| | Civil & Environmental Engineering Concentration Model Program (Starting Fall 2021) | | | | | | |
|-------------|--|--|-----------------------|--|--|---|--|
| First Year | Fall (16) | | 3 1 | Chemistry 101 Engineering 101 Engineering 181 Mathematics 171 Core Foundations | General Chemistry (F,S) Intro to Engineering Design (F) Graphical Communication Lab (F) Calculus I (F,S) Community and Commitments | taken in any ord ENGR 202* - Sta ENGR 204 - Intro with Lab | tics and Dynamics o to Circuit Analysis and Electronics |
| | Spring (17) | | 3 4 4 3 | Engineering 205 Mathematics 172 Physics 133 Core Foundations | Material Science (S) Calculus II (F,S) Introductory Physics, Mechanics and Gravit Foundations of Christianity I | Mechanics * Course offered as p | o to Conservation Laws & Fluid part of the Summer Program in Germany |
| | •, | | 3 | Core Comp and Skills | Foundational Writing | | |
| Second Year | Fall (17) | * Possibly insert Summer Program in Germany □ 4 Engineering 20X ★ □ 3 Mathematics 270/271 Multivariable Calculus - Math 270 (F only), Math 271 (F,S) □ 4 Physics 235 Introductory Physics: Electricity and Magnetism (F) □ 2 Computer Science 104 Applied Computing (F) (CS 106 or 108 may be substituted but both are 4 SH) □ 3 Core Foundations Foundations of Christianity II □ 1 Core Comp and Skills Health and Movement □ 0 Engineering 295 Internship Workshop 1 Engineering 184 Sustainability Challenges (F) (Required for students seeking Sustainability Designation) | | | | | |
| | Spring (17) | ☐ 4 Engineering 20X★ | | | | | ret) |
| | * Possibly insert Summer Program in Germany | | | | | | |
| Third Year | Fall (18) | | 4 4 4 2 | Engineering 305 Engineering 306 Engineering 320 Core Knowledge and Under Interdisciplinary 102 Engineering 384 | Mechanics of Materials (F) Environmental Engineering (F) Hydraulic I Engineering (F) erstanding (see Core Options sheet) - tagged Oral Rhetoric for Engineers Sustainability Analysis (Required for students | seeking Sustainab | oility Designation) |
| | Spring (17) | | 4 4 4 4 1 | Engineering 308 Engineering 321 Engineering 326 Engineering Elective Core Comp and Skills | Environmental Engineering Design (S) Hydraulic Engineering Design (S) Structural Analysis (S) Health and Movement | | Pink listings (core humanities courses) may be taken in any semester. ECON should be taken prior to BUS 357. |
| Fourth Year | Fall (16) | Inter | 4 4 2 4 | p Experience (ENGR 385 Option Engineering 327 Elective: Basic Science, Ac Engineering 339 | Structural Design (F) dv. Math, Engr, or Technical Senior Design Project (F) - Core Cont Challe erstanding (see Core Options sheet) - tagged Business Aspects for Engineers (F) | light brown are entional | |
| | Spring (16) | □ 4 Elective: Basic Science or Advanced Math □ 4 Engineering 340 Senior Design Project (S) □ 4 Core Knowledge and Understanding (see Core Options sheet) - tagged □ 4 Engineering Elective (2 SH minimum) □ 0 Engineering 394 Engineering Seminar (does not require registration in advance) | | | | | |

Other Requirements

- □ 0-8 Core Comp and Skills: World Languages I (3 years in HS with B or better)
- □ 0-3 Engaged Citizenship Commitment Tag: Diversity and Difference
- □ 0-3 Engaged Citizenship Commitment Tag: Environmental Sustainability
- □ 0-3 Engaged Citizenship Commitment Tag: Global Regions and Cultures

