Ci	IVII	& I	Env	monmental Engine	ering Concentration Model Program (St	arting rail 2020 of before)
First Year	Fall (17)		5 3 1	Chemistry 101 Engineering 101 Engineering 181	General Chemistry (F,S) Intro to Engineering Design (F) Graphical Communication Lab (F)	
			4 3 1	Mathematics 171  English 101 Interdisciplinary 149	Calculus I (F,S)  Written Rhetoric  First Year Seminar	★ ENGR 20x - These courses are required but can be taken in any order: ENGR 202* - Statics and Dynamics ENGR 204 - Intro to Circuit Anaysis and Electronics with Lab ENGR 209 - Intro to Conservation Laws & Fluid Mechanics
	Z		3	Interdisciplinary 150 Engineering 205	Developing the Christian Mind  Material Science (S)	
	Spring(15)		4 4 3 1	Mathematics 172 Physics 133 History Core Health and Fitness	Calculus II (F,S) Introductory Physics, Mechanics and Gravity (S) See Core Curriculum section of catalog for options See Core Curriculum section of catalog for options	* Course offered as part of the Summer Program in Germany
				y insert Summer Program in Germany	See core curricular section of cutalog for options	
Second Year	Fall (16)		4 Engineering 20x * ★ 3 Mathematics 270/271 Multivariable Calculus - Math 270 (F only), Math 271 (F,S) 4 Physics 235 Introductory Physics: Electricity and Magnetism (F) 2 Computer Science 104 Applied Computing (F) (CS 106 or 108 may be substituted but both are 4 SH) 3 Religion 121 or 131 Biblical Literature/Christian Theology 0 Engineering 295 Internship Workshop		ited but both are 4 SH)	
			1	Engineering 184	Sustainability Challenges (F) (Required for students seeking	ng Sustainability Designation)
	<b>Spring (17)</b>		4 4 4 3 2 0	Engineering 20x★ Engineering 20x★ Mathematics 231 Economics 221 or 151 Statistics 241 Engineering 294	Differential Equations with Linear Algebra (F,S)  Principles of Economics or Microeconomics (ECON 232 or 233 may be substituted)  Engineering Statistics (S)  Seminar	
					001111101	
				bly insert Summer Program in German		
l Year	Fall (16)					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
Third Year	Spring (17) Fall (16)	*	Possi 4 4 4 4 3	Engineering 305 Engineering 306 Engineering 320 The Arts	Mechanics of Materials (F) Environmental Engineering (F) Hydraulic Engineering (F) See Core Curriculum section of catalog for options	may be taken in any semester. ECON should be taken prior to BUS 357. PHIL
	(17)	*	Possi 4 4 4 3 1 4 4 4 2	Engineering 305 Engineering 306 Engineering 320 The Arts Health and Fitness  Engineering 328 Engineering 321 Engineering 326 Interdisciplinary 102	Mechanics of Materials (F) Environmental Engineering (F) Hydraulic Engineering (F) See Core Curriculum section of catalog for options See Core Curriculum section of catalog for options  Environmental Engineering Design (S) Hydraulic Enginering Design (S) Structural Analysis (S) Oral Rhetoric for Engineers (F,S)	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.  See Elective Options sheet for courses allowed for the green, red, orange, blue and purple categories. Classes shaded in light brown are optional.  **All students must take at least: - two engineering electives - one basic sci/advanced math elective - one bas sci/adv math/engr/tech elective
	Spring (17)		Possi 4 4 4 3 1 1 4 4 4 4 2 3 4 4 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Engineering 305 Engineering 306 Engineering 320 The Arts Health and Fitness  Engineering 321 Engineering 321 Engineering 326 Interdisciplinary 102 Philosophy 153  Engineering 327 One of Engineering 339 Literature Business 357 Health and Fitness Engineering 384	Mechanics of Materials (F) Environmental Engineering (F) Hydraulic Engineering (F) See Core Curriculum section of catalog for options See Core Curriculum section of catalog for options  Environmental Engineering Design (S) Hydraulic Enginering Design (S) Structural Analysis (S) Oral Rhetoric for Engineers (F,S) Fundamental Questions in Philosophy  Structural Design (F) Engineering Elective Elective: Basic Science, Adv. Math, Engr, or Technical Senior Design Project (F) See Core Curriculum section of catalog for options Business Aspects for Engineers (F) See Core Curriculum section of catalog for options Sustainability Analysis (Required for students seeking Susta	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.  See Elective Options sheet for courses allowed for the green, red, orange, blue and purple categories. Classes shaded in light brown are optional.  **All students must take at least: - two engineering electives - one basic sci/advanced math elective - one bas sci/adv math/engr/tech elective
Fourth Year Third Year	Spring (17)	*	Possi 4 4 4 4 2 3 4 4 2 2 4 2 2	Engineering 305 Engineering 306 Engineering 320 The Arts Health and Fitness  Engineering 321 Engineering 326 Interdisciplinary 102 Philosophy 153  Engineering 327 One of Engineering 339 Literature Business 357 Health and Fitness	Mechanics of Materials (F) Environmental Engineering (F) Hydraulic Engineering (F) See Core Curriculum section of catalog for options See Core Curriculum section of catalog for options  Environmental Engineering Design (S) Hydraulic Enginering Design (S) Structural Analysis (S) Oral Rhetoric for Engineers (F,S) Fundamental Questions in Philosophy  Structural Design (F) Engineering Elective Elective: Basic Science, Adv. Math, Engr, or Technical Senior Design Project (F) See Core Curriculum section of catalog for options Business Aspects for Engineers (F) See Core Curriculum section of catalog for options Sustainability Analysis (Required for students seeking Susta	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.  See Elective Options sheet for courses allowed for the green, red, orange, blue and purple categories. Classes shaded in light brown are optional.  **All students must take at least: - two engineering electives - one basic sci/advanced math elective - one bas sci/adv math/engr/tech elective

**Other Requirements** 



