

Study Plan for B.S.E., INTERDISCIPLINARY ENGINEERING with Design & Innovation emphasis

(2018-19 Catalog) (MTH 122 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	122	College Algebra	3	_____	_____	MTH	123	Trigonometry	3	_____	_____	_____	_____	_____	_____	_____	_____
	*	WRT	150	Writ Strategies	4	_____	*	CHM	115	Chemistry I	4	_____	_____	_____	_____	_____	_____	
	=	EGR	100	Intro to Engrg	1	_____		GE - HP	_____	3	_____	_____	_____	_____	_____	_____	_____	
		GE - Arts	_____	_____	3	_____	@	GE - P & L (PHI 102 Ethics)	_____	3	_____	_____	_____	_____	_____	_____	_____	
	•	GE-SBS	_____	_____	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	_____	_____	_____	_____	_____	_____	
		GE - LS	_____	_____	3	_____	*	PHY	230	Physics I	5	_____	_____	_____	_____	_____	_____	
	~	IDS	101	Inov & Prob Solving	2	_____	*	STA	220	Statistical Modeling	2	_____	_____	_____	_____	_____	_____	
						*	EGR	220	Measure/Data Analysis	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	_____	_____	EGR	290	Engrg Co-op I	3	_____
	+	PHY	234/1	Physics II	4/5	_____	*	EGR	309	Machine Design I	4	_____	_____					
	*	EGR	226	MicroCtrl Pgm Appl	4	_____	*	EGR	250	Materials Science	4	_____	_____					
	*	EGR	209	Mech & Mach	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	301	Fund Prod Des	4	_____	_____	EGR	390	Engrg Co-op II (SWS)	3	_____	_____	EGR	362	Thermo-Fluid Sys	4	_____	_____
	EGR	345	Dyn Sys Mod	4	_____	_____	LIB	323	Design Thinking	3	_____	_____	^	IE	Elec	3/4	_____	_____
	EGR	367	Mfg Processes	4	_____	_____							#	GE - GP	_____	3	_____	_____
	~	MDA	112	Design Drawing I	3	_____							!	LIB	310	Creativity	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	_____	_____
	~	IDS	313	Thought & Design II	3	_____	~	IDS	413	Thought & Design III	3	_____	%	ECO	210/211	Economics	3	_____
							~	IDS	312	Human Innovation	3	_____						
		•	GE - US	_____	_____	3	_____	•	GE - US	_____	3	_____	_____					
		GE - Issue	_____	_____	3	_____		GE - Issue	_____	3	_____	_____						

PCEC Student Services: (616)331-6025

- * Engineering Foundation course
- + Students may enroll in PHY 231 instead of PHY 234
- # 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).
Consider taking PHI 102 as an SWS.
- % ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS Gen Ed requirement.
- ^ Students may enroll in EGR 401-Adv. Product Design (Winter), EGR 403-Medical Device Design (Winter), or EGR 405-Material Failure (Spring/Summer)
- ~ [Course is only offered at Cornerstone University](#)
- ! LIB 310 fulfills an Issues requirement.
- = Not required, strongly encouraged for student success.

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 Foundations 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.