

**Study Plan for B.S.E., INTERDISCIPLINARY ENGINEERING & Environmental emphasis**

(2018-19 Catalog) (MTH 201 Placement - 4 Year Program)

Minor: \_\_\_\_\_

Student Name: \_\_\_\_\_  
Student ID#: G \_\_\_\_\_

<b>1st Year</b>	<b>1st Semester: Fall</b> _____ * MTH 201 Calculus I 4 _____ * WRT 150 Writ Strategies 4 _____ * EGR 106 Intro to Egr Design I 3 _____ * CHM 115 Chemistry I 4 _____	<b>2nd Semester: Winter</b> _____ * MTH 202 Calculus II 4 _____ * PHY 230 Physics I 5 _____ * EGR 107 Intro to Egr Design II 3 _____ * STA 220 Engrg Statistics 2 _____ * EGR 220 Engrg Stats Lab 1 _____	<b>Semester: S/S</b> _____ _____
	<b>3rd Semester: Fall</b> _____ * MTH 203 Calculus III 4 _____ * PHY 234/1 Physics II 4/5 _____ * EGR 226 MicroCtrl Pgm Appl 4 _____ * EGR 209 Mech & Mach 4 _____ * EGR 289 Engrg Co-op Prep 1 _____	<b>4th Semester: Winter</b> _____ * MTH 302 Lin Alg & DEQ 4 _____ * EGR 309 Machine Design I 4 _____ * EGR 250 Materials Science 4 _____ * EGR 214 Circuit Analysis I 4 _____	<b>Semester: S/S</b> _____ EGR 290 Engrg Co-op I 3 _____
<b>3rd Year</b>	<b>5th Semester: Fall</b> _____ EGR 346 Mechatronic Sys. 4 _____ EGR 360 Thermodynamics 4 _____ BIO 120 General Biology I 4 _____ @ GE - P & L (PHI 102 Ethics) 3 _____	<b>Semester: Winter</b> _____ EGR 390 Engrg Co-op II (SWS) 3 _____ GE - Issue 3 _____	<b>6th Semester: S/S</b> _____ BIO 105 Enviro Science 3 _____ EGR 365 Fluid Mechanics 4 _____ BIO 215 General Ecology 4 _____ GE-Art 3 _____
	<b>Semester: Fall</b> _____ EGR 490 Engrg Co-op III 3 _____ EGR 463 Alt Energy Apps 4 _____	<b>7th Semester: Winter</b> _____ EGR 485 Sr Project I 1 _____ ~ EGR 437 Enviro Engrg 3 _____ CHM 230 Intro to Org Chem 3 _____ ♦ GEO 360 Earth Resources 3 _____ GE - Hist 3 _____	<b>8th Semester: S/S</b> _____ EGR 486 Sr Project II 2 _____ • GE - Issue 3 _____ • GE - SBS /US 3 _____ # GE - GP 3 _____ % ECO 210/211 Economics 3 _____

**PCEC Student Services: (616)331-6025**

- \* Engineering Foundation course - requires PDM foundations
- + Students may enroll in PHY 231 instead of PHY 234
- Consider taking a course that doubles as SBS and US (See Gen Ed guide for selections)
- # Consider taking a course that doubles as GP and Issue (See Gen Ed guide for selections)
- @ An ethics course is required in the engineering program (PHI 102 or another ethics course in General Education). Consider taking PHI 102 as an SWS.
- % ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS GenEd requirement.
- ♦ GEO 360 fulfills an Issues requirement. Students may take either GEO 300-Geology & the Environment or GEO 360-Earth Resources
- ~ Course is only offered at Cornerstone University

**Secondary Admissions Criteria:**

- A GPA of 2.7 or above in the Engineering Foundation courses
- Completion of each course in the Engineering Foundation with a grade of C (2.0) or above, **with no more than one repeat per course**
- Completion of preparation for placement in the cooperative engineering education, EGR 289

**Recommendation:**

It is strongly encouraged that students do not begin or break a curriculum thread by taking courses at other institutions; e.g., take the MTH 201 equivalent elsewhere, return to GV and continue in the math thread with MTH 202.