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## BACHELOR OF SCIENCE COMPUTER SCIENCE

## GENERAL EDUCATION REQUIREMENTS

Competencies

## $\square$ - Basic College Math

$\square$ - Reading Comprehension

* General Education Categories (34-35 credits)

| $\star$ FYS | First Year Seminar |  |  | 3 |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $\leftrightarrow$ W-I | Written Communication - Level I |  |  | 3 |  |
| ${\hline \multirow{8}{}}{ } }$ | Oral Communication |  |  | 3 |  |
| PGR | Personal Growth \& Responsibility |  |  | 3 |  |
| CEA | Creative Expression \& Appreciation |  |  | 3 |  |
| WC | World Cultures |  |  | 3 |  |
| HP | The Human Past |  |  | 3 |  |
| CS | Contemporary Society |  |  | 3 |  |
| SR | Scientific <br> Reasoning: | \# Any SR course |  |  | $3-4$ |
|  | \# SR Lab course |  |  | 4 |  |
| QR | Quantitative Reasoning |  |  | 3 |  |

$\ddagger$ Written Communication (Level II and Level III) and Diversity, Power Dynamics and Social Justice

| W-II | Written Communication - Level II |  |  | $\square$ |
| :---: | :--- | :---: | :---: | :---: |
| W-III | Written Communication - Level III |  |  | $\square$ |
| DPDS | Diversity, Power Dynamics and <br> Social Justice |  |  | $\square$ |

Free Electives (2 credits minimum)
May be necessary to take additional credits to attain the minimum 120 credits required for graduation depending on choices made for general education or



COURSES IN MAJOR (48-53 credits total) Required ( $\mathbf{3 7}$ credits)

| CSC | 105 | Survey of Computer Science | 4 |  |
| :--- | :--- | :--- | :--- | :--- |
| CSC | 110 | Software Design and Program. I | 4 |  |
| CSC | 115 | Software Design and Program. II | 4 |  |
| CSC | 260 | Data Structures and Algorithms | 4 |  |
| CSC | 295 | Computer Org. \& Arch. | 4 |  |
| CSC | 299 | Concepts of Programming Lang | 3 |  |
| CSC | 300 | Software Engineering I | 4 |  |
| CSC | 381 | Operating System Principles | 3 |  |
| CSC | 415 | Analysis of Algorithms | 3 |  |
| CSC | 520 | CS Capstone Project Spec. | 1 |  |
| CSC | 521 | CS Capstone Project | 3 |  |

## Electives (6-8 credits)

| ICSC |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| ICSC |  |  |  |  |

Required Option Sequence (6-8 credits) typically taken junior and/or early senior year

$\checkmark$ Required Support Courses ( $\mathbf{3 0}$ credits total)

| MAT | 147 | Statistics | 3 |  |
| :--- | :--- | :--- | :--- | :--- |
| MAT | 214 A | Discrete Structures | 4 |  |
| MAT | 220 | Calculus I | 4 |  |
| MAT | 221 | Calculus II | 4 |  |
| $\triangleright$ MAT |  |  | 3 |  |
| $\diamond$ |  |  | 4 |  |
| $\diamond$ |  |  | 4 |  |
| $\diamond$ |  |  | 4 |  |

$\checkmark$ Students may choose to use support courses to satisfy general education categories but may not be required to do so. Note: If a course is used to satisfy two or more requirements (for example, a support course and Scientific Reasoning requirement), 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.

* Courses used to satisfy the general education requirements of the university must be taken from a minimum of six different academic disciplines. First Year Seminar and Level I Written Communications courses are exempt from this restriction. Courses may not be used to fulfill both major discipline and general education requirements.
\# These Scientific Reasoning General Education Category courses do not have to be a sequence or be from the same discipline.
$\ddagger \quad$ Level II, Level III Written Communications and Diversity, Power Dynamics and Social Justice Courses may be used to satisfy requirements anywhere else in a student's program of study where they may apply. The credits are counted only in one area.
II At least one CSC elective must be numbered between 301 and 501 (CSC 367 internship may not be used to satisfy the requirement)
$\diamond \quad$ Choose three required Computer Science major support courses from the following list of laboratory science courses: BIO 131, BIO 132, CHE 130, CHE 131, CHE 212, PHS 211A, PHS 212A, PHS 221, PHS 222, GLS 100, GLS 102.
- Choose one MAT course of at least three credits that has MAT 220 or MAT 221 as a prerequisite, or another MAT course with permission of the Computer Science Chairperson.
- COMPETENCIES - TO BE COMPLETED WITHIN THE FIRST 30 CREDITS
- GENERAL EDUCATION CATEGORIES - TO BE COMPLETED WITHIN THE FIRST 30 CREDITS


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

Total credits for graduation: 120

