	(	Civi	l &	Environmental Eng	ineering Concentration Model I	Program (Star	ting Fall 2022)
First Year	Fall (15)		3	Chemistry 101 or 103 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) CORE 100: Community and Commitments	taken in any order: ENGR 202* - Statics ENGR 204 - Intro to with Lab	Circuit Analysis and Electronics
	Spring (17)			Engineering 205 Mathematics 172 Physics 133 + 133L Core Foundations Core Comp and Skills	Material Science (S) Calculus II (F,S) Introductory Physics, Mechanics and Gravit Foundations of Christianity I Foundational Writing	ENGR 209 - Intro to Conservation Laws & Fluid Mechanics * Course offered as part of the Summer Program in Germany  y (S)	
		* Possibly insert Summer Program in Germany					
Second Year	Fall (16)	□ 4 Engineering 20X ★ □ 4 Mathematics 271 Multivariable Calculus (F,S) □ 4 Physics 235 + 235L Introductory Physics: Electricity and Magnetism (F) □ 2 Computer Sci 104 + 104L Applied Computing (F) (CS 106 or 108 may be substituted but both are 4 SH) □ 2 Core Foundations Foundations of Christianity II □ 0 Engineering 295 Interdisciplinary 184 Intro to Sustainability Challenges (F,S) (ES tag, required for Sustainability Designation)					
	<b>Spring (18)</b>		4 4 2 2 2	Engineering 20X ★ Engineering 20X ★ Mathematics 231 Core Knowledge and Under Interdisciplinary 102 Statistics 241 Engineering 294	Differential Equations with Linear Algebra ( rstanding (see Core Options sheet)  Oral Rhetoric for Engineers  Engineering Statistics (S)  Engineering Seminar (does not require regi		e)
	* Possibly insert Summer Program in Germany						
Third Year	Fall (17)	□ 4 Engineering 305 Mechanics of Materials (F) □ 4 Engineering 306 Environmental Engineering (F) - ES tag □ 4 Engineering 320 Hydraulic Engineering (F) □ 2 Economics (2 SH min) ECON 191 (2) or 233 (4, ES tag) - ECON 221, 222, or 232 can be added or substituted □ 2 Core Knowledge and Understanding (see Core Options sheet) □ 1 Core Comp and Skills Health and Movement					
	<b>Spring (16)</b>						
Fourth Year	Internship Experience (ENGR 385 Optional)						
	Fall (17)		4 4 2 4 1 2	Engineering 327 Elective: Basic Science, Adv. Engineering 339 Core Knowledge and Under Core Comp and Skills Business 357	Structural Design (F)  N. Math, Engr, or Technical Senior Design Project (F) Instanding (see Core Options sheet) - D&D or Health and Movement Business Aspects for Engineers (F)	GR&C tag	Pink listings (core humanities courses) may be taken in any semester. ECON should be taken prior to BUS 357.  See University Catalog or Elective Options sheet for
	<b>Spring (14)</b>		4 4 4 2 0	Engineering 340	Advanced Math (2 SH minimum) Senior Design Project (S) rstanding (see Core Options sheet) - D&D or minimum) Engineering Seminar (does not require regi		courses allowed for the green, red, orange, blue and purple categories. Classes shaded in light brown are optional.

## **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
- $\ \square \ \ \textit{0-3 Engaged Citizenship Commitment Tag: Environmental Sustainability}$
- $\ \square\$  0-3 Engaged Citizenship Commitment Tag: Global Regions and Cultures

