BSE: Electrical & Computer Engineering Concentration Model Program						
					(Starting Fall 2023 or Later)	
First Year	Fall (16)		4 4 4 2 2	Chemistry 101 + 101L Engineering 101 + 101L Mathematics 171 Core Foundations Interdisciplinary 102	Calculus I (F,S) be ta CORE 100: Community and Commitments Oral Rhetoric for Engineers (or CS 104)	NGR 20X - These courses are required but can aken in any order (offered fall and spring): GR 202* - Statics and Dynamics GR 204 - Intro to Circuit Anal. and ectronics with Laboratory
	Spring (17)		4 4 4 4 1	Engineering 205 Mathematics 172 Physics 133 + 133L Core Comp and Skills Core Comp and Skills	i illiciples of Materials Science (5)	* Course offered as part of the Summer Program in Germany. EY (S)
Second Year	Fall (16)					
	Spring (18)		4 4 4 2 4 0	Engineering 20X ★ Engineering 20X ★ Mathematics 231 Statistics 241 Core Foundations Engineering 294	Differential Equations with Linear Algebra (F,S) Engineering Statistics (S) Foundations of Christianity I Engineering Seminar (does not require registration	n in advance)
	* Possibly insert Summer Program in Germany					
Third Year	Fall (16)		4 4 4 2 2	Engineering 311 + 311L Engineering 307 Comp Sci 112 + 112L Core Foundations Economics (2 SH min)	Electronic Devices and Circuits (F) Electrical Signals and Systems (F) Intro to Data Structures with C++ (F,S) Foundations of Christianity II ECON 191 (2) or 233 (4, ES tag) - ECON 221, 222, 6	or 232 can be added or substituted
	Spring (17)		4 4 4 4 1		Fundamentals of Digital Systems (S) Analog Circuits and Systems Design (S) dvanced Math, Engineering, or Technical erstanding (see Core Options sheet) - tagged Health and Movement (Leisure, Sport, and Skills)	Pink listings (core humanities courses) may be taken in any semester. ECON should be taken prior to BUS 357.
Fourth Year	Fall (16)		4 2 4 2 4 1	Interdisciplinary 384	Computer Architecture and Digital Systems Design Senior Design Project (F) Business Aspects for Engineers (F) erstanding (see Core Options sheet) - tagged Sustainability Experience (F,S) (Required for students	orange, blue and purple categories. Classes shaded in light brown are optional.
	Spring (16)		4 4 4 2 2	Engineering Elective	Engineering Electromagnetics (S) Senior Design Project (S) Advanced Math (2 SH minimum) Typically ENGR 350 (2 SH minimum) erstanding (see Core Options sheet - 26 SH of total) Engineering Seminar (does not require registration)	· · · · · · · · · · · · · · · · · · ·

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
- □ 0-3 Engaged Citizenship Commitment Tag: Environmental Sustainability
- □ 0-3 Engaged Citizenship Commitment Tag: Global Regions and Cultures

