## Computer Science General Course Plan

## Catalog Year 2021-2022

## Legend

* Major Requirement

Must be taken to fulfill major requirements.

## $\dagger$ Major Elective

Must be taken to fulfill major requirements, or replaced with an equivalent course.
$\ddagger$ 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) $\ddagger \quad 3$ credits
Caring for Words (WRIT 111) $\ddagger \quad 3$ credits
The Bible (THEO 101) $\ddagger \quad 3$ credits
Semester Total
16 credits
Cumulative Total
16 credits

## Spring Semester

Introduction to Computer Science II (CSIS 202) *
Personhood (PSYC 100) $\ddagger$
Why Math Matters (MATH 170) $\ddagger$
The Modern and Postmodern World (HIST 111) $\ddagger$
Christianity (THEO 102) $\ddagger$
Semester Total
Cumulative Total

3 credits
3 credits
3 credits
3 credits
3 credits
15 credits
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) $\ddagger$ | 3 credits |
| Art and Global Culture (ARTP/V 120) $\ddagger$ | 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) * |  |
| Object-Oriented Analysis \& Design (CSIS 370) * | 3 credits |
| Science and Faith (GSCI 170) $\ddagger$ | 3 credits |
| Elective Credits § | 4 credits |
| Semester Total | 6 credits |
| Cumulative Total | 16 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) $\dagger$ | 3 credits |
| Servant Engineering II (ENGR 382) * | 2 credits |
| Justice (SSCI 100) | 3 credits |
| Elective credits § | 3 credits |
| Semester Total | $\mathbf{1 4}$ credits |
| Cumulative Total | $\mathbf{9 1}$ credits |

## Fourth Year

## Fall Semester

| CSIS Elective (see catalog) $\dagger$ | 3 credits |
| :--- | :--- |
| Senior Design I (ENGR 481)* | 1 credits |
| Ethics (THEO 380) $\ddagger$ | 3 credits |
| Elective Credits § | 4 credits |
| Navigating College to Career (optional/recommended) (CPAS 318) § | 1 credits |
| Semester Total | $\mathbf{1 5}$ credits |
| Cumulative Total | $\mathbf{1 0 6}$ credits |

## Spring Semester

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

