

**WASHBURN UNIVERSITY  
BACHELOR OF ARTS  
COMPUTER INFORMATION SCIENCE**

As of August 2013  
Expires: Summer 2020

**CIS Core** - 13 hrs

- CM111 Intro to Structured Programming (4)
- CM231 Computer Organization/Assembler (3)
- CM245 Contemporary Programming Methods (3)
- CM261 Networked Systems I (3)

**CIS Required** - 21 hrs

- CM307 Data Structures & Algorithmic Analysis (3)
- CM322 Operating Systems (3)
- CM331 Computational Intelligence (3)
- CM333 Software Engineering (3)
- CM336 Database Management Systems (3)
- CM361 Network Systems II (3)
- CM467 CIS Capstone Project (2)
- CM468 CIS Senior Seminar (1)

**Approved Elective CM Coursework** – 12 hrs

These courses should be selected in consultation with a departmental advisor. A minimum of 6 hours must be upper division. In order to reach the 45 hours of UD you may need to take more hours than 6 hours UD.

**Correlated** - 33 hrs

- PH220 Logic (\*HU) (3)
- EC200 Principles of Microeconomics (\*SS) (3)
- EC201 Principles of Macroeconomics (\*SS) (3)

One of:

- BU342 Organization and Management (3) or
- BU346 Organizational Behavior (3)

- EN208 Business/Technical Writing (\*HU) (3)
- CN150 Public Speaking (\*HU) (3)

One of:

- CN340 Professional Interviewing (3) or
- CN341 Persuasive Speaking (3)

One of:

- MA140 Statistics (\*NSM) (3) or
- MA343 Applied Statistics (3)
- MA123 Pre-Calculus (\*NSM) (3)

One of:

- MA141 Applied Calculus I (\*NSM) (3) or
- MA151 Calculus (\*NSM) (5)

- MA206 Discrete Math – Computing (\*NSM) (3)

\*These courses are part of the general education program

**UNIVERSITY AND GENERAL EDUCATION REQUIREMENTS**

For a complete listing of the requirements for the Bachelor's degree, please consult the University catalog. Although you, the student, are ultimately responsible for ensuring that the minimum degree requirements are met, you should choose a departmental advisor during your sophomore year to assist you.

**English**

- EN101 Freshman Composition
- EN300 Junior English Composition

**The Washburn Experience**

- WU 101 The Washburn Experience

**Mathematics Competency**

- Successful completion of MA140

**Foreign Language Requirement**

Completion of 102 level course in Department of International Studies - Approximately 8 hours if no high school language.

**Gen. Ed. Humanities (\*HU)** – 15 hrs

- At least 3 hrs in Art, Music, or Theatre (AMT)
- At least 2 disciplines other than AMT
- Maximum of 6 hrs per discipline

**Gen. Ed. Nat Science/Math (\*NSM)** – 12 hrs

- Maximum of 6 hrs per discipline
- At least 2 non mathematics disciplines

**Gen. Ed. Social Sciences (\*SS)** – 15 hrs

- Maximum of 6 hrs per discipline. Should take PY or SO or both as prerequisites for BU342/346.

**NOTE:**

1. Of the minimum **124** hours required to graduate, **84** hours must be **outside your major**. If you take more than 40 CM hours toward the B.A., you must add the number of hours over 40 to 124. (i.e., If you take 45 hours of CM, you must have 129 total hours to graduate.)
2. Of the minimum **124** hours required to graduate, **99** hours must be **College of Arts & Sciences** credits.
3. You must take at least **45** hours of **upper division** coursework (numbered 300 or above).
4. No course required for the degree (major, minor, or correlated) may be taken pass/fail and a **grade of C or better** is required.
5. Transfer students must take at least **9** hours of **upper division** CM courses from Washburn. Transfer hours in your major must be approved by the Department. At least 25% of credit hours required for the major must be taken at Washburn.

Stoffer Science Hall, Room 304  
(785) 670-1739

Dr. Bruce Mechtly, Chair  
[www.washburn.edu/cas/cis](http://www.washburn.edu/cas/cis)