

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

(2018-19 Catalog)

(MTH 110 Placement - 5 Year Program)

Minor:

Student Name:

Student ID#:

G

1st Year	1st Semester: Fall _____			Credits	Grade	Semester Completed	2nd Semester: Winter _____			Credits	Grade	Semester Completed	Semester: S/S _____			Credits	Grade	Semester Completed
	MTH	110	Algebra	4	_____	_____	MTH	122	College Algebra	3	_____	_____	_____	_____	_____	_____	_____	_____
	*	WRT	150	Writ Strategies	4	_____	_____	MTH	123	Trigonometry	3	_____	_____	_____	_____	_____	_____	_____
	^	EGR	100	Intro to Engrg	1	_____	_____	*	CHM	115	Chemistry I	4	_____	_____	_____	_____	_____	_____
		GE - Arts	_____	_____	3	_____	_____	•	GE-SBS/US	_____	3	_____	_____	_____	_____	_____	_____	_____
	GE - Hist	_____	_____	3	_____	_____												
2nd Year	3rd Semester: Fall _____			Credits	Grade	Semester Completed	4th Semester: Winter _____			Credits	Grade	Semester Completed	Semester: S/S _____			Credits	Grade	Semester Completed
	*	MTH	201	Calculus I	4	_____	_____	*	MTH	202	Calculus II	4	_____	_____	_____	_____	_____	_____
	*	EGR	106	Intro to Egr Design I	3	_____	_____	*	EGR	107	Intro to Egr Design II	3	_____	_____	_____	_____	_____	_____
	%	ECO	210/211	Economics	3	_____	_____	*	PHY	230	Physics I	5	_____	_____	_____	_____	_____	_____
	@	GE - P & L (PHI 102 Ethics)	_____	_____	3	_____	_____	*	STA	220	Engrg Statistics	2	_____	_____	_____	_____	_____	_____
							*	EGR	220	Engrg Stats Lab	1	_____	_____	_____	_____	_____	_____	
3rd Year	5th Semester: Fall _____			Credits	Grade	Semester Completed	6th Semester: Winter _____			Credits	Grade	Semester Completed	Semester: S/S _____			Credits	Grade	Semester Completed
	*	MTH	203	Calculus III	4	_____	_____	*	MTH	302	Lin Alg & DEQ	4	_____	_____	_____	_____	_____	_____
	+	PHY	234/I	Physics II	4/5	_____	_____	*	EGR	309	Machine Design I	4	_____	_____	_____	_____	_____	_____
	*	EGR	209	Mech & Mach	4	_____	_____	*	EGR	250	Materials Science	4	_____	_____	_____	_____	_____	_____
	*	EGR	226	MicroCtrl Pgm Appl	4	_____	_____	*	EGR	214	Circuit Analysis I	4	_____	_____	_____	_____	_____	_____
	*	EGR	289	Engrg Co-op Prep	1	_____	_____											
4th Year	7th Semester: Fall _____			Credits	Grade	Semester Completed	Semester: Winter _____			Credits	Grade	Semester Completed	8th Semester: S/S _____			Credits	Grade	Semester Completed
	EGR	346	Mechatronic Sys.	4	_____	_____	EGR	390	Engrg Co-op II	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 _____			Credits	Grade	Semester Completed	9th Semester: Winter _____			Credits	Grade	Semester Completed	10th Semester: S/S _____			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	_____	#	GE - GP	_____	3	_____	_____
							CHM	230	Intro to Org Chem	4	_____	_____						
							•	GEO	300	Geology & Enviro	3	_____						
						GE - Issue			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 math thread with MTH 202.