

**BACHELOR OF SCIENCE
COMPUTER SCIENCE**

GENERAL EDUCATION CORE REQUIREMENTS

| Competencies | | | |
|--|----------------------------------|-------|-------|
| <input type="checkbox"/> | Basic College Math | | |
| <input type="checkbox"/> | Reading Comprehension | | |
| <input type="checkbox"/> | Computer Literacy | | |
| ENG 101 | Composition I | 3 | _____ |
| ENG 102 | Composition II | 3 | _____ |
| SPC 101 | (Public Speaking) | 3 | _____ |
| SFL ____ | (Health) | 3 | _____ |
| SFL ____ | (Activity) | .5 | _____ |
| SFL ____ | (Activity) | .5 | _____ |
| Distribution Sequences (18-20 Credits) | | | |
| ‡ ____ | (Lab Science I) | 3-4 | _____ |
| ‡ ____ | (Lab Science II) | 3-4 | _____ |
| HIS 101 | History of World Civilization I | 3 | _____ |
| HIS 102 | History of World Civilization II | 3 | _____ |
| ____ | (Literature I) | 3 | _____ |
| ____ | (Literature II) | 3 | _____ |
| Distribution Electives (15 Credits) | | | |
| Among the distribution electives, the student must earn at least 3 but no more than 9 additional semester hours in each of the three divisions. | | | |
| Humanities (Division I) | | | |
| ____ | _____ | _____ | _____ |
| ____ | _____ | _____ | _____ |
| ____ | _____ | _____ | _____ |
| Science/Mathematics (Division II) | | | |
| *MAT 220 | Calculus I | 4 | _____ |
| *MAT 221 | Calculus II | 4 | _____ |
| ____ | _____ | _____ | _____ |
| Social Sciences (Division III) | | | |
| ____ | _____ | _____ | _____ |
| ____ | _____ | _____ | _____ |
| ____ | _____ | _____ | _____ |
| (Note: Courses allowable as distribution electives are marked DI, DII or DIII in the College Catalog) | | | |
| QUANTITATIVE (Q) ____ DIVERSITY (V) ____ WRITING (W) ____ | | | |

COURSES IN MAJOR (45-49 credits total)

| | | | |
|------------|--------------------------------------|-------|-------|
| CSC 200A | Survey of Computer Science I | 3 | _____ |
| CSC 201J | Software Design and Programming I | 4 | _____ |
| CSC 202J | Software Design and Programming II | 4 | _____ |
| CSC 215 | Survey of Computer Science II | 4 | _____ |
| CSC 260 | Data Structures and Algorithms | 4 | _____ |
| CSC 280 | Operating System Principles | 3 | _____ |
| CSC 295 | Computer Organization & Architecture | 3 | _____ |
| CSC 300 | Software Engineering I | 4 | _____ |
| CSC 498 | Software Design Practicum | 1 | _____ |
| CSC 500 | Directed Study in Computer Science I | 3 | _____ |
| †♦CSC ____ | _____ | _____ | _____ |
| †♦CSC ____ | _____ | _____ | _____ |

**Required Option Sequence
(typically taken junior or early senior year)**

| | | | |
|---|-------|-------|-------|
| †CSC ____ | _____ | _____ | _____ |
| †CSC ____ | _____ | _____ | _____ |
| Artificial Intelligence & Robotics Option: CSC 340, CSC 485 | | | |
| Computation Theory Option: CSC 290, CSC 415 | | | |
| Computer Networking and Security Option: CSC 315A, CSC 435 | | | |
| Embedded Systems Option: CSC 230, CSC 330A | | | |
| Object Oriented Programming Option: CSC 311, CSC 325 | | | |
| Parallel Computing Option: CSC 445, CSC 475 | | | |
| Software Engineering Option: CSC 263, CSC 301 | | | |

SUPPORT COURSES (18 credits total)

| | | | |
|--|---------------------------------|---|-------|
| PHS 205 | Digital Circuit Design | 4 | _____ |
| MAT 214A | Discrete Structures | 4 | _____ |
| MAT 247 | Statistics | 3 | _____ |
| MAT ____ | Math Support Course | 3 | _____ |
| (Choose one MAT course with MAT 220 or MAT 221 as a prerequisite, or another MAT course with permission of the Computer Science Chairperson) | | | |
| + ____ | Science Course chosen from list | 4 | _____ |

FREE ELECTIVES (3 credits minimum)

May be necessary to take additional credits to attain the minimum 120 credits required for graduation.

| | | | |
|------|-------|-------|-------|
| ____ | _____ | _____ | _____ |
| ____ | _____ | _____ | _____ |
| ____ | _____ | _____ | _____ |
| ____ | _____ | _____ | _____ |

- * These are **required** support courses which may also be used to satisfy the indicated Distribution requirements. A student may choose to fulfill Distribution requirements with courses other than the ones listed, but these listed courses must still be taken.
- Note: If a course is used to satisfy two or more requirements (for example, a support course and a distribution elective), the credits are counted in only one place. Using a course to satisfy more than one requirement does **not** reduce the credit total required for graduation.
- ‡ A laboratory science sequence chosen from the following list is a **required** support ingredient for the Computer and Information Studies major: BIO 131-132, CHE 130-131, CHE 130 & 212, PHS 211A-212A, PHS 221-222, GLS 100 & 102.
- + This science support course is in addition to the lab science sequence and must be chosen from the following list: BIO 131, CHE 130, CHE 212, GPH 101P, GLS 100, GLS 102, PHS 211A, PHS 221. The chosen course may also be used as a Division II distribution elective
- ♦ At least one CSC elective must be numbered 290 or above.
- † At least one CSC elective **or** one Option course must be chosen from the following list of courses using a programming language other than the one used in the CSC 201J/CSC 202J sequence: CSC 245A, CSC 273, CSC 278, CSC 311, CSC 325

LEVEL I TO BE COMPLETED WITHIN THE FIRST 30 CREDITS LEVEL II TO BE COMPLETED IN THE FIRST 53 CREDITS LEVEL III TO BE COMPLETED BEFORE GRADUATION

Exceptions in the timing of courses will be made for transfer students.

Effective 9/2011

Total credits for graduation: 120