Civil \& Environmental Engineering Concentration Model Program (Starting Fall 2020 or before)

| \% |  $\square$ 5 Chemistry 101 <br>  $\square$ 3 Engineering 101 <br> $\stackrel{\rightharpoonup}{\text { In }}$ $\square$ 1 Engineering 181 <br> $\overline{\overline{\widetilde{J}}}$ $\square$ 4 Mathematics 171 <br> $\square$ $\square$ 3 English 101 <br> $\square$ 1 Interdisciplinary 149  | General Chemistry (F,S) <br> Intro to Engineering Design (F) <br> Graphical Communication Lab (F) <br> Calculus I (F,S) <br> \# ENGR 20x - These courses are <br> Written Rhetoric required but can be taken in any order: <br> First Year Seminar ENGR 202*- Statics and Dynamics ENGR 204 - Intro to Circuit Anaysis and |
| :---: | :---: | :---: |
| * | $\underline{\underline{\underline{E}} \quad \square 3}$ Interdisciplinary 150 | Developing the Christian Mind <br> Electronics with Lab |
| 进 |  | Material Science (S) \& Fluid Mechanics <br> Calculus II (F,S) *Course offered as part of the Summer Program <br> Introductory Physics, Mechanics and Gravity (S) in Germany <br> See Core Curriculum section of catalog for options  <br> See Core Curriculum section of catalog for options  |
| * Possibly insert Summer Program in Germany |  |  |
| \% |  $\square$ 4 <br> Engineering 20x ${ }^{*} \star$   <br>  $\square$ 3 Mathematics 270/271 | Multivariable Calculus - Math 270 (F only), Math 271 (F,S) <br> Introductory Physics: Electricity and Magnetism (F) <br> Applied Computing (F) (CS 106 or 108 may be substituted but both are 4 SH) <br> Biblical Literature/Christian Theology <br> Internship Workshop |
|  |  | Differential Equations with Linear Algebra (F,S) <br> Principles of Economics or Microeconomics (ECON 232 or 233 may be substituted) <br> Engineering Statistics (S) <br> Seminar |
| * Possibly insert Summer Program in Germany |  |  |
| - |  $\square$ 4 Engineering 305 <br> $\stackrel{\text { On }}{ }$ $\square$ 4 Engineering 306 <br> $\overline{-1}$ $\square$ 4 Engineering 320 <br> $\overline{\overline{\widetilde{N}}}$ $\square$ 3 The Arts <br> $\square$ 1 Health and Fitness  | Mechanics of Materials (F) <br> Environmental Engineering (F) <br> Hydraulic Engineering (F) <br> Pink listings (core humanities courses) <br> See Core Curriculum section of catalog for options may be taken in any semester. ECON <br> See Core Curriculum section of catalog for options should be taken prior to BUS 357. PHIL |
| $\stackrel{1}{1}$ |  | Environmental Engineering Design (S) <br> Hydraulic Enginering Design (S) <br> Structural Analysis (S) <br> Oral Rhetoric for Engineers (F,S) <br> Fundamental Questions in Philosophy <br> See Elective Options sheet for courses allowed for the green, red, orange, blue and purple categories. Classes shaded in light brown are optional. |
|  |  | Structural Design (F) - two engineering electives <br> - one basic sci/advanced math elective <br> - one bas sci/adv math/engr/tech elective <br> Engineering Elective  <br> Elective: Basic Science, Adv. Math, Engr, or Technical  <br> Senior Design Project (F)  <br> See Core Curriculum section of catalog for options  <br> Business Aspects for Engineers (F)  <br> See Core Curriculum section of catalog for options  |
|  | 1 Engineering 384 | Sustainability Analysis (Required for students seeking Sustainability Designation) |
|  |  | Advanced Math <br> Senior Design Project (S) <br> Elective: Basic Science, Adv. Math, Engr, or Technical <br> Engineering Elective <br> 2 SH minimum <br> Engineering Seminar |

Other Requirements

