

CFC Meeting Agenda
Monday, January 29, 2024, 3 p.m.
Vogel

Adebanke Adebayo
John Burns
Jason Emry
Bill Fiander
Sam Finch
Karen Garrison
Andrew Herbig

Gary Hu
Kelly Huff
Lindsey Ibañez
Tucker Jones
Joseph Kendall-Morwick
Louise Krug
Wonjae Lee

Hoang Nguyen
Bruce Mactavish
Alex Myers
Michael O'Brien
Ian Smith
Lucy Tan
Brian Thomas

I. Call to Order

II. Approval of CFC Minutes from December 11, 2023

III. Accept Division Reports—None

IV. Accept Committee Reports—None

V. Old Business

A. Changes to Third-Year Review Faculty Review Form

VI. New Business

A. Curricular Changes

1. New Program Proposals

- a. Graduate Certificate in Communication and Leadership (p. 6)
- b. Mathematics Secondary Education: Core Mathematics 6-12 (p. 14)

2. Program Change Proposals

- a. Biology Minor (p. 21)
- b. Bachelor of Arts in Environmental Biology (p. 26)
- c. Bachelor of Science in Environmental Biology (p. 32)
- d. Bachelor of Science Forensic Biology (p. 40)
- e. Bachelor of Science Molecular Biology and Biotech (p. 47)
- f. Bachelor of Arts in Communication (p. 54)
- g. Associate of Science Engineering-Physics (p. 60)

VII. Discussion

- 3. Interdisciplinary Minors/Certificates—see email attachment that accompanied agenda
- 4. Bachelor of General Studies Degree
- 5. Catalog Language for Exceptions to CAS 99-credit Hour Rule

VIII. Concerns/Questions from CFC Members

IX. Announcements

- A. Jan. 29: Kansas Day Speaker, 7 p.m., Shawnee Room

- B. Feb. 7: CAS Faculty Meeting, 3 p.m. social; 3:30 p.m. meeting starts
- C. Feb. 8: Black History Month Banquet, 6-8 p.m., Washburn A/B
- D. Feb. 23-24, March 1-3: Brothers of the Dust play 7:30 p.m. (2 p.m. March 3)
- E. March 5: CAS Faculty Meeting, 3 p.m. social; 3:30 p.m. meeting starts
- F. March 5: Thomas King Lecture in Religious Studies, 7 p.m., Washburn A/B
- G. March 7: Community & Belonging: A Conversation with Poet Nikki Giovanni 6-7 p.m.,
Memorial Union, Ballroom

The 2024 WUmester topic is *Community and Belonging*. Please consider how you can incorporate the WUmester topic into your spring courses.

Add the CAS calendar to your Outlook view by choosing casmonthly. If you have any problems gaining access, email our Office 365 administrator at casey.matthews@washburn.edu.

X. Adjourn

CFC Meeting Minutes
Monday, December 11, 2023, 3 p.m.
Vogel

Adebanke Adebayo
John Burns
Jason Emry
Karen Garrison
Andrew Herbig
Kelly Huff

Tucker Jones
Joseph Kendall-Morwick
Louise Krug
Hoang Nguyen
Bruce Mactavish
Alex Myers

Michael O'Brien
Ian Smith
Lucy Tan
Kelly Erby
Dana King

- I. Call to Order (3:03pm)
- II. Approval of CFC Minutes from November 20, 2023
 - a. *Motion to approve*
 - b. *Seconded*
 - c. *Discussion – Jason Emry’s name was not included in the previous minutes.*
 - d. *Approved unanimously (pending revisions)*
- III. Accept Division Reports
 - a. Humanities Division—September 21, 2023
 - b. Social Science Division—October 27, 2023
 - c. Natural Science Division—November 17, 2023
- IV. Accept Committee Reports
 - a. Curriculum Committee—November 13, 2023
 - b. Curriculum Committee—December 4, 2023
 - i. *Motion to accept all of the above reports*
 - ii. *Seconded*
 - iii. *No Discussion*
 - iv. *Approved unanimously*
- V. Old Business
 - a. Changes to Third-Year Review Procedure Documents & Example Timelines
 - i. *Dean Erby provided a brief overview on the proposed changes.*
 1. *Comments from committee members:*
 - a. *More information about the type of feedback candidates will receive (and when they will receive this feedback) would be helpful.*
 - b. *There were some concerns about the proposed timeline document.*
 - c. *“Department” needs to be added before chairperson at the start of the second paragraph for point #6.*
 - ii. *Motion to approve the procedural changes*
 1. *Seconded*
 2. *No Discussion*

- 3. *Approved Unanimously*
- iii. *Vote on the revised form moved to after Winter Break*

VI. VI. New Business

- a. Curricular Changes
 - i. Program Change Proposals
 - 1. Bachelor of Science in Computer Information Sciences with Data Science Concentration
 - ii. *Brief discussion on the proposed changes. Previously there was a concern with the calculus requirement. The current changes make it clearer what classes students are expected to take.*
 - iii. *Motion to Approve*
 - iv. *Seconded*
 - v. *No Discussion*
 - vi. *Approved Unanimously*

VII. Discussion

- a. Additional CAS meeting dates 1/16/24 and 2/7/24
 - i. *Colleagues are encouraged to attend. We will need a quorum.*
- b. General Education
 - i. *Brief discussion on how some departments are concerned about the lack of computer literacy requirements.*
 - ii. *A complete list of approved general education courses are available and will be circulated to department chairs very soon.*
- c. Interdisciplinary Minors/Certificates
 - i. *Dean Erby has requested that faculty review the proposed changes to interdisciplinary minors/certificates.*
 - ii. *This will be submitted as one complete package and will go to each division for review/approval.*
 - iii. *This proposal will go through all of governance and WUBOR*

VIII. Concerns/Questions from CFC Members

- a. *None raised*

IX. Announcements

- a. Dec. 14 6-7:30 PM: Crane Observatory open
- b. Dec. 15 @ 5:30 PM: CAS Commencement Ceremony
- c. Dec. 20 by 10 AM: Submission of fall grades due
- d. Dec. 22-Jan. 1: University closed
- e. Jan. 12: Spring NSO
- f. Jan. 13: University classes begin & Washburn's Mulvane Art Museum celebrates its 100th anniversary. Watch for special events throughout 2024.
- g. Jan. 15: Martin Luther King, Jr. Day (University holiday)
- h. Jan. 16 @ 3 PM: CAS Faculty Meeting, Convocation Hall, BTAC
- i. Jan. 19: Deadline for Sweet Sabbatical applications
- j. Feb. 7 @ 3 PM: CAS Faculty Meeting, Pavilion Room

- k. March 5 @ 3 PM: CAS Faculty Meeting, Convocation Hall, BTAC
 - l. 2024 WUmester topic is Community and Belonging. Please consider how you can incorporate the WUmester topic into your spring courses.
 - m. Add the CAS calendar to your Outlook view by choosing casmonthly. If you have any problems gaining access, email our Office 365 administrator at casey.matthews@washburn.edu.
- X. Adjourn (3:42pm)

THIRD-YEAR REVIEW OF TENURE-TRACK FACULTY

DATE _____

NAME _____

DEPARTMENT _____

γ TEACHING:

γ RESEARCH, SCHOLARSHIP, AND PROFESSIONAL AND CREATIVE ACTIVITIES:

γ SERVICE:

_____ Is making satisfactory progress toward tenure and retention is recommended.

_____ Needs to accelerate progress toward tenure, but retention is recommended.

_____ Is not making satisfactory progress toward tenure and non-prejudicial non-retention is recommended.

Signature of Chairperson _____

Signature of Faculty Member _____

(The signature above does not necessarily indicate agreement with the evaluation.)

Signature of Dean _____

γ Supporting Materials Attached

W22511591Third-Year Review of Tenure-Track Faculty Form

Date:

Name of faculty member being reviewed:

Department of faculty member being reviewed:

Name of Department Chair Reviewer:

Please summarize and evaluate the contributions of the faculty member being reviewed in each of the three major areas of teaching; research, scholarship, and professional and creative activities; and service.

Teaching:

Research, Scholarship, and Professional and Creative Activities:

Service:

DRAFT

Please select one of the following recommendations regarding the faculty member being reviewed:

The current pace and trajectory of work demonstrates satisfactory progress toward tenure and promotion.

The pace of work in one or more areas needs to accelerate in order to achieve tenure and promotion.

Significant deficiencies in one or more areas demonstrate a lack of satisfactory progress toward tenure and promotion.

If Options 2 or 3 above are selected, please summarize below the areas of needed improvement to successfully meet the criteria for promotion and tenure.

Signature of Department Chairperson:

Signature of Faculty Member:

(The signature above does not necessarily indicate agreement with the evaluation.)

Signature of Dean:

DRAFT

Program Change Request

New Program Proposal

Date Submitted: 10/26/23 10:09 am

Viewing: : Graduate Certificate in Communication and Leadership

Last edit: 10/26/23 11:45 am

Changes proposed by: Jim Schnoebelen (jim.schnoebelen)

Catalog Pages

Using this Program

[Graduate Certificate in Communication and Leadership](#)

In Workflow

1. Acad Ops
2. CN Chair
3. Library
4. HUM Chair
5. CA Dean
6. CFCCC Chair
7. Assoc Dean CFC
8. CA Assoc Dean
9. Governance Check
10. Grad Council
11. Final Acad Ops
12. Registrar

General Information

Effective Catalog Edition	2024-2025
Department	Communication Studies
College	College of Arts and Sciences
Division	Humanities
Degree Level	Graduate
Program Title	Graduate Certificate in Communication and Leadership
Degree to be Offered	Certificate (CERT)

Approval Path

1. 10/26/23 11:48 am
Holly Broxterman (holly.broxterman):
Approved for Acad Ops
2. 10/26/23 12:34 pm
Jim Schnoebelen (jim.schnoebelen):
Approved for CN Chair
3. 10/27/23 6:09 am
Sean Bird (sean.bird):

Is this program offered completely online? Yes

Does this program lead to a teaching certification? No

Is this program an interdisciplinary program? Yes

Interdisciplinary Department Leadership Institute

CIP Code 090100 - Communication, General.

- Approved for Library
- 4. 11/14/23 8:53 pm
Ian Smith1
(ian.smith1):
Approved for HUM Chair
- 5. 11/28/23 12:34 pm
Kelly Erby
(kelly.erby):
Approved for CA Dean

New Program Header

Statement of Justification/Rationale for Offering the Program

The ability to communicate effectively in various settings and lead others in teams and organizations continues to be desirable among top employers. The MA in Communication and Leadership that Washburn currently offers has steady application, enrollment, and graduation rates. Adding this certificate will offer access to the courses within our MA program for two key populations: 1) those pursuing another graduate degree at Washburn who wish to add this academic credential to their current programs of study and 2) those who have an undergraduate degree and would like to pursue a valuable graduate credential but who cannot commit to a full degree program.

Offering a certificate in Communication and Leadership will also allow students currently enrolled in WU graduate programs who have elective hours as part of their degrees (i.e., Criminal Justice) access to a valuable additional credential for only a few additional hours of credit. This may prove beneficial in adding an incentive to enroll in such programs as these students may perceive getting more “bang for their buck” compared to similar programs that do not provide access to such certificates.

Finally, though our enrollment is consistent in MACNLE courses, this will likely result in a modest boost in our enrollment.

Program Demand

I have spoken with various directors of graduate programs and personnel on campus and have anecdotal evidence of demand. Several sources also continue to list Communication and Leadership among top 5 skills sought by new employers, so I believe this will have demand.

Projected Enrollment for the Initial Three Years of the Program

Implementation

Year 2

Full-Time Headcount Per Year	NA	Part-Time Headcount Per Year	2-5
------------------------------------	----	------------------------------------	-----

Full-Time Sem Credit Hrs Per Year	NA	Part-Time Sem Credit Hrs Per Year	2-5
---	----	--------------------------------------	-----

Year 3

Full-Time Headcount Per Year	NA	Part-Time Headcount Per Year	5-7
------------------------------------	----	------------------------------------	-----

Full-Time Sem Credit Hrs Per Year	NA	Part-Time Sem Credit Hrs Per Year	5-7
---	----	--------------------------------------	-----

Employment

Employment Opportunity Information

As I have noted in other sections above, "Communication" and "Leadership" are skills many employers want in new employees. It stands to reason that this demand will exist in higher echelons within organizations, as well. Our MA degree appeals to those seeking enhancement and advancement of current jobs, and I contend that this certificate will reflect a similar demand.

Admission and Curriculum

Admission Criteria

Admission to any Washburn graduate program OR meet the following criteria:
 Students with at least a 3.5 undergraduate GPA (cumulative or in their last 60 hours) can just fill in the application and submit transcripts and resume to be accepted.
 Students with a 3.0-3.49 undergraduate GPA (cumulative or in their last 60 hours) must

submit the application, transcripts, resume, and a writing sample from an undergraduate class.

Students with a 2.5-2.99 undergraduate GPA (cumulative or in their last 60 hours) must submit the application, transcript, resume, a writing sample from an undergraduate class, and at least one recommendation as currently facilitated via CollegeNet.

Students with an undergraduate GPA below a 2.5 (cumulative or in their last 60 hours) must submit the application, transcript, resume, a writing sample from an undergraduate course, and contact information for 3 persons who can provide a recommendation as currently facilitated via CollegeNet.

NOTE: Students with an UG GPA below a 2.5 GPA will be considered for conditional admission provided all other aspects of their application check out. This will require the student to maintain a 3.0 GPA in their first two courses in the program.

Total Number of 12
Semester Credit
Hours for the
Degree

Curriculum

Certificate Requirements

<u>CN 601</u>	Introduction to Graduate Study - Communication Study	3
<u>LE 601</u>	Self and Systems Leadership	3
Select one Communication course from the following:		3
<u>CN 630</u>	Communication-Conflict/Negotiation	
<u>CN 642</u>	Team Communication in Organizations	
<u>CN 645</u>	Community Dialogue & Deliberation	
<u>CN 650</u>	Persuasion	
Select one Leadership course from the following:		3
<u>LE 620</u>	Leadership/Resource Stewardship	
<u>LE 630</u>	Organization Improvement & Innovation	

LE 640

Public Policy & Global Leadership

Total Hours

12

Pathway

Core Faculty

Faculty Name	Jim Schnoebelen*
Rank	Professor
Highest Degree	Ph.D.
Tenure Track	Yes
Academic Area of Specialization	Communication Studies
FTE to Proposed Program	Unknown

Faculty Name	Lauren Edelman
Rank	
Highest Degree	Ph.D.
Tenure Track	No
Academic Area of Specialization	Leadership Studies
FTE to Proposed Program	Unknown

Faculty Name	Tracy Routsong
--------------	----------------

Rank	Professor
Highest Degree	Ph.D.
Tenure Track	Yes
Academic Area of Specialization	Communication Studies
FTE to Proposed Program	Unknown

Faculty Name	Adebanke Adebayo
Rank	Assistant Professor
Highest Degree	Ph.D.
Tenure Track	Yes
Academic Area of Specialization	Communication Studies
FTE to Proposed Program	Unknown

Faculty Name	Carson Kay
Rank	Assistant Professor
Highest Degree	Ph.D.
Tenure Track	Yes
Academic Area of Specialization	Communication Studies
FTE to Proposed Program	Unknown

Program

Faculty Name	Kevin O'Leary
Rank	Senior Lecturer
Highest Degree	Ph.D.
Tenure Track	No
Academic Area of Specialization	Communication Studies
FTE to Proposed Program	Unknown

Faculty Workload Analysis

Faculty Workload Analysis (describe how the course offering schedule and anticipated enrollments correlate to faculty lines)

The current course offerings will not be impacted; the proposed certificate would be composed of courses already taught for our MACNLE degree.

Supplemental
Files

Reviewer
Comments

Key: 411

Program Change Request

New Program Proposal

Date Submitted: 10/18/23 9:59 am

Viewing: : **Mathematics Secondary**

Education: Core Mathematics 6-12

Last edit: 01/23/24 10:37 am

Changes proposed by: Sarah Cook (sarah.cook)

In Workflow

1. Acad Ops
2. MA Chair
3. Library
4. ED Chair
5. NSM Chair
6. CA Dean
7. CFCCC Chair
8. Assoc Dean CFC
9. CA Assoc Dean
10. Governance Check
11. AA Committee
12. Faculty Senate
13. General Faculty
14. WUBOR
15. Final Acad Ops
16. Registrar

General Information

Effective Catalog Edition	2024-2025
Department	Mathematics and Statistics
College	College of Arts and Sciences
Division	Natural Science & Mathematics
Degree Level	Undergraduate
Program Title	Mathematics Secondary Education: Core Mathematics 6-12
Degree to be Offered	Bachelor of Education (BED)
Is this program offered completely online?	No
Does this program lead to a	Yes

Approval Path

1. 10/18/23 2:31 pm
Holly Broxterman (holly.broxterman):
Approved for Acad Ops
2. 10/18/23 2:42 pm
Sarah Cook (sarah.cook):
Approved for MA Chair

teaching
certification?

Is this program an interdisciplinary program? No

CIP Code 131311 - Mathematics Teacher Education.

- 3. 10/19/23 2:49 pm
Sean Bird
(sean.bird):
Approved for
Library
- 4. 10/19/23 2:58 pm
Cherry Steffen
(cherry.steffen):
Approved for ED
Chair
- 5. 10/22/23 1:33 pm
Andrew Herbig
(andrew.herbig):
Approved for NSM
Chair
- 6. 11/28/23 3:18 pm
Kelly Erby
(kelly.erby):
Approved for CA
Dean

New Program Header

Statement of Justification/Rationale for Offering the Program

The State of Kansas is developing a new licensure program for 6-12 mathematics. This license will be in addition to the existing 6-12 math licensure program. The new license will allow educators to teach only a restricted list of "core" secondary courses (geometry and below). The State is finishing the standards for this degree and is anticipating that Institutions will have a degree program available starting in the 2024-2025 academic year. It is important for Washburn to offer this new degree option to stay competitive with area institutions.

Program Demand

Since this is a new program developed by the State, we are assuming that the State

has done research to determine that the degree will be attractive to future educators. Currently students who want to teach middle school math can earn either an Elementary Education degree (through the Education Department) or a Math Secondary Education degree (through the Math Department). The proposed degree will be a mixture of courses from these two existing programs. This new degree will give students an option to focus on middle school mathematics while still obtaining their BEd from the Math Department. We have already had 3-5 students who have indicated a desire pursue this new degree.

Projected Enrollment for the Initial Three Years of the Program

Implementation

Year 2

Full-Time Headcount Per Year	5	Part-Time Headcount Per Year	0
Full-Time Sem Credit Hrs Per Year	150	Part-Time Sem Credit Hrs Per Year	0

Year 3

Full-Time Headcount Per Year	8	Part-Time Headcount Per Year	0
Full-Time Sem Credit Hrs Per Year	240	Part-Time Sem Credit Hrs Per Year	0

Employment

Employment Opportunity Information

Middle and High School math teachers are in extremely high demand. The Kansas State Department of Education website currently lists several openings for middle school and/or high school math teachers. We are aware that many positions went unfilled last year. Some schools are even resorting to emergency certifying community members to teach their high school core math courses (especially in rural communities)

Admission and Curriculum

Admission Criteria

Students will need to be admitted to the Department of Education under the same criteria as existing Education students.

Total Number of 120

Semester Credit

Hours for the
Degree

Curriculum

Mathematics Secondary Education: Core Mathematics 6-12

In addition to the requirements stated below, students must complete 34-35 hours of General Education, all requirements for a Bachelor of Education degree, and any additional hours needed to reach the minimum 120 credit hours required for graduation. Some of the courses below may also fulfill general education or other degree requirements. Please see your advisor for more information.

Degree Requirements

Required Courses Inside Mathematics Department

<u>MA 116</u>	College Algebra	3
<u>MA 117</u>	Trigonometry	3
<u>MA 140</u>	Statistics	3
<u>MA 151</u>	Calculus & Analytic Geometry I	5
<u>MA 200</u>	Number & Operation for Elementary Teachers	3
<u>MA 201</u>	Geometry, Proportion & Data Analysis for Elementary Teachers	3
<u>MA 204</u>	Number Theory and Discrete Math for Middle School Teachers	3
<u>MA 260</u>	Introduction to Number Theory	3
<u>MA 315</u>	Seminar: Teaching Mathematics	1
<u>MA 316</u>	Teaching Algebra	1
<u>MA 320</u>	Mathematics for Middle School Teachers	3
<u>MA 367</u>	Modern Geometry	3
<u>MA 381</u>	History and Literature of Mathematics	3
Subtotal		37
Required Courses Inside Education Department		
<u>ED 155</u>	Teaching, Learning, Leadership	3
<u>ED 165</u>	Ed. 1, Examining Teaching as a Profession: Diversity 1, Literacy 1, Technology 1	3
<u>ED 275</u>	Ed. 2 Exploring Teaching as a Profession (Classroom Management 1, Diversity 2, Technology 2) Ed. 2	3
<u>ED 285</u>	Educational Psychology	3
<u>ED 295</u>	Ed. 3 Experiencing Teaching as a Profession (Classroom Management 2, Diversity 3, Literacy 2)	3
<u>ED 302</u>	Teaching Exceptional Learners	3
<u>ED 321</u>	STEM Practicum II	1

<u>ED 340</u>	Teaching in Adolescent Middle Level Environment	2
<u>ED 349</u>	Middle Level Mathematics Practicum	1
<u>ED 354</u>	Curriculum and Assessment	3
<u>ED 363</u>	Methods of Teaching Math in Secondary School	3
<u>ED 395</u>	Ed. 4 Extending Teaching as a Profession (Classroom Management 3, Literacy 3, Technology 3)	3
<u>ED 410</u>	Secondary Student Teaching	12
Subtotal		43
Required Courses Inside Other Departments		
<u>PY 211</u>	Adolescent Psychology	3
Subtotal		3
Total Hours		83
Pathway		

Core Faculty

Faculty Name	Janet Sharp
Rank	Professor
Highest Degree	Doctorate
Tenure Track	Yes
Academic Area of Specialization	Math Education
FTE to Proposed Program	.75

Faculty Name Jennifer Wagner

Rank	Professor
Highest Degree	Doctorate
Tenure Track	Yes
Academic Area of Specialization	Combinatorics
FTE to Proposed Program	.25

Faculty Workload Analysis

Faculty Workload Analysis (describe how the course offering schedule and anticipated enrollments correlate to faculty lines)

Every course in this degree program is a course required for either the existing Elementary Education Middle School Math/STEM degree or the existing Secondary Education Mathematics degree (see attachment). Thus, our course offering schedule will not change in the near future. While we expect larger enrollments in the math courses required for this degree, we do not expect the enrollment sizes to require additional sections of the courses in the near future.

Supplemental Files [Comparison of Math BEds.pdf](#)

Reviewer

Comments

Beth O'Neill (beth.oneill) (10/18/23 12:36 pm): Format changes needed for catalog degree requirement standardization completed.

Beth O'Neill (beth.oneill) (01/23/24 10:36 am): Program name changed to reflect KSDE licensure wording, as requested by Sarah Cook.

Program Change Request

Date Submitted: 11/10/23 4:13 pm

Viewing: **BI-MNR : Biology Minor**

Last approved: 09/30/22 9:34 am

Last edit: 11/10/23 4:13 pm

Changes proposed by: John Mullican (john.mullican)

Catalog Pages

Using this

Program

[Biology, Minor](#)

Change Type

[Significant](#)

Summarize

Changes and

Include Rationale

In Workflow

1. Acad Ops
2. BI Chair
3. Library
4. NSM Chair
5. CA Dean
6. CFCCC Chair
7. Assoc Dean CFC
8. CA Assoc Dean
9. Governance
Check
10. AA Committee
11. Faculty Senate
12. General Faculty
13. WUBOR
14. Final Acad Ops
15. Registrar

Approval Path

1. 11/10/23 4:17 pm
Holly Broxterman
(holly.broxterman):
Approved for Acad
Ops
2. 11/13/23 10:28 am
John Mullican
(john.mullican):
Approved for BI
Chair
3. 11/13/23 10:43 am

Sean Bird
(sean.bird):
Approved for
Library

4. 11/17/23 3:29 pm
Andrew Herbig
(andrew.herbig):
Approved for NSM
Chair
5. 11/28/23 12:36 pm
Kelly Erby
(kelly.erby):
Approved for CA
Dean

History

1. Jun 13, 2022 by
Joseph Desota
(joseph.desota)
2. Jul 11, 2022 by
Steve Luoma
(steven.luoma)
3. Jul 16, 2022 by
Steve Luoma
(steven.luoma)
4. Jul 16, 2022 by
Steve Luoma
(steven.luoma)
5. Sep 30, 2022 by
Holly Broxterman
(holly.broxterman)
6. Sep 30, 2022 by
Holly Broxterman
(holly.broxterman)

We are reducing the number of credit hours from 20 to 17 with 7 hours as upper division. Previously, 8 hours of upper division were required. The rationale is that many students who select the minor generally take 7 hours of upper division coursework (1 3-credit hour course and 1 4-credit hour course) after taking the required 10 hours of lower division coursework. We do not currently offer a 1-credit hour upper division course that is meant for non-majors to fulfill that final 1 credit of upper division biology.

General Information

Effective Catalog Edition	2024-2025
Department	Biology
College	College of Arts and Sciences
Division	Natural Science & Mathematics
Degree Level	Undergraduate
Program Title	Biology Minor
Degree to be Offered	Minor (MINOR)
Is this program offered completely online?	<u>No</u>
Does this program lead to a teaching certification?	No
Is this program an interdisciplinary program?	No
CIP Code	<u>260101 - Biology/Biological Sciences.</u>

General.

Admission and Curriculum

Admission Criteria

Total Number of
Semester Credit
Hours for the
Degree

Curriculum

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 ~~17-hour~~ ~~twenty-hour~~ minimum must be met with course work appropriate for Biology majors with at least ~~7~~ ~~8~~ hours of upper-division biology coursework. No fewer than ~~7~~ ~~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.

Required Courses Inside Department

BI 102	General Cellular Biology	5
-------------------	-------------------------------------	--------------

BI 103	General Organismal Biology	5
-------------------	---------------------------------------	--------------

~~Elective BI courses~~

<u>BI 192</u>	<u>General Cellular Biology</u>	<u>5</u>
---------------	---------------------------------	----------

<u>BI 194</u>	<u>General Organismal Biology</u>	<u>5</u>
---------------	-----------------------------------	----------

At least two 300-level or higher elective BI courses	7
--	---

~~Subtotal~~

Total Hours	17
-------------	----

Pathway

Faculty Workload Analysis (describe how the course offering schedule and anticipated enrollments correlate to faculty lines)

Supplemental
Files

Reviewer
Comments

Key: 283

Program Change Request

Date Submitted: 11/13/23 4:47 pm

Viewing: **EB-BA : BI: Environmental
Biology BA**

Last approved: 09/30/22 11:54 am

Last edit: 12/13/23 10:29 am

Changes proposed by: John Mullican (john.mullican)

Catalog Pages

Using this

Program

[Environmental Biology, BA and BS](#)

Change Type

Significant

Summarize

Changes and

Include Rationale

In Workflow

1. Acad Ops
2. BI Chair
3. Library
4. NSM Chair
5. CA Dean
6. CFCCC Chair
7. Assoc Dean CFC
8. CA Assoc Dean
9. Governance
Check
10. AA Committee
11. Faculty Senate
12. General Faculty
13. WUBOR
14. Final Acad Ops
15. Registrar

Approval Path

1. 11/13/23 5:12 pm
Holly Broxterman
(holly.broxterman):
Approved for Acad
Ops
2. 11/13/23 5:30 pm
John Mullican
(john.mullican):
Approved for BI
Chair
3. 11/13/23 6:03 pm

- Sean Bird
(sean.bird):
Approved for
Library
4. 11/17/23 3:30 pm
Andrew Herbig
(andrew.herbig):
Approved for NSM
Chair
5. 11/28/23 12:33 pm
Kelly Erby
(kelly.erby):
Approved for CA
Dean
6. 11/30/23 12:37 pm
Holly Broxterman
(holly.broxterman):
Rollback to BI
Chair for CFCCC
Chair
7. 11/30/23 12:46 pm
John Mullican
(john.mullican):
Approved for BI
Chair
8. 11/30/23 12:54 pm
Sean Bird
(sean.bird):
Approved for
Library
9. 11/30/23 4:43 pm
Andrew Herbig
(andrew.herbig):
Approved for NSM
Chair

10. 01/09/24 9:21 am
 Kelly Erby
 (kelly.erby):
 Approved for CA
 Dean

History

1. Apr 21, 2022 by
 clmig-jwillging
2. Sep 30, 2022 by
 Holly Broxterman
 (holly.broxterman)

We are making a few changes to the Environmental Biology major for both the BA and BS degrees. Now that this major is a decade old, it is time to update the program with some minor changes that also address the new General Education requirements. These changes include updating course number changes (BI 102 to BI 192, and BI 103 to BI 194), adding BI 203 and BI 314 as required courses, removing MA 140 as a required course, removing an additional math course, and reducing elective credits to 10 (from 15).

General Information

Effective Catalog Edition	2024-2025
Department	Biology
College	College of Arts and Sciences
Division	Natural Science & Mathematics
Degree Level	Undergraduate
Program Title	BI: Environmental Biology BA
Degree to be	Bachelor of Arts (BA)

Offered

Is this program offered completely online? No

Does this program lead to a teaching certification? No

Is this program an interdisciplinary program? No

CIP Code 261305 - Environmental Biology.

Admission and Curriculum

Admission Criteria

Total Number of Semester Credit Hours for the Degree

Curriculum

Degree Requirements

Environmental Biology, BA

In addition to the requirements stated below, students must complete 34-35 hours of General Education, all requirements for a Bachelor of Arts degree, and any additional hours needed to reach the minimum 120 credit hours required for graduation. Some of the courses below may also fulfill

general education or other degree requirements. Please see your advisor for more information.

Required Courses Inside Department

BI 102	General Cellular Biology	5
BI 103	General Organismal Biology	5
<u>BI 192</u>	<u>General Cellular Biology</u>	<u>5</u>
<u>BI 194</u>	<u>General Organismal Biology</u>	<u>5</u>
<u>BI 203</u>	<u>Human Impact on the Environment</u>	<u>3</u>
<u>BI 310</u>	Ecology	4
<u>BI 314</u>	<u>Statistics for Biologists</u>	<u>3</u>
<u>BI 333</u>	General Genetics	4
<u>BI 340</u>	Evolutionary Biology	3
<u>BI 390</u>	Biology Seminar (Capstone Course)	1
<u>BI 395</u>	Research in Biology (Capstone Course)	1
<u>Biology Electives</u> ¹		<u>10</u>
Subtotal		39

Required Courses Outside Department

~~biology electives/-⁺~~ ~~15~~

~~Non-Biology Course~~

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

~~Additional Math Course~~

MA 140	Statistics	3-5
or MA 151	Calculus & Analytic Geometry I	

SubtotalMA 116College Algebra3

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

67

1

With a minimum of 7 hours from the Organismal Biology Elective list, with at least 1 course from Field Electives Section.

~~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.~~

Pathway

Faculty Workload Analysis (describe how the course offering schedule and anticipated enrollments correlate to faculty lines)

Supplemental
Files

Reviewer

Comments

Holly Broxterman (holly.broxterman) (11/30/23 12:37 pm): Rollback: Need to add MA 116 to program, rolling back to BI Chair to edit and review.

John Mullican (john.mullican) (11/30/23 12:45 pm): Adding MA 116 as a program requirement.

Key: 51

Program Change Request

Date Submitted: 11/13/23 4:47 pm

Viewing: **EB-BS : BI: Environmental
Biology BS**

Last approved: 09/30/22 11:54 am

Last edit: 12/13/23 10:29 am

Changes proposed by: John Mullican (john.mullican)

Catalog Pages

Using this

Program

[Environmental Biology, BA and BS](#)

Change Type

Significant

Summarize

Changes and

Include Rationale

In Workflow

1. Acad Ops
2. BI Chair
3. Library
4. NSM Chair
5. CA Dean
6. CFCCC Chair
7. Assoc Dean CFC
8. CA Assoc Dean
9. Governance
Check
10. AA Committee
11. Faculty Senate
12. General Faculty
13. WUBOR
14. Final Acad Ops
15. Registrar

Approval Path

1. 11/13/23 5:12 pm
Holly Broxterman
(holly.broxterman):
Approved for Acad
Ops
2. 11/13/23 5:30 pm
John Mullican
(john.mullican):
Approved for BI
Chair
3. 11/13/23 6:02 pm

- Sean Bird
(sean.bird):
Approved for
Library
4. 11/17/23 3:30 pm
Andrew Herbig
(andrew.herbig):
Approved for NSM
Chair
5. 11/28/23 12:33 pm
Kelly Erby
(kelly.erby):
Approved for CA
Dean
6. 11/30/23 12:37 pm
Holly Broxterman
(holly.broxterman):
Rollback to BI
Chair for CFCCC
Chair
7. 11/30/23 12:46 pm
John Mullican
(john.mullican):
Approved for BI
Chair
8. 11/30/23 12:54 pm
Sean Bird
(sean.bird):
Approved for
Library
9. 11/30/23 4:43 pm
Andrew Herbig
(andrew.herbig):
Approved for NSM
Chair

10. 01/09/24 9:21 am
Kelly Erby
(kelly.erby):
Approved for CA
Dean

History

1. Apr 21, 2022 by
clmig-jwillging
2. Jul 11, 2022 by
Steve Luoma
(steven.luoma)
3. Sep 30, 2022 by
Holly Broxterman
(holly.broxterman)

We are making a few changes to the Environmental Biology major for both the BA and BS degrees. Now that this major is a decade old, it is time to update the program with some minor changes that also address the new General Education requirements. For the BS, these changes include updating course number changes (BI 102 to BI 192, and BI 103 to BI 194), adding BI 203 and BI 314 as required courses, removing MA 140 as a required course, and reducing elective credits to 16 (from 21).

General Information

Effective Catalog Edition	2024-2025
Department	Biology
College	College of Arts and Sciences
Division	Natural Science & Mathematics
Degree Level	Undergraduate
Program Title	BI: Environmental Biology BS

Degree to be Offered	Bachelor of Science (BS)
Is this program offered completely online?	<u>No</u>
Does this program lead to a teaching certification?	No
Is this program an interdisciplinary program?	No
CIP Code	<u>261305 - Environmental Biology.</u>

Admission and Curriculum

Admission Criteria

Total Number of Semester Credit Hours for the Degree

Curriculum

Degree Requirements

Environmental Biology, BS

In addition to the requirements stated below, students must complete 34-35 hours of General Education, all requirements for a Bachelor of Science degree, and any additional hours needed to

reach the minimum 120 credit hours required for graduation. Some of the courses below may also fulfill general education or other degree requirements. Please see your advisor for more information.

Required Courses Inside Department

BI 102	General Cellular Biology	5
BI 103	General Organismal Biology	5
<u>BI 192</u>	<u>General Cellular Biology</u>	<u>5</u>
<u>BI 194</u>	<u>General Organismal Biology</u>	<u>5</u>
<u>BI 203</u>	<u>Human Impact on the Environment</u>	<u>3</u>
<u>BI 310</u>	Ecology	4
<u>BI 314</u>	Statistics for Biologists	3
MA 140	Statistics	

~~Additional Math Course~~

<u>BI 333</u>	General Genetics	4
<u>BI 340</u>	Evolutionary Biology	3
<u>BI 390</u>	Biology Seminar (Capstone Course)	1
<u>BI 395</u>	Research in Biology (Capstone Course)	1
<u>biology electives/</u> ¹		16

~~Non-Biology Course~~

Required Courses Outside Department

<u>CH 151</u> & <u>CH 152</u>	Fundamentals of Chemistry I and Fundamentals of Chemistry II	10
<u>CH 340</u> & <u>CH 342</u>	Organic Chemistry I and Organic Chemistry Lab I	5

~~Quantitative Course~~

Select one of the following:		3
<u>MA 116</u>	<u>College Algebra</u>	<u>3</u>

<u>MA 151</u>	Calculus & Analytic Geometry I	5
Natural Sciences Concentration		
complete natural sciences concentration/ ²		5
Select one of the following physics sequences:		10
<u>PS 261</u> & <u>PS 262</u>	College Physics I and College Physics II	
<u>PS 281</u> & <u>PS 282</u>	General Physics I and General Physics II	
Total Hours		78

¹ With a minimum of 11 hours from the Organismal Biology Elective list, with at least 1 course from the Field Electives Section.

² ~~Typically, this is satisfied by completing the non-Biology required correlate courses plus 5 additional credits of Chemistry coursework~~

~~**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. 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: Fundamentals of Chemistry IGH 151 or above, College Physics IPS 261 or above, College Algebra MA 116 or above, Introduction to Structured Programming CM 111 or above. Elective Supportive Organismal Courses for the BA/BS degree in Environmental Biology:~~

<u>BI 301</u>	General Microbiology	4
<u>BI 303</u>	Invertebrate Zoology	4
<u>BI 305</u>	Parasitology	4
<u>BI 314</u>	Statistics for Biologists	3
<u>BI 322</u>	Advanced General Botany	4
<u>BI 328</u>	Plant Anatomy and Physiology	3
<u>BI 330</u>	Animal Physiology	4
<u>GG 300</u>	Special Topics/Geography (Introduction to GIS)	3
Field Electives Section		

BI 300	Field Biology	3
BI 302	Entomology	4
BI 311	Field Ecology	3
BI 312	Behavioral Ecology	4
BI 315	Vertebrate Zoology	4
BI 324	Systematic Botany	3

Pathway

Faculty Workload Analysis (describe how the course offering schedule and anticipated enrollments correlate to faculty lines)

Supplemental
Files

Reviewer

Comments

Holly Broxterman (holly.broxterman) (11/30/23 12:37 pm): Rollback: Need to add MA 116 to program, rolling back to BI Chair to edit and review.

John Mullican (john.mullican) (11/30/23 12:45 pm): Adding MA 116 as a program requirement.

Key: 52

Program Change Request

Date Submitted: 11/13/23 12:07 pm

Viewing: **FB-BS : BI: Forensic Biology BS**

Last approved: 09/30/22 11:56 am

Last edit: 11/30/23 12:46 pm

Changes proposed by: John Mullican (john.mullican)

Catalog Pages

Using this

Program

[Forensic Biology, BS](#)

Change Type

Significant

Summarize

Changes and

Include Rationale

In Workflow

1. Acad Ops
2. BI Chair
3. Library
4. NSM Chair
5. CA Dean
6. CFCCC Chair
7. Assoc Dean CFC
8. CA Assoc Dean
9. Governance Check
10. AA Committee
11. Faculty Senate
12. General Faculty
13. WUBOR
14. Final Acad Ops
15. Registrar

Approval Path

1. 11/13/23 1:53 pm
Holly Broxterman (holly.broxterman):
Approved for Acad Ops
2. 11/13/23 1:59 pm
John Mullican (john.mullican):
Approved for BI Chair
3. 11/13/23 6:01 pm

- Sean Bird
(sean.bird):
Approved for
Library
4. 11/17/23 3:30 pm
Andrew Herbig
(andrew.herbig):
Approved for NSM
Chair
5. 11/28/23 12:44 pm
Kelly Erby
(kelly.erby):
Approved for CA
Dean
6. 11/30/23 12:37 pm
Holly Broxterman
(holly.broxterman):
Rollback to BI
Chair for CFCCC
Chair
7. 11/30/23 12:46 pm
John Mullican
(john.mullican):
Approved for BI
Chair
8. 11/30/23 12:54 pm
Sean Bird
(sean.bird):
Approved for
Library
9. 11/30/23 4:44 pm
Andrew Herbig
(andrew.herbig):
Approved for NSM
Chair

10. 01/09/24 9:21 am
 Kelly Erby
 (kelly.erby):
 Approved for CA
 Dean

History

1. Apr 21, 2022 by
 clmig-jwillging
2. Sep 30, 2022 by
 Holly Broxterman
 (holly.broxterman)

We are making a number of changes to the Forensic Biology major to align the degree program with FEPAC accreditation standards and to address the new General Education requirements. These changes include updating course number changes (BI 102 to BI 192, and BI 103 to BI 194), adding BI 301 as a required course, adding biology research credits (from 1 to 3), reducing biology elective credits to zero (from 11), removing CJ 410 (as this is covered in another course), and providing an option of taking either biochem I with lab (CH 350 and CH 351) or immunology with lab (BI 362 and 363). We also removed the "Capstone" designation for Biology Seminar and Forensic Molecular Biology to align with FEPAC standards.

General Information

Effective Catalog Edition	2024-2025
Department	Biology
College	College of Arts and Sciences
Division	Natural Science & Mathematics
Degree Level	Undergraduate
Program Title	BI: Forensic Biology BS

Degree to be Offered	Bachelor of Science (BS)
Is this program offered completely online?	<u>No</u>
Does this program lead to a teaching certification?	No
Is this program an interdisciplinary program?	No
CIP Code	<u>430106 - Forensic Science and Technology.</u>

Admission and Curriculum

Admission Criteria

Total Number of Semester Credit Hours for the Degree

Curriculum

Degree Requirements

In addition to the requirements stated below, students must complete 34-35 hours of General Education, all requirements for a Bachelor of Science degree, and any additional hours needed to reach the minimum 120 credit hours required for graduation. Some of the courses below may also

fulfill general education or other degree requirements. Please see your advisor for more information.

Required Courses Inside Department

BI 102	General Cellular Biology	5
BI 103	General Organismal Biology	5
<u>BI 192</u>	<u>General Cellular Biology</u>	<u>5</u>
<u>BI 194</u>	<u>General Organismal Biology</u>	<u>5</u>
<u>BI 301</u>	<u>General Microbiology</u>	<u>4</u>
<u>BI 314</u>	Statistics for Biologists	3
<u>BI 333</u>	General Genetics	4
<u>BI 353</u>	Molecular Genetics	3
<u>BI 354</u>	Molecular Biology Laboratory	3
<u>BI 390</u>	Biology Seminar	1
<u>BI 395</u>	Research in Biology (Capstone Course)	3
<u>BI 420</u>	Forensic Molecular Biology	4

Required Courses Outside Department

BI electives (300-level or higher)		11
<u>CH 151</u>	Fundamentals of Chemistry I	5
<u>CH 152</u>	<u>Fundamentals of Chemistry II</u>	<u>5</u>
<u>CH 202</u>	Professional Forensic Science Seminar	2
<u>CH 323</u>	Advanced Forensic Chemistry	4
<u>CH 340</u>	Organic Chemistry I	3
<u>CH 342</u>	<u>Organic Chemistry Lab I</u>	<u>2</u>
<u>CH 341</u>	Organic Chemistry II	3
<u>CH 343</u>	<u>Organic Chemistry Lab II</u>	<u>2</u>
<u>CJ 115</u>	Introduction to Forensic Investigations	3

CJ 410	Criminal Procedure and Evidence	3
<u>CJ 415</u>	Advanced Forensic Investigations	3
<u>CJ 416</u>	Forensic Applied Science Laboratory	3
<u>MA 116</u>	<u>College Algebra</u>	<u>3</u>
<u>MA 151</u>	Calculus & Analytic Geometry I	5
<u>PH 102</u>	Ethics: Introduction to Moral Problems	3
or <u>PH 214</u>	Medical Ethics	
Select one of the following physics sequences:		10
<u>PS 261</u> & <u>PS 262</u>	College Physics I and College Physics II (1 year with lab)	
<u>PS 281</u> & <u>PS 282</u>	General Physics I and General Physics II (1 year with lab)	

Additional Required Courses

<u>Select one of the following sequences:</u>		<u>5</u>
<u>BI 362</u> & <u>BI 363</u>	<u>Immunology</u> <u>and Immunology Laboratory</u>	
<u>CH 350</u> & <u>CH 351</u>	Biochemistry I and Biochemistry Lab	

Total Hours 96

~~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.~~

Pathway

Faculty Workload Analysis (describe how the course offering schedule and anticipated enrollments correlate to faculty lines)

Supplemental
Files

Reviewer

Comments

Holly Broxterman (holly.broxterman) (11/30/23 12:37 pm): Rollback: Need to add MA 116 to program, rolling back to BI Chair to edit and review.

John Mullican (john.mullican) (11/30/23 12:46 pm): Adding MA 116 as a program requirement.

Key: 81

Program Change Request

Date Submitted: 11/13/23 12:07 pm

Viewing: **MB-BS : BI: Molecular Bio & Biotech BS**

Last approved: 09/30/22 12:04 pm

Last edit: 11/30/23 12:46 pm

Changes proposed by: John Mullican (john.mullican)

Catalog Pages

Using this

Program

[Molecular Biology and Biotechnology, BS](#)

Change Type

Significant

Summarize

Changes and

Include Rationale

In Workflow

1. Acad Ops
2. BI Chair
3. Library
4. NSM Chair
5. CA Dean
6. CFCCC Chair
7. Assoc Dean CFC
8. CA Assoc Dean
9. Governance Check
10. AA Committee
11. Faculty Senate
12. General Faculty
13. WUBOR
14. Final Acad Ops
15. Registrar

Approval Path

1. 11/13/23 1:53 pm
Holly Broxterman
(holly.broxterman):
Approved for Acad Ops
2. 11/13/23 1:59 pm
John Mullican
(john.mullican):
Approved for BI Chair
3. 11/13/23 6:01 pm

- Sean Bird
(sean.bird):
Approved for
Library
4. 11/17/23 3:30 pm
Andrew Herbig
(andrew.herbig):
Approved for NSM
Chair
5. 11/28/23 12:46 pm
Kelly Erby
(kelly.erby):
Approved for CA
Dean
6. 11/30/23 12:38 pm
Holly Broxterman
(holly.broxterman):
Rollback to BI
Chair for CFCCC
Chair
7. 11/30/23 12:46 pm
John Mullican
(john.mullican):
Approved for BI
Chair
8. 11/30/23 12:54 pm
Sean Bird
(sean.bird):
Approved for
Library
9. 11/30/23 4:44 pm
Andrew Herbig
(andrew.herbig):
Approved for NSM
Chair

10. 01/09/24 9:23 am
 Kelly Erby
 (kelly.erby):
 Approved for CA
 Dean

History

1. Apr 21, 2022 by
 clmig-jwillging
2. Sep 30, 2022 by
 Holly Broxterman
 (holly.broxterman)

We are making a number of changes to the Molecular Biology & Biotechnology major to address the new General Education requirements and to update the curriculum now that the program is about 10 years old. These changes include updating course number changes (BI 102 to BI 192, and BI 103 to BI 194), adding BI 314 as a required course, removing MA 140 as a required course, providing a math option (MA 117, MA 123, or MA 151), and reducing elective credits to 6 (from 8),

General Information

Effective Catalog Edition	2024-2025
Department	Biology
College	College of Arts and Sciences
Division	Natural Science & Mathematics
Degree Level	Undergraduate
Program Title	BI: Molecular Bio & Biotech BS
Degree to be Offered	Bachelor of Science (BS)

Is this program offered completely online? No

Does this program lead to a teaching certification? No

Is this program an interdisciplinary program? No

CIP Code 260204 - Molecular Biology.

Admission and Curriculum

Admission Criteria

Total Number of Semester Credit Hours for the Degree

Curriculum

Degree Requirements

In addition to the requirements stated below, students must complete 34-35 ~~The Bachelor of Science (BS) degree in Molecular Biology and Biotechnology (MBB) requires a 34-hour BI core, 44~~ hours of General Education, all requirements for a Bachelor of Science degree, and any additional hours needed to reach the minimum 120 credit hours required for graduation. Some of the courses below may also fulfill general education ~~non-biology courses, and 8 additional BI or other degree requirements. Please see your advisor for more information. CH hours elective hours.~~

Required Courses Inside Department

BI 102	General Cellular Biology	5
BI 103	General Organismal Biology	5
<u>BI 192</u>	<u>General Cellular Biology</u>	<u>5</u>
<u>BI 194</u>	<u>General Organismal Biology</u>	<u>5</u>
<u>BI 234</u>	Introduction to Biotechnology	3
<u>BI 301</u>	General Microbiology	4
<u>BI 314</u>	<u>Statistics for Biologists</u>	<u>3</u>
<u>BI 333</u>	General Genetics	4
<u>BI 353</u>	Molecular Genetics	3
<u>BI 354</u>	Molecular Biology Laboratory	3
<u>BI 390</u>	Biology Seminar	1
<u>BI 395</u>	Research in Biology	3
<u>BI 440</u>	Biotechnology Internship	3
Subtotal		37

Required Courses Outside Department

<u>CH 151</u> & <u>CH 152</u>	Fundamentals of Chemistry I and Fundamentals of Chemistry II (1 year with lab)	10
<u>CH 340</u> & <u>CH 342</u>	Organic Chemistry I and Organic Chemistry Lab I (with lab)	5
<u>CH 341</u>	Organic Chemistry II	3
<u>CH 350</u> & <u>CH 351</u>	Biochemistry I and Biochemistry Lab (1 semester with lab)	5
MA 140	Statistics	3
MA 151	Calculus & Analytic Geometry I	5
<u>MA 116</u>	<u>College Algebra</u>	<u>3</u>

<u>MA 117</u>	<u>Trigonometry</u>	<u>3-5</u>
or <u>MA 123</u>	<u>Pre-Calculus</u>	
or <u>MA 151</u>	<u>Calculus & Analytic Geometry I</u>	
<u>PH 214</u>	Medical Ethics	3
or <u>PH 317</u>	Ethics of Genetic Technologies	
Select one of the following physics sequences:		10
<u>PS 261</u> & <u>PS 262</u>	College Physics I and College Physics II (1 year with lab)	
<u>PS 281</u> & <u>PS 282</u>	General Physics I and General Physics II (1 year with lab)	
Subtotal		42-44
Additional Required Courses		
<u>elective supportive courses/</u>		6
Subtotal		6
Total Hours		85-87

~~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.~~ **Elective Supportive Courses**

<u>BI 322</u>	Advanced General Botany	4
<u>BI 325</u>	Microbiology of Human Disease	5
<u>BI 328</u>	Plant Anatomy and Physiology	3
<u>BI 330</u>	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

Pathway

Faculty Workload Analysis (describe how the course offering schedule and anticipated enrollments correlate to faculty lines)

Supplemental Files

Reviewer

Comments

Holly Broxterman (holly.broxterman) (11/30/23 12:38 pm): Rollback: Need to add MA 116 to program, rolling back to BI Chair to edit and review.

John Mullican (john.mullican) (11/30/23 12:46 pm): Adding MA 116 as a program requirement.

Key: 142

Program Change Request

Date Submitted: 11/06/23 3:40 pm

Viewing: **CN : CN: Communication Major**

Last approved: 11/02/23 10:39 am

Last edit: 01/19/24 10:17 am

Changes proposed by: Jim Schnoebelen (jim.schnoebelen)

Catalog Pages

Using this

Program

[Communication Studies, BA](#)

Change Type **Not** Significant

Summarize

Changes and

Include Rationale

In Workflow

1. Acad Ops
2. CN Chair
3. Library
4. HUM Chair
5. CA Dean
6. CFCCC Chair
7. Assoc Dean CFC
8. CA Assoc Dean
9. Governance Check
10. AA Committee
11. Faculty Senate
12. General Faculty
13. WUBOR
14. Final Acad Ops
15. Registrar

Approval Path

1. 11/06/23 4:22 pm
Beth O'Neill
(beth.oneill):
Approved for Acad Ops
2. 11/06/23 4:26 pm
Jim Schnoebelen
(jim.schnoebelen):
Approved for CN Chair
3. 11/06/23 6:34 pm

Sean Bird
(sean.bird):
Approved for
Library

4. 11/14/23 8:53 pm

Ian Smith1
(ian.smith1):
Approved for HUM
Chair

5. 11/28/23 11:52 am

Kelly Erby
(kelly.erby):
Approved for CA
Dean

History

1. Apr 21, 2022 by
clmig-jwillging
2. Jul 19, 2022 by
Steve Luoma
(steven.luoma)
3. Mar 29, 2023 by
Jim Schnoebelen
(jim.schnoebelen)
4. Aug 22, 2023 by
Holly Broxterman
(holly.broxterman)
5. Nov 2, 2023 by
Holly Broxterman
(holly.broxterman)

Due to the new general education requirements, students will now be required to complete a minor, certificate, or additional major. This will replace the general education credit hours that are no longer required and allow students to choose a complementary

area of study.

General Information

Effective Catalog Edition	2024-2025
Department	Communication Studies
College	College of Arts and Sciences
Division	Humanities
Degree Level	Undergraduate
Program Title	CN: Communication Major
Degree to be Offered	Bachelor of Arts (BA)
Is this program offered completely online?	<u>Yes</u>
Does this program lead to a teaching certification?	No
Is this program an interdisciplinary program?	No
CIP Code	090100 - Communication, General.

Admission and Curriculum

Admission Criteria

Total Number of
Semester Credit
Hours for the
Degree
Curriculum

Degree Requirements

In addition to the requirements stated below, students must complete 34-35 hours of General Education, all requirements for a [Bachelor of Arts](#) degree, and any additional hours needed to reach the minimum 120 credit hours required for graduation. Some of the courses below may also fulfill general education or other degree requirements. Please see your advisor for more information.

In addition, all Communication (BA) majors must complete a complementary minor, certificate, or additional major; students must declare this with the department that grants it.

Required Courses Inside Department ¹

CN 101	Introduction to Communication Studies	3
CN 150	Public Speaking	3
CN 302	Communication Theory	3
CN 303	Research Methods	3
or CN 304	Qualitative Communication Research Methods	
or CN 305	Quantitative Communication Research Methods	
CN 498	Senior Capstone	3
or CN 491	Senior Capstone Internship	
Elective Courses - Select 21 hours from the following:		21
CN 154	Debate ²	
or CN 343	Debate	
CN 306	Health Communication	
CN 307	Communication in Legal Process	

<u>CN 308</u>	Organizational Communication
<u>CN 309</u>	Political Communication
<u>CN 330</u>	Communication in Conflict and Negotiation
<u>CN 340</u>	Interviewing
<u>CN 341</u>	Persuasive Speaking
<u>CN 342</u>	Communication-Teams and Groups
<u>CN 350</u>	Persuasion
<u>CN 351</u>	Special Topics in Interpersonal Communication
<u>CN 352</u>	Truth and Deception
<u>CN 353</u>	Environmental Communication
<u>CN 354</u>	Reputation Management
<u>CN 361</u>	Communication in Social Movements
<u>CN 362</u>	Sexual Communication
<u>CN 363</u>	Intercultural Communication
<u>CN 364</u>	Gender Communication
<u>CN 365</u>	Business/Professional Presentation
<u>CN 366</u>	Nonverbal Communication
<u>CN 367</u>	Crisis Communication
<u>CN 368</u>	The Rhetoric of Hip Hop and Rock n Roll
<u>CN 369</u>	Critical Studies
<u>CN 370</u>	Communication Training & Development
<u>CN 395</u>	Special Topics/Communication
<u>CN 490</u>	Directed Research

Total Hours

36

1

Majors are not limited to 36 hours.

Note:

~~Majors are not limited to 36 hours. Also, students are encouraged to consider a minor, but a minor is not required.~~

2

Limit of 3 hours can count toward the major.

Pathway

Faculty Workload Analysis (describe how the course offering schedule and anticipated enrollments correlate to faculty lines)

Supplemental
Files

Reviewer
Comments

Key: 37

Program Change Request

Date Submitted: 11/13/23 10:20 am

Viewing: **EGP : Engineering-Physics**

Last approved: 10/17/23 12:05 pm

Last edit: 11/14/23 9:39 am

Changes proposed by: Karen Camarda (karen.camarda)

Catalog Pages

Using this

Program

[Engineering Physics, AS](#)

Change Type

Significant

Summarize

Changes and

Include Rationale

In Workflow

1. Acad Ops
2. PS Chair
3. Library
4. NSM Chair
5. CA Dean
6. CFCCC Chair
7. Assoc Dean CFC
8. CA Assoc Dean
9. Governance
Check
10. Final Acad Ops
11. Registrar

Approval Path

1. 11/13/23 1:53 pm
Holly Broxterman
(holly.broxterman):
Approved for Acad
Ops
2. 11/13/23 2:31 pm
Karen Camarda
(karen.camarda):
Approved for PS
Chair
3. 11/13/23 6:01 pm
Sean Bird
(sean.bird):
Approved for
Library

4. 11/17/23 3:30 pm
Andrew Herbig
(andrew.herbig):
Approved for NSM
Chair
5. 11/29/23 9:04 pm
Kelly Erby
(kelly.erby):
Approved for CA
Dean

History

1. Apr 21, 2022 by
clmig-jwillging
2. Sep 30, 2022 by
Holly Broxterman
(holly.broxterman)
3. Oct 17, 2023 by
Holly Broxterman
(holly.broxterman)
4. Oct 17, 2023 by
Holly Broxterman
(holly.broxterman)

Most electives and EG 303 are being removed from this degree program to make room for the new general education requirements.

((Holly 10/17/23: Completed revisions according to new standardization approved by Deans and Provost Office))

General Information

Effective Catalog 2024-2025
Edition

Department	Physics and Astronomy
College	College of Arts and Sciences
Division	Natural Science & Mathematics
Degree Level	Undergraduate
Program Title	Engineering-Physics
Degree to be Offered	Associate of Science (AS)
Is this program offered completely online?	<u>No</u>
Does this program lead to a teaching certification?	No
Is this program an interdisciplinary program?	No
CIP Code	<u>141201 - Engineering Physics/Applied Physics.</u>

Admission and Curriculum

Admission Criteria

Total Number of Semester Credit Hours for the Degree

Curriculum

Degree Requirements

In addition to the requirements stated below, students must complete 34-35 hours of General Education, all requirements for an Associate of Science degree, and any additional hours needed to reach the minimum 60 credit hours required for graduation. Some of the courses below may also fulfill general education or other degree requirements. Please see your advisor for more information.

Electives

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

Required Course Inside Department

<u>EG 103</u>	Physics & Engineering Seminar I	1
<u>EG 250</u>	Engineering Mechanics: Statics	3
EG 303	Physics & Engineering Seminar II	4
<u>EG 351</u>	Engineering Mechanics: Dynamics	3
<u>Select one:</u>		<u>3</u>
<u>EG 360</u>	<u>Mechanics of Materials</u>	
<u>PS 3XX</u>	<u>Any 300 Level, 3 credit PS course</u>	
<u>PS 281</u>	General Physics I	5
<u>PS 282</u>	<u>General Physics II</u>	<u>5</u>

Subtotal		20
Required Courses Outside Department		
<u>CN 150</u>	<u>Public Speaking</u>	<u>3</u>
<u>MA 151</u>	Calculus & Analytic Geometry I	5
<u>MA 152</u>	Calculus & Analytic Geometry II	5
<u>MA 253</u>	Calculus/Analytic Geometry III	3
CH 151	Fundamentals of Chemistry I	5
or BI 102	General Cellular Biology	
Electives		
Electives		12
<u>Subtotal</u>		<u>16</u>
Total Hours		36

~~Degree Requirements To major in Engineering Physics with an Associate of Science Degree, one must satisfactorily complete:~~

Pathway

Faculty Workload Analysis (describe how the course offering schedule and anticipated enrollments correlate to faculty lines)

Supplemental
Files

Reviewer
Comments

Beth O'Neill (beth.oneill) (11/14/23 9:39 am): Revised to significant change.

Key: 70

New Degree Proposal: Bachelor of General Studies Cip Code 24.0102

Rationale: This degree is intended to assist returning and transfer students in completing a college degree at Washburn in an optimal amount of time and with the greatest flexibility possible. It would also be available to provide a “parachute option” for students who pursue a more traditional degree at Washburn and then decide that degree is not the right fit for them. This proposed degree provides a broad educational experience that is customizable to a student’s career objectives or academic interests. It can be completed in-person, online, or through a combination of in-person and online classes.

In Shawnee County alone there are 38,000 individuals who have earned some college credit but not a completed degree. The proposed Bachelor of General Studies would enable timely degree completion at Washburn by: 1) optimizing the number of electives to accommodate earned college credits that may not easily apply to another degree program; 2) providing a flexible curriculum to accommodate previous coursework and diverse academic interests and career goals; 3) leveraging skills and knowledge students may have acquired outside of a traditional classroom setting by encouraging students to pursue credit for prior learning experiences. Students should contact the Center for Prior Learning for more information about credit for prior learning: <https://www.washburn.edu/academics/prior-learning-assessment/index.html>.

A Bachelor of General Studies would support Washburn’s mission to provide educational pathways to success for everyone. It would also benefit our community by supporting workforce development, increased income and employment opportunities, civic engagement, and innovation and entrepreneurship.

To be eligible for the General Studies degree, a student must have completed at least 45 credit hours of college coursework after high school graduation. Students direct from high school are ineligible to be declared or advised in General Studies. Students direct from high school who are undecided about a degree or major will work with an advisor in pursuing a more traditional degree.

This degree is similar to the Bachelor of Integrated Studies (BIS) in that it does not require a major. However, this proposed Bachelor of General Studies degree would provide greater flexibility than the BIS in that it does not require an individualized study plan, a pre-approved multi-department study program, or capstone. These requirements of the BIS have necessitated additional coursework for some students who already have significant college credits. In recent years, the BIS has been utilized as a degree completion program because such a program is needed at Washburn. But that was not what the BIS was originally designed to be. With a Bachelor of General Studies degree available at Washburn, the BIS could return to its original purpose as an integrated program of study for students who desire to design their own unique degree.

Proposed Catalog Description: The Bachelor of General Studies program is a flexible, interdisciplinary four-year degree program. It provides a broad educational experience that is customizable to a student's specific career objectives or academic interests. College credits that are not easily applicable to a particular major or minor can often be applied to this degree, facilitating time to graduation. The degree also encourages students to seek college credit for non-traditional prior learning experiences. Students should contact the Center for Prior Learning for more information about credit for prior learning:
<https://www.washburn.edu/academics/prior-learning-assessment/index.html>.

To be eligible for the General Studies degree, a student must have completed at least 45 credit hours of college coursework after high school graduation. Students direct from high school are ineligible to be declared or advised in General Studies. Students direct from high school who are undecided about a degree or major should work with an advisor in selecting a degree program.

Program Learning Objectives:

1. Develop a broad understanding of various disciplines and their interconnections, fostering an interdisciplinary approach to problem solving and decision making.
2. Develop and apply critical thinking skills to evaluate information, assess arguments, and make informed decisions across diverse subject areas.
3. Develop and apply communication skills.
4. Acquire proficiency in conducting research, evaluating sources, and synthesizing information from multiple perspectives to support an informed position.

Study Plan: Candidates for the Bachelor of General Studies degree must complete the following requirements:

- A minimum of 120 credit hours, 84 of which must be graded and 45 of which must be at the 300 or 400 level
- All general education requirements
- 300-level English composition course
- Minimum 2.0 GPA
- Minimum of 30 credit hours of the last 45 must be earned from Washburn University
- Minimum of 60 credit hours must be earned from a four-year institution
- There is no minimum requirement for credit hours within the College of Arts and Sciences

List any financial implications: Market research indicates demand for this program in our community and region, and so implementation should result in new revenue. Fort Hays, Pittsburg State, and Emporia are already offering completion programs with similar flexibility. This addition to Washburn's catalog will enable us to be more competitive in recruiting and graduating adult learners. The degree will be coordinated by the College of Arts and Sciences

Deans Office. If the program grows considerably, an additional CAS academic advisor might be necessary, and would be justified by the increased revenue generated.

Are any other departments affected by this new program: Yes, the program is highly flexible and students may take undergraduate courses from all units of the university and apply them toward this degree. The impacts should be largely positive, as the program's flexibility and diversity should preclude a major burden on any one department.

Requirements for all Arts and Sciences Baccalaureate Degrees

To receive a BA, BFA, BM, BMA, BPA, or BS degree from Washburn University, a student must complete a minimum of 99 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. To receive a BEd degree from the College of Arts and Sciences at Washburn University student must complete 72 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.

In certain instances, such as when students are pursuing a dual degree, double major, or minor in a program outside of the College, it may be possible to reduce the number of credit hours required from the College of Arts and Sciences. Such requests should be made to the Dean of the College.