| \% |  | General Chemistry (F,S) <br> Intro to Engineering Design (F) <br> Graphical Communication Lab (F) <br> Calculus I (F,S) <br> Written Rhetoric <br> First Year Seminar | $\star$ ENGR 20x - These courses are required but can be taken in any order: <br> - ENGR 202* - Statics and Dynamics <br> - ENGR 204 - Intro to Circuit Analysis and Electronics with Lab <br> - ENGR 209 - Intro to Conservation Laws \& Fluid Mechanics <br> * Course offered as part of the Summer Program in Germany. |
| :---: | :---: | :---: | :---: |
| $\cdots$ | $\underset{\underline{\underline{t}} \quad \square \quad 3 \quad \text { Interdisciplinary } 150}{ }$ | Developing the Christian Mind |  |
| - |  | Material Science (S) <br> Calculus II (F,S) <br> Introductory Physics, Mechanics and Gravity (S) <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>    <br> $\square$ 3 Mathematics 270/271 <br> $\square$ $\square$ 4 <br> $\overline{\bar{\sigma}}$ $\square$ 2 Physics 235 | 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 <br> Sustainability Challenges (F) (Required for students seeking Sustainability Designation) |  |
| $\stackrel{\downarrow}{\sim}$ |  | Differential Equations with Linear Algebra (F,S) <br> Principles of Economics/or Microeconomics (ECON <br> Engineering Statistics (S) <br> Seminar | 233 may be substituted) |
| * Possibly insert Summer Program in Germany |  |  |  |
| \% |  | Mechanics of Materials (F) <br> Intro. To Thermal/Fluid Sciences (F) <br> Advanced Math <br> See Core Curriculum section of catalog for options <br> Oral Rhetoric for Engineers (F,S) |  |
| $\begin{aligned} & \text { 을 } \\ & \text { ¹ } \end{aligned}$ |  | Machine Design with Finite Element Analysis (S) Intermediate Thermal/Fluid Sciences \& Design (S) Dynamics of Machinery (S) <br> Engineering Instrumentation Laboratory (S) <br> See Core Curriculum section of catalog for options Fundamental Questions in Philosophy | Pink listings (core humanities courses) may be taken in any semester. ECON should be taken prior to BUS 357. PHIL 153 and REL 121/131 should be taken prior to ENGR 340. <br> See Elective Options sheet for courses allowed for the green, red, orange, blue and purple categories. Classes shaded in light brown are optional. |
|  $\square$ 4 Engineering 333 Thermal Systems Designs (F)  <br>  $\square$ 2 Engineering 339 Senior Project (F) See Elective Options sheet for courses <br> allowed for the green, red, orange, blue <br> and purple categories. Classes shaded in <br> light brown are optional.      |  |  |  |
| 츤 |  | Materials \& Processes in Manufacturing (S) Senior Design Project (S) <br> ENGR 314, 315, or 342 <br> 2 SH minimum <br> See Core Curriculum section of catalog for options Engineering Seminar |  |

Other Requirements

