| $\underset{ }{1}$ |  | General Chemistry (F,S) <br> Intro to Engineering Design (F) <br> Graphical Communication Lab (F) <br> Calculus I (F,S) <br> Community and Commitments | 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. <br> (S) |
| :---: | :---: | :---: | :---: |
| 흔 |  | Material Science (S) <br> Calculus II (F,S) <br> Introductory Physics, Mechanics and Gravity <br> Foundations of Christianity I <br> Foundational Writing |  |
| * Possibly insert Summer Program in Germany |  |  |  |
| $\pm$ |  | Multivariable Calculus - Math 270 (3 SH Fall only), Math 271 (4 SH 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> Foundations of Christianity II <br> Health and Movement <br> Internship Workshop |  |
| $\sim$ |  | Differential Equations with Linear Algebra (F,S) <br> Core Knowledge and Understanding (see Core Options sheet) <br> Engineering Statistics (S) <br> Engineering Seminar (does not require registration in advance) |  |
| * Possibly insert Summer Program in Germany |  |  |  |
| $\underset{ }{1}$ |  $\square$ 4 Engineering 305 <br>  $\square$ 4 Engineering 319 <br> $\stackrel{\text { ® }}{ }$    <br> $\stackrel{\rightharpoonup}{ت}$ $\square$ 4 Elective: Basic Science or <br> $\overline{\bar{\sigma}}$ $\square$ 4 Core Knowledge and Un <br> $\stackrel{\rightharpoonup}{\sim}$    <br>  $\square$ 2 Interdisciplinary 102 <br>   1 Engineering 384 | Mechanics of Materials (F) Intro. To Thermal/Fluid Sciences (F) dvanced Math (2 SH minimum) standing (see Core Options sheet) - tagged Oral Rhetoric for Engineers Sustainability Analysis (S) (Required for studen | eking Sustainability Designation) |
|  |  | Machine Design with Finite Element Analysis Intermediate Thermal/Fluid Sciences \& Desig Dynamics of Machinery and Instrumentation standing (see Core Options sheet) - tagged Health and Movement | (S) <br> (S) <br> (S) |
| Internship Experience (ENGR 385 Optional) |  |  |  |
| (1) |  $\square$ 4 Engineering 333 <br> $\widetilde{0}$ $\square$ 2 Engineering 339 <br> $\stackrel{-}{-1}$ $\square$ 4 Engineering Elective <br> $\overline{\bar{\sigma}}$ $\square$ 4 Elective: Basic Science, <br>  $\square$ 2 Business 357 | Thermal Systems Designs (F) <br> Senior Project (F) - core Contemp. Challenges <br> ENGR 314, 315, or 342 <br> vanced Math, Engineering, or Technical <br> Business Aspects for Engineers (F) | Pink listings (core humanities courses) may be taken in any semester. ECON should be taken prior to BUS 357. <br> See University Catalog or Elective Options sheet for courses allowed for the green, red, orange, blue and purple categories. Classes shaded in light brown are optional. <br> in advance) |
| 는 0 0 |  | Materials \& Processes in Manufacturing (S) Senior Design Project (S) <br> Typically ENGR 350 (2 SH minimum) standing (see Core Options sheet) - tagged Engineering Seminar (does not require regist |  |

## Other Requirements

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

