Computer Science with Cyber Security Course Plan

Catalog Year 2022-2023

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) * Calculus I (MATH 201) * Communication in Society (COMM 111) ‡ Caring for Words (WRIT 111) ‡ The Bible (THEO 101) ‡ Semester Total Cumulative Total

Spring Semester

Introduction to Computer Science II (CSIS 202) *	3 credits
Why Math Matters (MATH 170) ‡	3 credits
Personhood (PSYC 100) ‡	3 credits
The Modern and Postmodern World ‡	3 credits
Christianity (THEO 102) ‡	3 credits
Semester Total	15 credits
Cumulative Total	31 credits

3 credits

4 credits

3 credits

3 credits

3 credits

16 credits

16 credits

Second Year

Fall Semester

Data Structures (CSIS 310) * 3 credits Software Engineering (CSIS 321) * 3 credits Digital Logic (ENGE 220) * 4 credits Discrete Mathematics (MATH 260) * 3 credits Art and Global Culture (ARTP/V 120) ‡ 3 credits Internships: Finding & Landing (optional/recommended) (CPAS 216) § 1 credits Semester Total 17 credits **Cumulative Total** 48 credits

Spring Semester

3 credits
3 credits
3 credits
3 credits
3 credits
15 credits
63 credits

Third Year

Fall Semester

Database Systems (CSIS 340) *	3 credits
Data Communications & Networking (CSIS 350) *	3 credits
Computer Architecture/Assembly Language (CSIS 360) *	3 credits
Emerging Mobile Technologies (CSIS 390) *	3 credits
Servant Engineering I (ENGR 381) *	2 credits
Justice (SSCI 100) ‡	3 credits
Semester Total	17 credits
Cumulative Total	80 credits

Spring Semester

3 credits
3 credits
3 credits
2 credits
3 credits
14 credits
94 credits

Fourth Year

Fall Semester

Parallel & Distributed Computing (CSIS 434) * Advanced Cyber Security (CSIS 413) * Programming Languages (CSIS 420) * Senior Design I (ENGR 481) * Ethics (THEO 380) ‡ Semester Total Cumulative Total

Spring Semester

Cyber Defense (CSIS 451) * Senior Design II (ENGR 482) * Elective Credits § Semester Total Cumulative Total 3 credits 3 credits 3 credits 1 credits 3 credits **13 credits**

107 credits

4 credits 3 credits 6 credits 13 credits 120 credits