

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

(2019-20 Catalog) (MTH 124 Placement - 5 Year Program)

Minor: _____

Student Name: _____

Student ID#: **G** _____

Year	1st Semester: Fall _____			2nd Semester: Winter _____			Semester: S/S _____								
	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed						
1st Year	MTH 124	Functions & Models	5	_____	_____	* MTH 201	Calculus I	4	_____	_____	_____	_____	_____	_____	
	* WRT 150	Writ Strategies	4	_____	_____	* CHM 115	Chemistry I	4	_____	_____	_____	_____	_____	_____	
	^ EGR 100	Intro to Engrg	1	_____	_____	* EGR 106	Intro to Egr Design I	3	_____	_____	_____	_____	_____	_____	
	GE - HP	_____	3	_____	_____	GE - Arts	_____	3	_____	_____	_____	_____	_____	_____	
	^ EGR 180	Intro Engrg Prob Solv	3	_____	_____										
2nd Year	3rd Semester: Fall _____			4th Semester: Winter _____			Semester: S/S _____								
	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed						
	* MTH 202	Calculus II	4	_____	_____	* MTH 203	Calculus III	4	_____	_____	_____	_____	_____	_____	
	* EGR 107	Intro to Egr Design II	3	_____	_____	* STA 220	Statistical Modeling	2	_____	_____	_____	_____	_____	_____	
	@ GE - P & L (PHI 102 Ethics)	_____	3	_____	_____	* EGR 220	Measure/Data Analysis	1	_____	_____	_____	_____	_____	_____	
	• GE-SBS/US	_____	3	_____	_____	* PHY 230	Physics I	5	_____	_____	_____	_____	_____	_____	
						% ECO 210/211	Economics	3	_____	_____	_____	_____	_____	_____	
3rd Year	5th Semester: Fall _____			6th Semester: Winter _____			Semester: S/S _____								
	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed						
	+ * PHY 234/1	Physics II	4/5	_____	_____	* MTH 302	Lin Alg & DEQ	4	_____	_____	EGR 290	Engrg Co-op I	3	_____	_____
	* EGR 209	Mech & Mach	4	_____	_____	* EGR 309	Machine Design I	4	_____	_____					
	* EGR 226	MicroCtrl Pgm Appl	4	_____	_____	* EGR 250	Materials Science	4	_____	_____					
	* EGR 289	Engrg Co-op Prep	1	_____	_____	* EGR 214	Circuit Analysis I	4	_____	_____					
4th Year	7th Semester: Fall _____			Semester: Winter _____			8th Semester: S/S _____								
	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed						
	EGR 346	Mechatronic Sys.	4	_____	_____	EGR 390	Engrg Co-op II (SWS)	3	_____	_____	BIO 105	Enviro Science	3	_____	_____
	EGR 360	Thermodynamics	4	_____	_____						EGR 365	Fluid Mechanics	4	_____	_____
	§ BIO 120	General Biology I	4	_____	_____						BIO 215	General Ecology	4	_____	_____
											GE - Issue	_____	3	_____	_____
5th Year	Semester: Fall _____			9th Semester: Winter _____			10th Semester: S/S _____								
	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed						
	EGR 490	Engrg Co-op III	3	_____	_____	EGR 485	Sr Project I	1	_____	_____	EGR 486	Sr Project II	2	_____	_____
	EGR 463	Alt Energy Apps	4	_____	_____	~ EGR 437	Enviro Engrg	3	_____	_____					
						CHM 230	Intro to Org Chem	4	_____	_____					
						& GEO 360	Earth Resources	3	_____	_____					
						# 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. Students are advised to take either EGR 100 or EGR 180.
- 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.