

| YEAR TERM | | MAJOR COURSES | | | | | GENERAL EDUCATION | | TOTAL CREDITS |
|-----------|--------|----------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------|---------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|---------------|
| YEAR 1 | FALL | MATH 170 4 CALCULUS I Pre-Req: Requires Placement or MATH 136 or MATH 141 | | CSCI 125 3 COMPUTER PROGRAMMING I Co-Req: MATH 136, MATH 141 or higher | | GENERAL ELECTIVE 3 | FCWR 101/111 3 FOUNDATIONS OF COLLEGE COMPOSITION Pre-Req: Requires Placement | DATA 101 3 MAKING SENSE OF A DATA-ORIENTED SOCIETY | 16 |
| | 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 | GENERAL ELECTIVE 3 | FCWR 151/161 3 FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101/111 | | 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 | GENERAL ELECTIVE 3 | | | 14 |
| | 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 | PHYS 220 4 GENERAL PHYSICS III Pre-Req: PHYS 180 | | FCWR 3XX 3 PROFESSIONAL COMMUNICATION CHOICE Pre-Req: FCWR 151/161 | | 17 |
| YEAR 3 | FALL | MATH 320 3 DIFFERENTIAL EQUATIONS Pre-Req: MATH 260 | MATH 410 3 NUMERICAL LINEAR ALGEBRA Pre-Req: MATH 310 | | PHYS 225 3 INTRO TO MODERN PHYSICS Pre-Req: PHYS 180 | COMPUTER SCIENCE ELECTIVE 3 | ICXX 3XX * 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS**) Pre-Req: FCWR 101/111 and FCWR 151/161 | | 15 |
| | SPRING | MATH 450 3 PARTIAL DIFFERENTIAL EQUATIONS Pre-Req: MATH 320 | | | PHYS 450 3 MATHEMATICAL PHYSICS Pre-Req: MATH 260 AND PHYS 220 | GENERAL ELECTIVE 3 | ICXX 3XX * 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS**) Pre-Req: FCWR 101/111 and FCWR 151/161 | | 12 |
| YEAR 4 | FALL | MATH 470 3 MATHEMATICAL FLUID DYNAMICS Pre-Req: MATH 450 | MATH ELECTIVE 3 | MATH ELECTIVE 3 | | GENERAL ELECTIVE 3 | ICXX 3XX * 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS**) Pre-Req: FCWR 101/111 and FCWR 151/161 | | 15 |
| | SPRING | MATH 490 5 MATHEMATICAL MODELING CAPSTONE Pre-Req: MATH 450 or MATH 455 | | | COMPUTER SCIENCE 3 | GENERAL ELECTIVE 3 | ICXX 3XX * 3 SEMINAR CHOICE (ICBS, ICLT, ICPH, or ICSS**) Pre-Req: FCWR 101/111 and FCWR 151/161 | | 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.