

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

(2019-20 Catalog) (MTH 110 Placement - 5 Year Program) Minor: _____

Student Name: _____

Student ID#: G

Year	Semester	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	
1st Year	1st Semester: Fall										
	MTH 110 Algebra	4	_____	_____							
	* WRT 150 Writ Strategies	4	_____	_____							
	^ EGR 100 Intro to Engrg	1	_____	_____							
	GE - Arts _____	3	_____	_____							
GE - HP _____	3	_____	_____								
2nd Year	2nd Semester: Winter										
	MTH 124 Functions & Models	5	_____	_____							
	* CHM 115 Chemistry I	4	_____	_____							
	• GE-SBS/US _____	3	_____	_____							
3rd Year	3rd Semester: Fall										
	* MTH 201 Calculus I	4	_____	_____							
	* EGR 106 Intro to Egr Design I	3	_____	_____							
	% ECO 210/211 Economics	3	_____	_____							
	@ GE - P & L (PHI 102 Ethics)	3	_____	_____							
4th Year	4th Semester: Winter										
	* MTH 202 Calculus II	4	_____	_____							
	* EGR 107 Intro to Egr Design II	3	_____	_____							
	* PHY 230 Physics I	5	_____	_____							
	* STA 220 Statistical Modeling	2	_____	_____							
* EGR 220 Measure/Data Analysis	1	_____	_____								
5th Year	5th Semester: Fall										
	* MTH 203 Calculus III	4	_____	_____							
	+ * PHY 234/1 Physics II	4/5	_____	_____							
	* EGR 209 Mech & Mach	4	_____	_____							
	* EGR 226 MicroCtrl Pgm Appl	4	_____	_____							
* EGR 289 Engrg Co-op Prep	1	_____	_____								
6th Semester: Winter											
	* MTH 302 Lin Alg & DEQ	4	_____	_____							
	* EGR 309 Machine Design I	4	_____	_____							
	* EGR 250 Materials Science	4	_____	_____							
	* EGR 214 Circuit Analysis I	4	_____	_____							
7th Semester: Fall											
	EGR 346 Mechatronic Sys.	4	_____	_____							
	EGR 360 Thermodynamics	4	_____	_____							
	§ BIO 120 General Biology I	4	_____	_____							
8th Semester: S/S											
	BIO 105 Enviro Science	3	_____	_____							
	EGR 365 Fluid Mechanics	4	_____	_____							
	BIO 215 General Ecology	4	_____	_____							
9th Semester: Winter											
	EGR 485 Sr Project I	1	_____	_____							
	~ EGR 437 Enviro Engrg	3	_____	_____							
	CHM 230 Intro to Org Chem	4	_____	_____							
	& GEO 360 Earth Resources	3	_____	_____							
GE - Issue _____	3	_____	_____								
10th Semester: S/S											
	EGR 486 Sr Project II	2	_____	_____							
	# GE - GP _____	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.
- ~ Course is only offered at Cornerstone University
- § BIO 120 is required for major and fulfills the Life Sciences Gen Ed requirement.
- & Required for major and also fulfills one Issues requirement

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.