Computer Science General Course Plan

Catalog Year 2019-2020

Legend

* Major Requirement

Must be taken to fulfill major requirements.

† Major Elective

Must be taken to fulfill major requirements, or replaced with an equivalent course.

‡ Gen-Ed Requirement

Must be taken to fulfill general education requirements.

§ Elective

Can be chosen from a selection of courses.

See MyGFU for detailed academic requirements.

First Year

Fall Semester

Introduction to Computer Science I (CSIS 201) *	3 credits
Calculus I (MATH 201) *	4 credits
COMM GE Requirement ‡	3 credits
Knowing and Being Known (LIBA 100) ‡	3 credits
I Believe (THEO 101) ‡	3 credits
Semester Total	**16 credits**
Cumulative Total	**16 credits**

Spring Semester

Introduction to Computer Science II (CSIS 202) *	3 credits
GE Social Science ‡	3 credits
Natural Science GE Requirement ‡	4 credits
History/Politics/International Studies GE Requirement ‡	3 credits
I Believe (THEO 102) ‡	3 credits
Semester Total	**16 credits**
Cumulative Total	**32 credits**

Second Year

Fall Semester

Data Structures and File Processing (CSIS 310) *	3 credits
Software Engineering (CSIS 321) *	3 credits
Discrete Mathematics (MATH 260) *	3 credits
Art, Beauty and Truth (HUMA 290) §	3 credits
Free Elective §	3 credits
Semester Total	**15 credits**
Cumulative Total	**47 credits**

Spring Semester

Analysis of Algorithms (CSIS 430) *	3 credits
Object-Oriented Design/Analysis (CSIS 370) *	3 credits
Philosophy and Literature (HUMA 205) ‡	3 credits
Elective Credits §	6 credits
Semester Total	**15 credits**
Cumulative Total	**62 credits**

Third Year

Fall Semester

Database Systems (CSIS 340) *	3 credits
Computer Architecture (CSIS 360) *	3 credits
Servant Engineering I (ENGR381) *	2 credits
Lifelong Fitness (HHPA 120) ‡	2 credits
Bible/Religion Elective GE Requirement ‡	3 credits
Elective Credits §	3 credits
Semester Total	**16 credits**
Cumulative Total	**78 credits**

Spring Semester

Programming Languages (CSIS 420) *	3 credits
Operating Systems (CSIS 460) *	3 credits
Servant Engineering II (ENGR 382) *	2 credits
Intercultural GE Requirement ‡	3 credits
Elective Credits §	6 credits
Semester Total	**17 credits**
Cumulative Total	**95 credits**

Fourth Year

Fall Semester

CSIS Elective †	3 credits
CSIS Elective †	3 credits
Senior Design I (ENGR481) *	1 credits
Engaging Christ in Transition (LIBA 400) ‡	3 credits
Electives §	6 credits
Semester Total	**16 credits**
Cumulative Total	**111 credits**

Spring Semester

CSIS Elective †	3 credits
Senior Design II (ENGR 482) *	3 credits
Electives §	9 credits
Semester Total	**15 credits**
Cumulative Total	**126 credits**