

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

(2018-19 Catalog) (MTH 123 Placement - 5 Year Program)

Minor: _____

Student Name: _____

Student ID#: **G** _____

1st Year	1st Semester: Fall _____	<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	2nd Semester: Winter _____	<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	Semester: S/S _____	<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>
	MTH 123 Trigonometry * WRT 150 Writ Strategies ^ EGR 100 Intro to Engrg GE - Hist _____ GE - Arts _____	3 4 1 3 3	_____	_____	* MTH 201 Calculus I * CHM 115 Chemistry I * EGR 106 Intro to Egr Design I • GE-SBS _____	4 4 3 3	_____	_____	_____	_____	_____	_____
2nd Year	3rd Semester: Fall _____	<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	4th Semester: Winter _____	<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	Semester: S/S _____	<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>
	* MTH 202 Calculus II * EGR 107 Intro to Egr Design II % ECO 210/211 Economics GE - US _____	4 3 3 3	_____	_____	* MTH 203 Calculus III * STA 220 Engrg Statistics * EGR 220 Engrg Stats Lab * PHY 230 Physics I @ GE - P & L (PHI 102 Ethics)	4 2 1 5 3	_____	_____	_____	_____	_____	_____
3rd Year	5th Semester: Fall _____	<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	6th Semester: Winter _____	<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	Semester: S/S _____	<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>
	+ * PHY 234/1 Physics II * EGR 209 Mech & Mach * EGR 226 MicroCtrl Pgm Appl * EGR 289 Engrg Co-op Prep	4/5 4 4 1	_____	_____	* MTH 302 Lin Alg & DEQ * EGR 309 Machine Design I * EGR 250 Materials Science * EGR 214 Circuit Analysis I	4 4 4 4	_____	_____	EGR 290 Engrg Co-op I	3	_____	_____
4th Year	7th Semester: Fall _____	<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	Semester: Winter _____	<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	8th Semester: S/S _____	<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>
	EGR 346 Mechatronic Sys. EGR 360 Thermodynamics BIO 120 General Biology I	4 4 4	_____	_____	EGR 390 Engrg Co-op II (SWS)	3	_____	_____	BIO 105 Enviro Science EGR 365 Fluid Mechanics BIO 215 General Ecology GE - Issue _____	3 4 4 3	_____	_____
5th Year	Semester: Fall _____	<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	9th Semester: Winter _____	<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	10th Semester: S/S _____	<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>
	EGR 490 Engrg Co-op III EGR 463 Alt Energy Apps	3 4	_____	_____	EGR 485 Sr Project I ~ EGR 437 Enviro Engrg CHM 230 Intro to Org Chem • GEO 300 Geology & Enviro # GE - GP _____	1 3 4 3 3	_____	_____	EGR 486 Sr Project II GE - Issue _____	2 3	_____	_____

PCEC Student Services: (616)331-6025

- * Engineering Foundation course
- + Students may enroll in PHY 231 instead of PHY 234
- ^ Not required, but strongly recommended for success.
- 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).
- % ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS Gen Ed 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