

| YEAR TERM | | MAJOR COURSES | | | | | GENERAL EDUCATION | | TOTAL CREDITS | | | |
|-----------|--------|---|---|--|---|--|-------------------|---|---------------|--|-----|----|
| YEAR 1 | FALL | MATH 170 CALCULUS I Pre-Req: Requires Placement or MATH 136 or MATH 141 | 4 | CSCI 125 COMPUTER PROGRAMMING I Co-Req: MATH 136, MATH 141 or higher | 3 | GENERAL ELECTIVE | 3 | FCWR 101/111 FOUNDATIONS OF COLLEGE COMPOSITION Pre-Req: Requires Placement | 3 | DATA 101 MAKING SENSE OF A DATA-ORIENTED SOCIETY | 3 | 16 |
| | SPRING | MATH 180 CALCULUS II Pre-Req: MATH 170 | 4 | CSCI 185 COMPUTER PROGRAMMING II Pre-Req: CSCI 125 | 3 | PHYS 170 GENERAL PHYSICS I Co-Req: MATH 170 | 4 | GENERAL ELECTIVE | 3 | FCWR 151/161 FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101/111 | 3 | 17 |
| YEAR 2 | FALL | MATH 260 CALCULUS III Pre-Req: MATH 180 | 4 | MATH 220 PROBABILITY & STATISTICS Pre-Req: MATH 180 | 3 | PHYS 180 GENERAL PHYSICS II Pre-Req: PHYS 170; Co-Req: MATH 180 | 4 | GENERAL ELECTIVE | 3 | | | 14 |
| | SPRING | MATH 350 ADVANCED CALCULUS Pre-Req: MATH 260 | 3 | MATH 310 LINEAR ALGEBRA Pre-Req: MATH 180 | 3 | MATH 330 COMPUTATIONAL ANALYSIS Pre-Req: MATH 260 | 4 | CSCI 235 ELEMENTS OF DISCRETE STRUCTURES Pre-Req: CSCI 185 and MATH 170 | 3 | FCWR 3XX PROFESSIONAL COMMUNICATION CHOICE Pre-Req: FCWR 151/161 | 3 | 16 |
| YEAR 3 | FALL | MATH 320 DIFFERENTIAL EQUATIONS Pre-Req: MATH 260 | 3 | MATH 410 NUMERICAL LINEAR ALGEBRA Pre-Req: MATH 310 | 3 | CSCI 312 THEORY OF COMPUTATIONS Pre-Req: CSCI 235 | 3 | COMPUTER SCIENCE ELECTIVE <u>OR</u> SCIENCE ELECTIVE | 3 | ICXX 3XX * SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS**) Pre-Req: FCWR 101/111 and FCWR 151/161 | 3 | 15 |
| | SPRING | MATH 455 NUMERICAL ANALYSIS Pre-Req: MATH 320 | 3 | | | SCIENCE ELECTIVE | 4 | GENERAL ELECTIVE | 3 | ICXX 3XX * SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS**) Pre-Req: FCWR 101/111 and FCWR 151/161 | 3 | 13 |
| YEAR 4 | FALL | MATH 440 NUMERICAL OPTIMIZATION Pre-Req: MATH 410 | 3 | MATH ELECTIVE | 3 | MATH ELECTIVE | 3 | GENERAL ELECTIVE | 3 | ICXX 3XX * SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS**) Pre-Req: FCWR 101/111 and FCWR 151/161 | 3 | 15 |
| | SPRING | MATH 490 MATHEMATICAL MODELING CAPSTONE Pre-Req: MATH 450 or MATH 455 | 5 | | | CSCI 335 DESIGN AND ANALYSIS OF ALGORITHMS Pre-Req: CSCI 260 | 3 | GENERAL ELECTIVE | 3 | ICXX 3XX * SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS**) Pre-Req: FCWR 101/111 and FCWR 151/161 | 3 | 14 |
| CREDITS | | | | | | | | | | | 120 | |

*Of the four required ICXX seminar courses (ICBS, ICLT, ICPH, ICSS), at least three must be in different subject areas.

** IENG 400 (Technology and Global Issues) may be substituted for an ICSS choice.

(Rev. 3/24)

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.