

| YEAR TERM | | MAJOR COURSES | | | | | CORE COURSES | | TOTAL CREDITS |
|-----------|--------|--|--|--|---|---|--|--|----------------|
| YEAR 1 | FALL | ETCS 105 2 CAREER DISCOVERY | CENG 201 3 CIVIL ENGINEERING GRAPHICS | MATH 170 4 CALCULUS I Pre-Req: Placement Exam or MATH 136 or MATH 141 | PHYS 170 4 GENERAL PHYSICS I Co-Req: MATH 170 | | FCWR 101* 3 FOUNDATIONS OF COLLEGE COMPOSITION Pre-Req: Placement or WRIT 100 | | 16 |
| | SPRING | | IENG 251 3 PROJECT ENGINEERING Pre-Req: MATH 170 or MATH 161 | MATH 180 4 CALCULUS II Pre-Req: MATH 170 | PHYS 180 4 GENERAL PHYSICS II Pre-Req: PHYS 170; Co-Req: MATH 180 | CHEM 107 4 ENGINEERING CHEMISTRY I Pre-Req: MATH 135 or MATH 141 or higher | FCWR 151* 3 FOUNDATIONS OF RESEARCH WRITING Pre-Req: FCWR 101 | | 18 |
| YEAR 2 | FALL | | MENG 201 3 ENGINEERING PROGRAMMING Co-Req: MATH 170 or MATH 161 | MENG 211 3 STATICS Pre-Req: MATH 180, PHYS 170 | MATH 260 4 CALCULUS III Pre-Req: MATH 180 | | FCWR 304 3 COMMUNICATION FOR TECHNICAL PROFESSIONS Pre-Req: FCWR 151 | FCSP 105 3 FOUNDATIONS OF SPEECH COMMUNICATION | 16 |
| | SPRING | CENG 260 3 CIVIL ENGINEERING MATERIALS Pre-Req: CHEM 107 | MENG 221 3 STRENGTH OF MATERIALS Pre-Req: MENG 211, MATH 180 | MENG 212 3 DYNAMICS Pre-Req: MENG 211 Co-Req: MATH 260 | MATH 320 3 DIFFERENTIAL EQUATIONS Pre-Req: MATH 260 | CENG 301 3 SURVEYING AND GEOMATICS Pre-Req: MATH 180, CENG 201 | | | 15 |
| YEAR 3 | FALL | CENG 310 3 STEEL STRUCTURES Pre-Req MENG 221, CENG 260 | CENG 320 3 MECHANICAL AND ELECTRICAL SYSTEMS IN BUILDINGS Pre-Req: PHYS 180 | | IENG 240 3 ENGINEERING ECONOMICS Pre-Req MATH 141 or MATH 136 | STEM ELECTIVE 3 MATH/PHYS 3XX or 4XX, or 3XX and above CoECS course | LIBERAL ARTS ELECTIVE 3 | | 15 |
| | SPRING | CENG 340 3 STRUCTURAL ANALYSIS & DESIGN Pre-Req: MENG 221, CENG 260, MATH 320 | CENG 360 3 GEOTECHNICAL ENGINEERING Pre-Req: MENG 221 | CENG 312 3 CONCRETE STRUCTURES Pre-Req MENG 221, CENG 260 | IENG 245 3 STATISTICAL DESIGN I Pre-Req MATH 116 or MATH 70 | ARCH 471 3 CONSTRUCTION SUPERVISION & MANAGEMENT | | | 15 |
| YEAR 4 | FALL | CENG 380 3 FLUID MECHANICS AND HYDRAULICS Pre-Req: MATH 320 | | | ARCH 473 3 CONSTRUCTION MANAGEMENT CONTRACTS | TECHNOLOGY ELECTIVE 3 | ICPH 3XX** 3 PHILOSOPHY CHOICE | ICSS 309/ IENG 400** 3 TECHNOLOGY AND GLOBAL ISSUES Junior or Senior Status | 15 |
| | SPRING | CENG 470 4 CONSTRUCTION ENGINEERING SENIOR DESIGN Pre-Req: CENG 340, CENG 360, ARCH 311, ARCH 312 | | | ARCH 476 3 MODERN CONSTRUCTION TECHNOLOGIES | TECHNOLOGY ELECTIVE 3 | ICBS 3XX** 3 BEHAVIORAL SCIENCE CHOICE | ICLT 3XX** 3 LITERATURE CHOICE | 16 |
| CREDITS | | | | | | | | | 124-126 |

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

(Rev. 11/21)

**Pre-Req: FCWR 101, FCWR 151

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