

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

Student Name: \_\_\_\_\_

(2018-19 Catalog) (MTH 124 Placement - 5 Year Program)

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

Student ID#: **G** \_\_\_\_\_

Year	Semester	Credits	Grade	Semester Completed	Semester	Credits	Grade	Semester Completed	Semester	Credits	Grade	Semester Completed
1st Year	1st Semester: Fall				2nd Semester: Winter				Semester: S/S			
	* 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			
	* 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			
	+ * 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			
	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			
	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.