

MAJOR IN COMPUTER SCIENCE

(63 credits)

| Code | Title | Credits |
|---|---|---------|
| Required Computer Science Courses (40 Credits) | | |
| CPS210 | Computer Science I: Foundations ¹ | 4 |
| CPS310 | Computer Science II: Data Structures | 4 |
| CPS315 | Computer Science III | 4 |
| CPS330 | Assembly Language and Computer Architecture | 4 |
| CPS340 | Operating Systems | 4 |
| CPS352 | Object Oriented Programming | 3 |
| CPS353 | Software Engineering | 3 |
| CPS415 | Discrete and Continuous Computer Algorithms | 3 |
| CPS425 | Language Processing | 4 |
| Capstone: Select one of the following to pair with CPS485: | | 3 |
| CPS440 | Database Principles | |
| CPS470 | Computer Communication Networks | |
| CPS493 | Computer Science Selected Topic (by advisement) | |
| and | | |
| CPS485 | Projects | 4 |
| Required Mathematics Courses (11 Credits) | | |
| MAT251 | Calculus I | 4 |
| MAT252 | Calculus II | 4 |
| MAT320 | Discrete Mathematics for Computing | 3 |
| Required Science Courses (8 Credits) | | |
| Select one of the following groups: | | 8 |
| Chemistry: | | |
| CHE201 | General Chemistry I | |
| CHE211 | General Chemistry I Lab | |
| CHE202 | General Chemistry II | |
| CHE212 | General Chemistry II Lab | |
| Physics: | | |
| PHY201 | General Physics 1 | |
| PHY211 | Physics 1 Laboratory | |
| PHY202 | General Physics 2 | |
| PHY212 | General Physics 2 Lab | |
| Biology: | | |
| BIO201 | General Biology I | |
| BIO211 | Gen Bio 1 Lab | |
| BIO202 | General Biology II | |
| BIO212 | Gen Bio 2 Lab | |
| Geology: | | |
| GLG201 | Physical Geology | |
| GLG211 | Physical Geology Laboratory | |
| One 4-credit Geology course with Physical Geology as a prerequisite | | |
| Required Engineering Courses (4 Credits) | | |
| EGC220 | Digital Logic Fundamentals | 3 |

| | | |
|----------------------|-------------------|-----------|
| EGC221 | Digital Logic Lab | 1 |
| Total Credits | | 63 |

¹ A grade of B- or better in CPS210 Computer Science I: Foundations is required to progress to CPS310 Computer Science II: Data Structures .