|  |  $\square$ 4 Chemistry 101 + 101L <br>  $\square$ 4 Engineering 101 + 101L <br> $\overline{\bar{J}}$ $\square$ 4 Mathematics 171 <br> $\overline{\bar{\Psi}}$ $\square$ 2 Core Foundations <br> $\square$ 2 Interdisciplinary 102  | General Chemistry I (F,S) <br> Intro to Engineering Design (F) <br> Calculus I (F,S) <br> CORE 100: Community and Commitments <br> Oral Rhetoric for Engineers (or IDIS 184) | * ENGR 20X - These courses are required but can be taken in any order (offered fall and spring): <br> ENGR 202* - Statics and Dynamics <br> ENGR 204 - Intro to Circuit Anal. and Electronics with Laboratory <br> ENGR 209 - Intro to Cons. Laws \& Fluid Mechanics * Course offered as part of the Summer Program in Germany. <br> (S) |
| :---: | :---: | :---: | :---: |
|  |  | Principles of Materials Science ( $S$ ) ENGR 209 - Intro to Cons * Course offered as part of th Calculus II (F,S) <br> Introductory Physics: Mechanics and Gravity (S) <br> Foundational Writing (ENGL 101) <br> Health and Movement (Personal Fitness) |  |
|  |  * Possibly insert Summer Program in Germany <br> $\square \square$ 4 <br> Engineering $20 X$  <br> $\square$  <br> $\square$ 4 Mathematics 271 | Multivariable Calculus (F,S) <br> Introductory Physics: Electricity and Magnetism (F) <br> Applied Computing (F) (CS 106 or 108 may be substituted but each is 4 SH) <br> Foundations of Christianity I <br> Internship Workshop (F, S) |  |
|  |  | Differential Equations with Linear Algebra ( $\mathrm{F}, \mathrm{S}$ ) <br> Engineering Statistics (S) <br> Foundations of Christianity II <br> Engineering Seminar (does not require registration in advance) |  |
|  |  * Possibly insert Summer Program in Germany  <br> $\square$ 4  | Mechanics of Materials (F) <br> Environmental Engineering (F) <br> Introduction to Thermal/Fluid Sciences (F) <br> Chemical Engineering Principles and Thermodynamics (F) <br> Sustainability Challenges <br> The Economics of Energy and Sustainability (F) (ES tag) |  |
|  |  | Environmental Engineering Design (S) <br> Intermediate Thermal/Fluid Sciences \& Design (S) <br> Chemical Engineering Thermodynamics (S) <br> One of ENGR 315 (F), ENGR 318 (S), ENGR 321 (S), or ENGR 342 (S) <br> Fluid Dynamics and Heat Transfer (S) <br> rstanding (see Core Options sheet) - D\&D or GR\&C tag <br> Health and Movement (Leisure, Sport, and Skills) | Pink listings (Calvin Core) may be taken in any semester. ECON should be taken prior to BUS 357. See Core Options sheet. |
|  | Sustainability-related Internship Exper  <br> $\square$ 4 <br> Engineering 320  <br> $\square$ 4 Engineering 333 | nce (optional for Sustainability Designation, ENGR 385 optional) <br> Hydraulic Engineering (F) <br> Thermal Systems Design (F) <br> ne of ENGR 315 (F), ENGR 318 (S), ENGR 321 (S), or ENGR 342 (S) <br> dvanced Math (2 SH minimum) <br> Senior Design Project (F) <br> Business Aspects for Engineers (F) <br> Sustainability Experience (F,S) (Required for students seeking Sustainabi | 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. |
|  |  $\square$ 4 <br> Engineering 340   <br> $O$ $\square$ 4 Engineering 354 | Senior Design Project (S) <br> Sustainability Engineering (S) <br> vanced Math, Engineering, or Technical (2 SH minimum) <br> standing (see Core Options sheet) - D\&D or GR\&C tag <br> standing (see Core Options sheet - 26 SH of total K\&U minimum) <br> Engineering Seminar (does not require registration in advance) |  |

## 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

Engineering Revised Mar 2024

