Computer Science General Course Plan

Catalog Year 2021-2022

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
Communication in Society (COMM 111) ‡	3 credits
Caring for Words (WRIT 111) ‡	3 credits
The Bible (THEO 101) ‡	3 credits
Semester Total	**16 credits**
Cumulative Total	**16 credits**

Spring Semester

Introduction to Computer Science II (CSIS 202) *	3 credits
Personhood (PSYC 100) ‡	3 credits
Why Math Matters (MATH 170) ‡	3 credits
The Modern and Postmodern World (HIST 111) ‡	3 credits
Christianity (THEO 102) ‡	3 credits
Semester Total	**15 credits**
Cumulative Total	**31 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
Faith and Story (LITR 111) ‡	3 credits
Art and Global Culture (ARTP/V 120) ‡	3 credits
Internships: Finding & Landing (optional/recommended) (CPAS 216) §	1 credits
Semester Total	**16 credits**
Cumulative Total	**47 credits**

Spring Semester

Analysis of Algorithms (CSIS 430) *	3 credits
Object-Oriented Analysis & Design (CSIS 370) *	3 credits
Science and Faith (GSCI 170) ‡	4 credits
Elective Credits §	6 credits
Semester Total	**16 credits**
Cumulative Total	**63 credits**

Third Year

Fall Semester

Database Systems (CSIS 340) *	3 credits
Computer Architecture (CSIS 360) *	3 credits
Servant Engineering I (ENGR 381) *	2 credits
Elective Credits §	6 credits
Semester Total	**14 credits**
Cumulative Total	**77 credits**

Spring Semester

Operating Systems (CSIS 460) *	3 credits
CSIS Elective (see catalog) †	3 credits
Servant Engineering II (ENGR 382) *	2 credits
Justice (SSCI 100) ‡	3 credits
Elective credits §	3 credits
Semester Total	**14 credits**
Cumulative Total	**91 credits**

Fourth Year

Fall Semester

Programming Languages (CSIS 420) *	3 credits

CSIS Elective (see catalog) †	3 credits
Senior Design I (ENGR 481) *	1 credits
Ethics (THEO 380) ‡	3 credits
Elective Credits §	4 credits
Navigating College to Career (optional/recommended) (CPAS 318) §	1 credits
Semester Total	**15 credits**
Cumulative Total	**106 credits**

Spring Semester

CSIS Elective (see catalog) †	3 credits
Senior Design II (ENGR 482) *	3 credits
Elective Credits §	9 credits
Semester Total	**15 credits**
Cumulative Total	**121 credits**