				3 3 3 5 <b>8</b>		ng Fall 2020 or before)		
First Year	Fall (17)		3 1	Chemistry 101 Engineering 101 Engineering 181	General Chemistry I (F,S) Intro to Engineering Design (F) Graphical Communication Lab (F)	≠ ENCP 20v. Studente must take tue		
	Fall		4 3 1	Mathematics 171  English 101  Interdisciplinary 149	Calculus I (F,S)  Written Rhetoric  First Year Seminar	★ ENGR 20x - Students must take two out of three of the following courses: ENGR 202* - Statics and Dynamics ENGR 204 - Intro to Circuit Analysis and		
	Spring (17) INT			Interdisciplinary 150 Chemistry 102	Developing the Christian Mind General Chemistry II (S)	Electronics with Lab ENGR 205 - Material Science		
			4 4 3	Mathematics 172 Physics 133 History Core	Calculus II (F,S) Introductory Physics, Mechanics and Gravity (S) See Core Curriculum section of catalog for options	* Course offered as part of the Summer Program in Germany		
	Sp		1	Health and Fitness	See Core Curriculum section of catalog for options			
	* Possibly insert Summer Program in Germany							
Second Year			4	Engineering 209	Introduction to Conservation Laws and Fluid Mecha			
	Fall (16)		3	Mathematics 270/271	Multivariable Calculus - Math 270 (F only), Math 2	• • •		
				Physics 235	Introductory Physics: Electricity and Magnetism (F			
				Computer Science 104	Applied Computing (F) (CS 106 or 108 may be subst	cituted but both are 4 SH)		
			3 0	Religion 121 or 131 Engineering 295	Biblical Literature/Christian Theology Internship Workshop			
				Engineering 184		eking Sustainability Designation)		
	1 Engineering 184 Sustainability Challenges (F) (Required for students seeking Sustainability Designation)							
			4	Engineering 20x* ★				
	Spring (1		4	Engineering 20x ★				
			4	Mathematics 231	Differential Equations with Linear Algebra (F,S)			
			3	Economics 221 or 151	Principles of Economics/Principles of Microeconomics	ics (ECON 232 or 233 may be subsituted)		
			2	Statistics 241	Engineering Statistics (S)			
			0	Engineering 294	Seminar			
				* Possibly insert Summer Program in Germany				
			3	Engineering 303	Chem. Engr. Principles & Thermodynamics (F)	/E)		
	(17)		3 5	Engineering 303 Chemistry 241 OR 240	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry	(F)		
	Fall (17)		3 5 4	Engineering 303 Chemistry 241 OR 240 Chemistry 351 + 351L	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry Physical Chemistry I (F)	(F)		
ar	Fall (17)		3 5 4 3	Engineering 303 Chemistry 241 OR 240 Chemistry 351 + 351L The Arts	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry Physical Chemistry I (F) See Core Curriculum section of catalog for options	(F)		
Year	Fall (17)		3 5 4 3	Engineering 303 Chemistry 241 OR 240 Chemistry 351 + 351L	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry Physical Chemistry I (F)	(F)		
rd Year	Fall (17)		3 5 4 3 2	Engineering 303 Chemistry 241 OR 240 Chemistry 351 + 351L The Arts Interdisciplinary 102	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry Physical Chemistry I (F) See Core Curriculum section of catalog for options Oral Rhetoric for Engineers (F,S)	(F)		
hird Year			3 5 4 3 2	Engineering 303 Chemistry 241 OR 240 Chemistry 351 + 351L The Arts	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry Physical Chemistry I (F) See Core Curriculum section of catalog for options	(F)		
Third Year			3 5 4 3 2	Engineering 303 Chemistry 241 OR 240 Chemistry 351 + 351L The Arts Interdisciplinary 102 Engineering 312	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry Physical Chemistry I (F) See Core Curriculum section of catalog for options Oral Rhetoric for Engineers (F,S)  Chemical Engineering Thermodynamics (S)			
Third Year			3 5 4 3 2 4 4 5	Engineering 303 Chemistry 241 OR 240 Chemistry 351 + 351L The Arts Interdisciplinary 102  Engineering 312 Engineering 330 Chemistry 242 + 242L	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry Physical Chemistry I (F) See Core Curriculum section of catalog for options Oral Rhetoric for Engineers (F,S)  Chemical Engineering Thermodynamics (S) Fluid Flow & Heat Transfer (S)	Pink listings (core humanities courses) may be taken in any semester. ECON should be		
Third Year	Spring(17) Fall (17)		3 5 4 3 2 4 4 5	Engineering 303 Chemistry 241 OR 240 Chemistry 351 + 351L The Arts Interdisciplinary 102  Engineering 312 Engineering 330 Chemistry 242 + 242L Chemistry 324L plus (Ch	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry Physical Chemistry I (F) See Core Curriculum section of catalog for options Oral Rhetoric for Engineers (F,S)  Chemical Engineering Thermodynamics (S) Fluid Flow & Heat Transfer (S) Organic Chemistry II (S) emistry 320 OR 321) Biochemistry & Lab See Core Curriculum section of catalog for options	Pink listings (core humanities courses) may be taken in any semester. ECON should be taken prior to BUS 357. PHIL 153 and REL		
Third Year			3 5 4 3 2 4 4 5 OR	Engineering 303 Chemistry 241 OR 240 Chemistry 351 + 351L The Arts Interdisciplinary 102  Engineering 312 Engineering 330 Chemistry 242 + 242L Chemistry 324L plus (Ch Health and Fitness Philosophy 153	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry Physical Chemistry I (F) See Core Curriculum section of catalog for options Oral Rhetoric for Engineers (F,S)  Chemical Engineering Thermodynamics (S) Fluid Flow & Heat Transfer (S) Organic Chemistry II (S) emistry 320 OR 321) Biochemistry & Lab See Core Curriculum section of catalog for options Fundamental Questions in Philosophy	Pink listings (core humanities courses) may be taken in any semester. ECON should be		
Third Year			3 5 4 3 2 4 4 5 OR 1 3	Engineering 303 Chemistry 241 OR 240 Chemistry 351 + 351L The Arts Interdisciplinary 102  Engineering 312 Engineering 330 Chemistry 242 + 242L Chemistry 324L plus (Ch Health and Fitness Philosophy 153 Engineering 331	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry Physical Chemistry I (F) See Core Curriculum section of catalog for options Oral Rhetoric for Engineers (F,S)  Chemical Engineering Thermodynamics (S) Fluid Flow & Heat Transfer (S) Organic Chemistry II (S) emistry 320 OR 321) Biochemistry & Lab See Core Curriculum section of catalog for options Fundamental Questions in Philosophy Kinetics/Reactor Design	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 prior to ENGR		
Third Year	Spring(17)		3 5 4 3 2 4 4 5 OR 1 3	Engineering 303 Chemistry 241 OR 240 Chemistry 351 + 351L The Arts Interdisciplinary 102  Engineering 312 Engineering 330 Chemistry 242 + 242L Chemistry 324L plus (Ch Health and Fitness Philosophy 153 Engineering 331 Engineering 335	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry Physical Chemistry I (F) See Core Curriculum section of catalog for options Oral Rhetoric for Engineers (F,S)  Chemical Engineering Thermodynamics (S) Fluid Flow & Heat Transfer (S) Organic Chemistry II (S) emistry 320 OR 321) Biochemistry & Lab See Core Curriculum section of catalog for options Fundamental Questions in Philosophy Kinetics/Reactor Design Mass Transfer & Staging Operations (F)	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 prior to ENGR 340.  See Elective Options sheet for courses		
Third Year	Spring(17)		3 5 4 3 2 4 4 5 OR 1 3 4 4 2	Engineering 303 Chemistry 241 OR 240 Chemistry 351 + 351L The Arts Interdisciplinary 102  Engineering 312 Engineering 330 Chemistry 242 + 242L Chemistry 324L plus (Ch Health and Fitness Philosophy 153 Engineering 331 Engineering 335 Engineering 339	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry Physical Chemistry I (F) See Core Curriculum section of catalog for options Oral Rhetoric for Engineers (F,S)  Chemical Engineering Thermodynamics (S) Fluid Flow & Heat Transfer (S) Organic Chemistry II (S) emistry 320 OR 321) Biochemistry & Lab See Core Curriculum section of catalog for options Fundamental Questions in Philosophy Kinetics/Reactor Design Mass Transfer & Staging Operations (F) Senior Design Project (F)	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 prior to ENGR 340.		
Third Year	III (18) Spring(17)		3 5 4 3 2 4 4 5 OR 1 3 4 4 2	Engineering 303 Chemistry 241 OR 240 Chemistry 351 + 351L The Arts Interdisciplinary 102  Engineering 312 Engineering 330 Chemistry 242 + 242L Chemistry 324L plus (Ch Health and Fitness Philosophy 153 Engineering 331 Engineering 335 Engineering 339 Engineering 339 Engineering 351	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry Physical Chemistry I (F) See Core Curriculum section of catalog for options Oral Rhetoric for Engineers (F,S)  Chemical Engineering Thermodynamics (S) Fluid Flow & Heat Transfer (S) Organic Chemistry II (S) emistry 320 OR 321) Biochemistry & Lab See Core Curriculum section of catalog for options Fundamental Questions in Philosophy Kinetics/Reactor Design Mass Transfer & Staging Operations (F) Senior Design Project (F) Process Safety (F)	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 prior to ENGR 340.  See Elective Options sheet for courses allowed for the orange and green categories.		
	III (18) Spring(17)		3 5 4 3 2 4 4 5 OR 1 3 4 4 4 2 1 4	Engineering 303 Chemistry 241 OR 240 Chemistry 351 + 351L The Arts Interdisciplinary 102  Engineering 312 Engineering 330 Chemistry 242 + 242L Chemistry 324L plus (Ch Health and Fitness Philosophy 153 Engineering 331 Engineering 335 Engineering 339 Engineering 351 Elective: Advanced Scien	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry Physical Chemistry I (F) See Core Curriculum section of catalog for options Oral Rhetoric for Engineers (F,S)  Chemical Engineering Thermodynamics (S) Fluid Flow & Heat Transfer (S) Organic Chemistry II (S) emistry 320 OR 321) Biochemistry & Lab See Core Curriculum section of catalog for options Fundamental Questions in Philosophy Kinetics/Reactor Design Mass Transfer & Staging Operations (F) Senior Design Project (F) Process Safety (F) Ince (2 SH minimum)	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 prior to ENGR 340.  See Elective Options sheet for courses allowed for the orange and green		
	III (18) Spring(17)		3 5 4 3 2 4 4 5 OR 1 3 4 4 2 1 4 2	Engineering 303 Chemistry 241 OR 240 Chemistry 351 + 351L The Arts Interdisciplinary 102  Engineering 312 Engineering 330 Chemistry 242 + 242L Chemistry 324L plus (Ch Health and Fitness Philosophy 153 Engineering 331 Engineering 335 Engineering 339 Engineering 351 Elective: Advanced Scier Business 357	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry Physical Chemistry I (F) See Core Curriculum section of catalog for options Oral Rhetoric for Engineers (F,S)  Chemical Engineering Thermodynamics (S) Fluid Flow & Heat Transfer (S) Organic Chemistry II (S) emistry 320 OR 321) Biochemistry & Lab See Core Curriculum section of catalog for options Fundamental Questions in Philosophy  Kinetics/Reactor Design Mass Transfer & Staging Operations (F) Senior Design Project (F) Process Safety (F) ace (2 SH minimum) Business Aspects for Engineers (F)	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 prior to ENGR 340.  See Elective Options sheet for courses allowed for the orange and green categories.  Classes shaded in light brown are optional.		
	III (18) Spring(17)		3 5 4 3 2 4 4 5 OR 1 3 4 4 4 2 1 4	Engineering 303 Chemistry 241 OR 240 Chemistry 351 + 351L The Arts Interdisciplinary 102  Engineering 312 Engineering 330 Chemistry 242 + 242L Chemistry 324L plus (Ch Health and Fitness Philosophy 153 Engineering 331 Engineering 335 Engineering 339 Engineering 351 Elective: Advanced Scier Business 357	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry Physical Chemistry I (F) See Core Curriculum section of catalog for options Oral Rhetoric for Engineers (F,S)  Chemical Engineering Thermodynamics (S) Fluid Flow & Heat Transfer (S) Organic Chemistry II (S) emistry 320 OR 321) Biochemistry & Lab See Core Curriculum section of catalog for options Fundamental Questions in Philosophy Kinetics/Reactor Design Mass Transfer & Staging Operations (F) Senior Design Project (F) Process Safety (F) Ince (2 SH minimum)	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 prior to ENGR 340.  See Elective Options sheet for courses allowed for the orange and green categories.  Classes shaded in light brown are optional.		
	III (18) Spring(17)		3 5 4 3 2 4 4 5 OR 1 3 4 4 2 1 4 2	Engineering 303 Chemistry 241 OR 240 Chemistry 351 + 351L The Arts Interdisciplinary 102  Engineering 312 Engineering 330 Chemistry 242 + 242L Chemistry 324L plus (Ch Health and Fitness Philosophy 153 Engineering 331 Engineering 335 Engineering 339 Engineering 351 Elective: Advanced Scier Business 357	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry Physical Chemistry I (F) See Core Curriculum section of catalog for options Oral Rhetoric for Engineers (F,S)  Chemical Engineering Thermodynamics (S) Fluid Flow & Heat Transfer (S) Organic Chemistry II (S) emistry 320 OR 321) Biochemistry & Lab See Core Curriculum section of catalog for options Fundamental Questions in Philosophy  Kinetics/Reactor Design Mass Transfer & Staging Operations (F) Senior Design Project (F) Process Safety (F) ace (2 SH minimum) Business Aspects for Engineers (F)	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 prior to ENGR 340.  See Elective Options sheet for courses allowed for the orange and green categories.  Classes shaded in light brown are optional.		
	Fall (18) Spring(17)		3 5 4 3 2 4 4 5 OR 1 3 4 4 2 1 4 2	Engineering 303 Chemistry 241 OR 240 Chemistry 351 + 351L The Arts Interdisciplinary 102  Engineering 312 Engineering 330 Chemistry 242 + 242L Chemistry 324L plus (Ch Health and Fitness Philosophy 153 Engineering 331 Engineering 335 Engineering 339 Engineering 351 Elective: Advanced Scier Business 357 Engineering 384	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry Physical Chemistry I (F) See Core Curriculum section of catalog for options Oral Rhetoric for Engineers (F,S)  Chemical Engineering Thermodynamics (S) Fluid Flow & Heat Transfer (S) Organic Chemistry II (S) emistry 320 OR 321) Biochemistry & Lab See Core Curriculum section of catalog for options Fundamental Questions in Philosophy Kinetics/Reactor Design Mass Transfer & Staging Operations (F) Senior Design Project (F) Process Safety (F) Ince (2 SH minimum) Business Aspects for Engineers (F) Sustainability Analysis (Required for students seeking St	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 prior to ENGR 340.  See Elective Options sheet for courses allowed for the orange and green categories.  Classes shaded in light brown are optional.		
Fourth Year Third Year	Fall (18) Spring(17)		3 5 4 4 5 OR 1 3 4 4 2 1 4 2 1	Engineering 303 Chemistry 241 OR 240 Chemistry 351 + 351L The Arts Interdisciplinary 102  Engineering 312 Engineering 330 Chemistry 242 + 242L Chemistry 324L plus (Ch Health and Fitness Philosophy 153 Engineering 331 Engineering 335 Engineering 335 Engineering 339 Engineering 351 Elective: Advanced Scier Business 357 Engineering 384  Engineering 337	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry Physical Chemistry I (F) See Core Curriculum section of catalog for options Oral Rhetoric for Engineers (F,S)  Chemical Engineering Thermodynamics (S) Fluid Flow & Heat Transfer (S) Organic Chemistry II (S) emistry 320 OR 321) Biochemistry & Lab See Core Curriculum section of catalog for options Fundamental Questions in Philosophy Kinetics/Reactor Design Mass Transfer & Staging Operations (F) Senior Design Project (F) Process Safety (F) Index (2 SH minimum) Business Aspects for Engineers (F) Sustainability Analysis (Required for students seeking Students) Chemical Engineering Laboratory (S)	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 prior to ENGR 340.  See Elective Options sheet for courses allowed for the orange and green categories.  Classes shaded in light brown are optional.		
	Fall (18) Spring(17)		3 5 4 4 4 5 0R 1 3 4 4 2 1 4 2 1	Engineering 303 Chemistry 241 OR 240 Chemistry 351 + 351L The Arts Interdisciplinary 102  Engineering 312 Engineering 330 Chemistry 242 + 242L Chemistry 324L plus (Ch Health and Fitness Philosophy 153 Engineering 331 Engineering 335 Engineering 335 Engineering 337 Engineering 384  Engineering 384	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry Physical Chemistry I (F) See Core Curriculum section of catalog for options Oral Rhetoric for Engineers (F,S)  Chemical Engineering Thermodynamics (S) Fluid Flow & Heat Transfer (S) Organic Chemistry II (S) emistry 320 OR 321) Biochemistry & Lab See Core Curriculum section of catalog for options Fundamental Questions in Philosophy  Kinetics/Reactor Design Mass Transfer & Staging Operations (F) Senior Design Project (F) Process Safety (F) ace (2 SH minimum) Business Aspects for Engineers (F) Sustainability Analysis (Required for students seeking Stenior Design Project (S)	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 prior to ENGR 340.  See Elective Options sheet for courses allowed for the orange and green categories.  Classes shaded in light brown are optional.		
	III (18) Spring(17)		3 5 4 4 5 0 8 1 4 4 2 1 4 2 1	Engineering 303 Chemistry 241 OR 240 Chemistry 351 + 351L The Arts Interdisciplinary 102  Engineering 312 Engineering 330 Chemistry 242 + 242L Chemistry 324L plus (Ch Health and Fitness Philosophy 153 Engineering 331 Engineering 335 Engineering 339 Engineering 351 Elective: Advanced Scier Business 357 Engineering 384  Engineering 340 Engineering 340 Engineering 342 Literature Health and Fitness	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry Physical Chemistry I (F) See Core Curriculum section of catalog for options Oral Rhetoric for Engineers (F,S)  Chemical Engineering Thermodynamics (S) Fluid Flow & Heat Transfer (S) Organic Chemistry II (S) emistry 320 OR 321) Biochemistry & Lab See Core Curriculum section of catalog for options Fundamental Questions in Philosophy Kinetics/Reactor Design Mass Transfer & Staging Operations (F) Senior Design Project (F) Process Safety (F) Ince (2 SH minimum) Business Aspects for Engineers (F) Sustainability Analysis (Required for students seeking State of Chemical Engineering Laboratory (S) Senior Design Project (S) Process Control (S) See Core Curriculum section of catalog for options See Core Curriculum section of catalog for options	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 prior to ENGR 340.  See Elective Options sheet for courses allowed for the orange and green categories.  Classes shaded in light brown are optional.		
	Fall (18) Spring(17)		3 5 4 4 5 OR 1 3 4 4 2 1 4 2 1 4 4 2 1	Engineering 303 Chemistry 241 OR 240 Chemistry 351 + 351L The Arts Interdisciplinary 102  Engineering 312 Engineering 330 Chemistry 242 + 242L Chemistry 324L plus (Ch Health and Fitness Philosophy 153  Engineering 331 Engineering 339 Engineering 339 Engineering 351 Elective: Advanced Sciener Business 357 Engineering 384  Engineering 340 Engineering 340 Engineering 342 Literature	Chem. Engr. Principles & Thermodynamics (F) Organic Chemistry I or Fund. of Organic Chemistry Physical Chemistry I (F) See Core Curriculum section of catalog for options Oral Rhetoric for Engineers (F,S)  Chemical Engineering Thermodynamics (S) Fluid Flow & Heat Transfer (S) Organic Chemistry II (S) emistry 320 OR 321) Biochemistry & Lab See Core Curriculum section of catalog for options Fundamental Questions in Philosophy  Kinetics/Reactor Design Mass Transfer & Staging Operations (F) Senior Design Project (F) Process Safety (F) Ince (2 SH minimum) Business Aspects for Engineers (F) Sustainability Analysis (Required for students seeking Stational Engineering Laboratory (S) Senior Design Project (S) Process Control (S) See Core Curriculum section of catalog for options	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 prior to ENGR 340.  See Elective Options sheet for courses allowed for the orange and green categories.  Classes shaded in light brown are optional.		

