| YEAR TERM | | MAJOR COURSES | | | | | CORE COURSES | | TOTAL CREDITS |
|---|---|---|---|---|---|---|---|---|---|
| **YEAR 1** — FALL | **MATH 170** 4 CALCULUS I Pre-Req: Placement Exam or MATH 136 or MATH 141 | | **CSCI 125** 3 COMPUTER PROGRAMMING I Co-Req: MATH 136, MATH 141 or higher | | **GENERAL ELECTIVE** 3 | **FCWR 101*** 3 FOUNDATIONS OF COLLEGE COMPOSITION Pre-Req: Placement or WRIT 100 | **FCIQ 101** 3 FOUNDATIONS OF INQUIRY | 16 |
| **YEAR 1** — SPRING | **MATH 180** 4 CALCULUS II Pre-Req: MATH 170 | | **CSCI 185** 3 COMPUTER PROGRAMMING II Pre-Req: CSCI 125 | **PHYS 170** 4 GENERAL PHYSICS I Co-Req: MATH 170 | | **FCWR 151*** 3 FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101 | **FCSC 101** 3 FOUNDATIONS OF SCIENTIFIC PROCESS | 17 |
| **YEAR 2** — FALL | **MATH 260** 4 CALCULUS III Pre-Req: MATH 180 | **MATH 220** 3 PROBABILITY & STATISTICS Pre-Req: MATH 180 | | **PHYS 180** 4 GENERAL PHYSICS II Pre-Req: PHYS 170; Co-Req: MATH 180 | | **FCSP 105** 3 FOUNDATIONS OF SPEECH COMMUNICATION | | 14 |
| **YEAR 2** — SPRING | **MATH 350** 3 ADVANCED CALCULUS Pre-Req: MATH 260 | **MATH 310** 3 LINEAR ALGEBRA Pre-Req: MATH 180 | **MATH 330** 4 COMPUTATIONAL ANALYSIS Pre-Req: MATH 260 | **CSCI 235** 3 ELEMENTS OF DISCRETE STRUCTURES Pre-Req: CSCI 185 AND MATH 170 | | **FCWR 3XX** 3 PROFESSIONAL COMMUNICATION CHOICE Pre-Req: FCWR 151 | | 16 |
| **YEAR 3** — FALL | **MATH 320** 3 DIFFERENTIAL EQUATIONS Pre-Req: MATH 260 | **MATH 410** 3 NUMERICAL LINEAR ALGEBRA Pre-Req: MATH 310 | | **CSCI 312** 3 THEORY OF COMPUTATIONS Pre-Req: CSCI 235 | **COMPUTER SCIENCE ELECTIVE** 3 | **ICLT 3XX**** 3 LITERATURE CHOICE | | 15 |
| **YEAR 3** — SPRING | **MATH 455** 3 NUMERICAL ANALYSIS Pre-Req: MATH 320 | | | **SCIENCE ELECTIVE** 4 | **GENERAL ELECTIVE** 3 | **ICBS 3XX**** 3 BEHAVIORAL SCIENCE CHOICE | | 13 |
| **YEAR 4** — FALL | **MATH 440** 3 NUMERICAL OPTIMIZATION Pre-Req: MATH 410 | **MATH ELECTIVE** 3 | **MATH ELECTIVE** 3 | | **GENERAL ELECTIVE** 3 | **ICPH 3XX**** 3 PHILOSOPHY CHOICE | | 15 |
| **YEAR 4** — SPRING | **MATH 490** 5 MATHEMATICAL MODELING CAPSTONE Pre-Req: MATH 450 or MATH 455 | | | **CSCI 335** 3 DESIGN AND ANALYSIS OF ALGORITHMS Pre-Req: CSCI 260 | **GENERAL ELECTIVE** 3 | **ICSS 3XX**** 3 _OR_ **IENG 400** TECHNOLOGY AND GLOBAL ISSUES | | 14 |
| CREDITS | | | | | | | | | **120** |

*Non-native English speakers should take FCWR 111 in lieu of FCWR 101 and FCWR 161 in lieu of FCWR 151.

**Pre-Req: FCWR 101, FCWR 151, FCIQ 101, FCSP 105, FCSC 101

(Rev. 2/2023)

*Course names, numbers and/or pre-requisites are subject to change.*

**Grades for all MATH courses must be a C or higher.**

**The combined GPA for all mathematics courses must be a 2.7 or higher.**