportunity to perform onstage, or serve as crew members, designers or directors, who may work in several technical or production areas, including stage management, costumes, set design and construction, lighting, sound, properties, house management, and publicity.

TH 301 Drama Classics on Video (3)

An introductory Theatre course which involves viewing performances and play reading. Production styles range from the Greeks to the American Musical theatre. This course carries a mutual exclusion with the following course; you may not enroll in TH 301 if you have completed TH 101 with a passing grade.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

TH 303 Acting III (3)

Practical application of a method for text analysis and performance of Shakespeare and other presentational and verse forms through monologue and scene work. Prerequisite: TH 202 or consent.

TH 304 Theatre Movement Dance III (3)

Course is designed to continue to develop dance skills and techniques. Dance III includes jazz, modern, ballet and tap. Prerequisites: TH 204 or permission of the instructor.

TH 306 Contemporary Theatre (3)

Study of developments in playwriting, directing, and acting since WWII to the present with special emphasis on influences that have affected contemporary theatre and drama. Students who enroll in or have completed EN 336 are ineligible to enroll in TH 306/TH 606.

(General Ed Creative Performing, General Ed Humanities. Critical and Creative Thinking.)

TH 307 Non-Western Drama (3)

Detailed examination of the drama and theatre of selected Non-Western theatrical forms. Special emphasis is placed upon the relationship of cultural elements to the theatrical event.

TH 308 Principles of Playwriting (3)

Practical writing lab. Analysis of established texts leads students to creation and development of dramatic monologues, short and one-act plays. Class will culminate in public readings and/or staging of original work.

TH 309 Musical Theatre II (3)

Performance Class; students practice intermediate performance techniques for musical theatre repertoire; analysis of form, style, acting and movement for solo, scene and ensemble work from multiple styles. Singing, movement and public performance required. Prerequisites TH 210 or permission.

TH 311 Stagecraft (3)

Lecture and laboratory exploration of the concepts of stage drafting, construction and painting. Crew assignment will be required.

TH 313 Introduction to Children's Theatre (3)

Study of theatre production for children and youth. Investigation into the Children's Theatre repertory with special emphasis on playwriting. Development of a philosophy of theatre for children and youth.

TH 314 Children's Theatre Tour (3)

Touring area schools as a performer or stage manager throughout a given semester. Preparation, rehearsal and performance of play chosen for a specific age group. Prerequisite: TH 202, TH 313 or consent.

TH 315 Set and Prop Construction (3)

This course will focus on scenic and prop construction. Prerequisite: None.

TH 316 Costume Construction (3)

Costume Construction will teach students how to make costumes and costume accessories. Prerequisite: None.

TH 317 Lighting and Sound (3)

Light and Sound Production will teach students how to read a light plot, hang/focus lights, write cues and run a light board. Additionally, students will learn how to record and edit sound for theatre productions. Prerequisite: None.

TH 318 Acting & Directing Workshop II (3)

Practical experiences in acting and directing through analysis, preparation and performance of scenes and monologues, and other performance exercises. Focus: Realism, Experimental and Contemporary Comedy. Prerequisite: TH 218 - Acting and Directing Workshop I or consent of instructor

TH 319 Stage Makeup (3)

A practical guide to the theory and practice of theatrical makeup. Students will become familiar with the traditional and color theory approaches to makeup. Various conceptual and technical problems will be studied and solved.

TH 320 Acting II (3)

Advanced acting course continuing development of skills acquired from Acting I. Emphasis on styles and methods of analysis, interpretation, and portrayal of characters from selected plays, (contemporary to historical period): Prerequisite: TH 202 or instructor permission

TH 333 Digital Painting and Drawing (3)

AR327 is designed to provide the student with knowledge and skills necessary to create digital paintings and drawings using a range of visual art media related to digital processes, including AR/VR and 3D virtual painting. Emphasis of the course is focused on the student.

TH 359 Methods of Teaching Speech and Drama (3)

The study and application of teaching strategies for secondary education certification in speech. Prerequisites: Advisor approval and formal admission to teacher education.

TH 399 Special Topics/Theatre (0-3)

Newly developed course material offered for variety and expansion of the course curriculum.

TH 401 Analysis and Directing (3)

Students practice analytical skills and apply directing concepts and skills to stage a scene or short play. Prerequisites: TH 202 and TH 211 (Acting I and Stagecraft) or Instructor permission.

TH 406 History - American Musical (3)

Examines major cultural, artistic, historical, economic and social influences surrounding the creation, performance and reception of the American Musical. Prerequisites: TH 101 or TH 102 or TH 301, or permission of the instructor.

(General Ed Humanities. Critical and Creative Thinking.)

TH 407 Drama Theory & Criticism (3)

Study of general principles of Western literary theory and the methods, aims, functions and characteristics of Drama as an art form, derived from and/or illustrated by examples in criticism and reviewing.

TH 408 Advanced Playwriting (3)

Practical writing lab for the development of full-length texts. Advanced critique and rewriting techniques will be employed to assist in script development. Prerequisite: TH 208 or TH 308 or consent.

TH 409 Musical Theatre Performance II (3)

Performance Class: Students practice advanced performance techniques for musical theatre repertoire; analysis of form, style, acting, movement for solo, scene and ensemble work from varied styles. Singing, movement and public performance required. Prerequisite: TH 310 or permission of the instructor.

TH 415 Experimental Theatre (3)

Practical introduction and practice in performance theory, collective creation and conceptualization. Creation of theatre piece from existent or original sources.

TH 416 Special Theatre Projects (1-3)

Majors must complete a faculty mentored project. Specifically developed projects or internships (1-3) in acting, directing, playwriting, design, public relations, and theatre management.

TH 606 Contemporary Theatre (3)

Study of developments and playwriting, directing, and acting since WW II to the present with special emphasis on influences that have affected contemporary theatre and drama. Students who enroll in or have completed EN336/636 are ineligible to enroll in TH 306/606. Prerequisites: Consent of instructor.

TH 607 Non-Western Drama (3)

Detailed examination of the drama and theatre of selected Non-Western theatrical forms. Special emphasis is placed upon the relationship of cultural elements to the theatrical event. Prerequisites: Consent of instructor.

Washburn University (WU)

WU 101 The Washburn Experience (3)

This three-hour course for first-year students focuses on developing the skills necessary to be successful in college. Each section of the course will use common themes such as the exploration of study skills, wellness, technology, academic integrity, information literacy, global citizenship and others to introduce students to a series of best practices. Prerequisite: None.

(Information Literacy and Tech.)

WU 105 Life Skills (1)

Focuses on developing the critical-thinking and life skills needed for a successful transition into independence. The course covers topics ranging from basic auto maintenance to personal finance with the goal of promoting the development and refinement of important life skills. The target audience for this course is students participating in success programs through the Center for Student Success and Retention. Prerequisite: Approval of course instructor.

WU 110 Peer Educator Training (0)

The WU 110 course is utilized to train new peer educators for future service in FYE courses. Students will gain skills in classroom management, student engagement, and public speaking. Prerequisite: Consent of Instructor.

WU 115 Academic Enhancement (0)

The WU 115 course is utilized as a learning laboratory for students participating in curricular success programs offered through the Center for Student Success & Retention. Prerequisite: Consent of Instructor.

WU 120 Major and Career Exploration (2)

WU120 will use a Social Science research process to guide students through academic and career exploration in the Information Age. Engaged and capable citizens need a firm grounding in digital research to navigate successfully the Knowledge Economy. Because this world continues to evolve rapidly, having a skill set that provides the ability to evaluate a changing environment is essential. This course meets a core student need by teaching Information Literacy and Technology skills while encouraging students to consider thoughtfully their role as citizens. Prerequisite: None.

Welding (WEL)

WEL 101 Welding Safety/OSHA 10 (2)

Through a variety of classroom and/or lab learning and assessment activities, students in this course will explain job/site safety and precautions for job/site hazards, determine the uses of personal protective equipment (PPE), identify the safety equipment and procedures related to safe work practices and environment, identify fire prevention and protection techniques, and explore Hazardous Communications (HazCom) including Material Safety Data Sheets (MSDS).

WEL 101A Welding Safety/OSHA 10 (1)

Through a variety of classroom and/or lab learning and assessment activities, students in this course will explain job/site safety and precautions for job/site hazards, determine the uses of personal protective equipment (PPE), identify the safety equipment and procedures related to safe work practices and environment, identify fire prevention and protection techniques, and explore Hazardous Communications (HazCom) including Material Safety Data Sheets (MSDS).

WEL 110 Print Reading/Math I (1)

This course is designed to teach a basic understanding of welder's math and the symbols used on blueprints. The symbols used on blueprints give the designer a way to relay information to the fitter and welder. The graphic language on blueprints uses various symbols, lines, and notes to convey information. A blueprint is used by a welder to visualize the parts final form, to position and align various members, and to determine the type of joint preparation. It tells the welder what type of filler metal to use, where the weld metal is to be placed, the extent of welding and the size, contour, and finish method for the welds.

WEL 110A Print Reading/Math I (1)**WEL 120 Oxy-Fuel/Cutting Procedures (3)**

This course will include cutting of ferrous and non-ferrous materials with manual, motor driven, and oxy-fuel shape cutting equipment. Also included are plasma-arc cutting (PAC) and carbon-arc cutting (CAC-A). Safety, equipment, and the basic fundamentals of cutting processes will be introduced. Student will be expected to produce acceptable oxy-fuel, PAC, and CAC-A cuts. This unit follows ANSI / AWS C4.2-90 an American National Standard.

WEL 131 SMAW (3)

Through classroom and/or lab/shop learning and assessment activities, students in this course will describe the shielded metal arc welding (SMAW) process, demonstrate the safe and correct set-up of the SMAW work station, associate SMAW electrode classifications with base metals and joint criteria, demonstrate proper electrode selection and use based on metal types and thicknesses, build pads of weld beads with selected electrodes in the flat position, build pads of weld beads with selected electrodes in the horizontal position, perform basic SMAW welds on selected weld joints, and perform visual inspection of welds.

WEL 131A SMAW (2)**WEL 135 SMAW I (3)**

This course is a continuation of SMAW. Additional positions, metals, and metal alloys will be introduced providing the student additional experience with Shielded Metal Arc Welding.

WEL 135A SMAW I (2)

This course is a continuation of SMAW. Additional positions, metals, and metal alloys will be introduced providing the student additional experience with Shielded Metal Arc Welding.

WEL 141 GMAW (3)

Through classroom and/or lab/shop learning and assessment activities, students in this course will explain gas metal arc welding (GMAW) process, demonstrate the safe and correct set-up of the GMAW work station, correlate GMAW electrode classifications with base metals and joint criteria, demonstrate proper electrode selection and use based on metal types and thicknesses, building pads of weld beads with selected electrodes in the flat position, build pads of weld beads with selected electrodes in the horizontal position, produce basic GMAW welds on selected weld joints, and conduct visual inspection of GMAW welds. Prerequisites: Welding Safety/OSHA 10 ; SMAW I

WEL 141A GMAW (2)**WEL 145 GMAW Welding (3)**

This course is a continuation of GMAW. Additional positions, metals, and metal alloys will be introduced providing the student additional experience with gas metal arc welding.

WEL 145A GMAW Welding (2)

The course is a continuation of GMAW. Additional positions and tests will be introduced providing the student additional experience with gas metal arc welding.

WEL 150 Workplace Skills I (2)

This course teaches some of the skills needed to get a job in any field. This course utilizes Work Keys assessments which include Applied Math (basic word problem-solving), Reading for Information, and Locating Information. This course also introduces some of the testing methods used in the welding industry. Destructive and non-destructive testing methods will be discussed.

WEL 160 Oxy-Fuel Welding (4)

This course teaches basic welding using and oxy-fuel welding set-up. A student will learn how to set-up and torch and become proficient in the start-up and shut down procedures. Basic welding skill and understanding of the process is needed in this area. This will lead into gas tungsten arc welding (GTAW) at a later date.

WEL 170 Fabrication Measuring & Layout (3)

This course focuses on understanding proper measurement tools and application along with using mathematics to determine exact locations of required additional items and penetrations associated to each Fabrication job. Using tape measure squares and other tools to layout reference lines and grids to meet specs and tolerances required.

WEL 180 Blueprint & Estimation (3)

This course focuses on reading, interpreting, and creating blueprints. Students will learn how to sketch out designs by hand and use them to create a print showing multiple views, measurement along with welding symbols, materials needed and their cost.

WEL 190 CNC Cutting & Brake Processes (3)

This course introduces Computer Numerical Control (CNC) and will be introduced to a CNC machine used in the precision cutting and bending applications. They will gain practical experience in the application of creating and using CNC programs, and machine setup and operation.

WEL 195 CAD Systems & Drafting (3)

This course introduces CAD software as a Layout and drafting tool. Instruction will be given in file handling, basic commands function, drafting techniques, programming, and plotting. Fabrication applications will be used in lab exercises to demonstrate CAD programs and commands. Work will be completed with CAD systems.

WEL 210 Print Reading/Math II (2)

This course is designed to teach a basic understanding of blueprints. The symbols used on blueprints give the designer a way to relay information to the fitter and welder. The graphic language on blueprints uses various symbols, lines, and notes to convey information. A blueprint is used by a welder to visualize the parts final form, to position and align various members, and to determine the type of joint preparation. It tells the welder what type of filler metal to use, where the weld metal is to be placed, the extent of welding and the size, and the contour and finish method for the welds. Prerequisite: Print Reading/Math I.

WEL 220 FCAW Welding (5)

The Flux Cored Arc Welding Unit (FCAW) is designed to teach the student the correct techniques to weld in all positions. Safety is stressed in the shop. Practice and training in the welding shop will develop the basic skill level necessary to produce quality welds in all positions and in different joint configurations. Prerequisites: Welding Safety/OSHA 10; SMAW I ; GMAW.

WEL 221 FCAW (3)

The Flux Cored Arc Welding Unit (FCAW) is designed to teach the student the correct techniques to weld in flat and horizontal positions along with operational procedures. Practice and training in the welding shop will develop the basic skill level necessary to produce quality welds in flat and horizontal positions and different joint configurations.

WEL 222 FCAW I (2)

The Flux Cored Arc Welding Unit (FCAW) is designed to teach the student the correct techniques to weld in flat and horizontal positions along with operational procedures. Practice and training in the welding shop will develop the basic skill level necessary to produce quality welds in flat and horizontal positions and different joint configurations.

WEL 230 SMAW II (5)

The Shielded Metal Arc Welding II (SMAW) unit is designed to teach the student the correct techniques to weld in the vertical up and overhead position. Safety is stressed in the shop. Practice and training in the welding shop will develop the basic skill level necessary to produce quality welds in these positions using lap joints and tee joints.

WEL 242 GMAW - Aluminum (5)

The Gas Metal Arc Welding Aluminum (GMAW) unit is designed to teach the student the correct techniques to weld in all positions. Safety is stressed in the shop. Practice and training in the welding shop will develop the basic skill level necessary to produce quality welds in all positions and in different joint configurations. Prerequisites: Welding Safety/OSHA 10; GMAW.

WEL 246 GTAW (3)

Through classroom and/or lab/shop learning and assessment activities, students in this course will explain the gas tungsten arc welding (GTAW) process, demonstrate the safe and correct set-up of the GTAW work station, relate GTAW electrode and filler metal classifications with base metals and joint build pads of weld beads with selected electrodes and filler material in the flat position, build pads of weld beads with selected electrodes and filler material in the horizontal position, perform basic GTAW welds on selected weld joints, and perform visual inspection of GTAW welds.

WEL 250 Workplace Skills II (2)

Workplace skills include writing a resume and job search technique. This section is at the very end of the program and if a student is going directly into the work force then resumes should be sent to prospective employers. Any job searches and possible job interviews will take place during this section. This is also final preparation for the exit assessment by using Key Train software for Applied Math and Reading for Information.

WEL 267 GTAW I (2)

This course is a continuation of GTAW. Additional positions, metals, and metal alloys will be introduced providing the student additional experience with gas tungsten arc welding.

WEL 270 Fabrication Equip/Procedures (3)

This course focuses on identifying and using proper equipment and hand tools used for fixturing and fitting material along with fabricating materials to complete jobs. Students will learn how to use various clamps, guides, and squares along with other measuring tools and power tools from lay-out to completion.

WEL 280 Rigging Lifting & Handling (3)

This course focuses on determining the correct size and type of rigging equipment required to safely perform lifting operation. Proper Rigging Hardware Selections, Weight Calculations, and Handling procedures will be covered to show students how to properly transport and relocate heavy and uneven materials to perform layout task and complete jobs.

WEL 290 Fixturing Fit & Pre-Assembly (3)

This course focuses on fixturing materials into proper position along with securing materials to reduce warpage to meet location tolerances and welding codes. Students will learn how to tack materials in locations required to be ready for inspection so they can be approved for completion.

WEL 295 Job Completion & Inspection (3)

In this course students will learn how to be given a pre-assembled job, job sheet, and blueprint to interpret stopping points along with what is left until completion. Students will weld together pre-assembled projects while following welding code guidelines, print requirements, manufacturers directions and critical path flow charts while also maintaining weld size tolerances and clearance tolerances. Students will learn to inspect completed jobs to confirm their completion.

Women's and Gender Studies (WG)

WG 175 Introduction to Women's Studies (3)

Introduces the principal history, methods, issues and debates in Women's Studies utilizing an interdisciplinary approach. Through a broad range of issues confronting women, the course examines both historical and contemporary ideas, institutions, and constraints that shape women's lives. Attention will be focused on differences among women as well as the potential for women's unity and empowerment. Prerequisite: None. (General Ed Humanities. Global Citizenship Ethics Div.)

WG 199 Special Topics (0-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: Varies by course and instructor.

WG 375 Women and Popular Culture (3)

This course explores the ways women are depicted in popular culture and how these integrated patterns and beliefs are transmitted to succeeding generations. We will identify how these images influence basic assumptions about societal roles and expectations of women and, therefore, female development. This examination of popular culture genres reveals the influence of pop culture and its impact on stereotypes, personal and professional relationships. Through readings, text analysis, discussion and research-oriented writing assignments, the course will engage interdisciplinary methods to examine gender and popular culture. Students will learn to analyze and critique the narratives that shape their own perceptions of gender, sex and identity, and formulate a personal response to gender identity. Prerequisite: None.

(General Ed Humanities. Critical and Creative Thinking.)

WG 390 Human Trafficking and Modern Day Slavery (3)

An advanced undergraduate course that focuses on contemporary human trafficking and slavery. Types of trafficking and slavery to be covered include sex trafficking, bonded labor, forced labor, child soldiers, chattel slavery, and domestic servant slavery. The contributing roles of the state, organized crime, the media, culture, and corruption will be examined. Debates about defining trafficking and the connection between sex trafficking and prostitution will be reviewed. Course materials may include testimonies and autobiographies by survivors, research reports, theoretical essays, policy statements, expert testimonies, podcasts and videos. Prerequisite: Junior standing or permission of the instructor.

WG 395 Independent Study (0-3)

This course allows the student to pursue individualized scholarship with guidance from a professor. The format may vary in terms of the student's special interests, abilities, imagination, and creativity. May consist of a research paper, a comprehensive written examination on selected reading materials, an oral presentation, or a special performance utilizing one or more art forms or modes of expression. Prerequisite: Consent of Instructor.

WG 399 Special Topics (0-3)

Topics will vary from semester to semester and will be announced in advance. May be taken for more than one semester. Prerequisite: Varies by course and instructor.

WG 400 Women's/Gender Study Capstone (3)

The capstone is a required course that gives students a forum to synthesize and apply theories, methods and concepts that they have learned throughout their minor in Women and Gender Studies. Individualized advanced projects focused on women, gender and/or sexuality are designed in collaboration between the student and their WaGS adviser and can include a research paper, an internship, service learning or activist project. Prerequisite: Junior standing.

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