

**ABET Accredited Computer Science Major —B.S. 81-83 credits
Starting with Pre-Calculus and CSCI 200**

Computer Science & Information Technology Department

Program Advisors: Sarnath Ramnath, Jie Miechsner, Andrew Anda, Bryant Julstrom, Jayantha Herath, Donald Hamnes

Admission process: direct declare

First Semester(15 credits)	Second Semester(13 credits)
ENGL 191 ⁸ -Intro to Rhetorical and Analytical Writing (4 cr.) CSCI 200 ⁹ Elements of Computing (3 cr.) MATH 115 ^{1,2} – Precalculus (5 cr.) Liberal Education (3 cr.)	CSCI 201 ³ -Computer Science 1 (4 cr.) MATH 271 ³ -Discrete Mathematics I (3 cr.) CMST 192 ⁸ -Introduction to Speech Communication (3 cr.) PHIL 194-Critical Reasoning (3 cr.)
Third Semester(16 credits)	Fourth Semester(15-16 credits)
CSCI 220 ³ -Computer Architecture I (4 cr.) CSCI 301 ³ -Computer Science 2 (4 cr.) MATH 221 ³ -Calculus I (4 cr.) First Half of Required Science Sequence (4 cr.)	CSCI 320 ³ -Computer Architecture II (4 cr.) ENGL 332 (4 cr.) or CMST 341 (3 cr.) Second half of required Science Sequence (4 cr.) MATH 312/327 (4 cr.)
Fifth Semester(15-16 credits)	Sixth Semester(14-16 credits)
CSCI 310 ³ -Introduction to Operating Systems (3 cr.) CSCI 331 ⁵ -Software Systems (3 cr.) MATH 222 (4 cr.)/ MATH 304- (3 cr.) STAT 353/417 (3 cr.) Liberal Education (3 cr.)	CSCI 311 ³ – Systems Programming (2 cr.) CSCI 330 ⁴ -Programming Language Concepts (3 cr.) CSCI 4xx ⁷ (Elective) (3 cr.) Science-Elective (3-5 cr.) Liberal Education (3 cr.)
Seventh Semester (16 credits)	Eighth Semester(15 credits)
CSCI 334-Communication for Computing Sciences (1 cr.) CSCI 4xx ⁷ (Elective) (3 cr.) CSCI 4xx ⁷ (Elective) (3 cr.) Liberal Education (9 cr.)	CSCI 332 ⁴ -Computing Ethics (3 cr.) CSCI 4xx ⁷ (Elective) (3 cr.) CSCI 4xx ⁷ (Elective) (3 cr.) Liberal Education Elective (6 cr.)

¹Math 115 may be replaced by Math 112 and Math 113. In that case, Math 112 must be completed before taking CSCI 201 and Math 113 taken along with CSCI 201.

²Students who are ready to take Math 221 are not required to take this class.

³These courses are offered in both semesters.

⁴Offered in spring semester only.

⁵Offered in fall semester only.

⁷Senior-level electives must include courses in at least three different subject areas.

⁸ ENGL 191 may be taken in the second semester of the freshman year if CMST 192 is taken in the first semester

⁹ Students ready for CSCI 201 are not required to take this class.

Notes:

- (a) Not all electives are offered every semester. See schedule for offerings.
- (b) Students must successfully complete 120 credits to graduate, at least 45 credits at the 300-400 level.
- (c) At least one-half of the 300- and 400-level computer science courses in this major program must be taken from our department.

Last Updated: Oct 31, 2019