

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

(2019-20 Catalog) (MTH 122 Placement - 5 Year Program)

Minor: _____

Student Name: _____

Student ID#: G _____

Year	Semester	Course	Credits	Grade	Semester Completed		
1st Year	1st Semester: Fall	MTH 122 College Algebra	3	_____	_____		
		* WRT 150 Writ Strategies	4	_____	_____		
		= EGR 100 Intro to Engrg	1	_____	_____		
		GE - Arts	3	_____	_____		
		• GE-SBS	3	_____	_____		
2nd Year	2nd Semester: Winter	MTH 123 Trigonometry	3	_____	_____		
		* CHM 115 Chemistry I	4	_____	_____		
		GE - HP	3	_____	_____		
		@ GE - P & L (PHI 102 Ethics)	3	_____	_____		
		Semester: S/S	Credits	Grade	Semester Completed		
3rd Year	3rd Semester: Fall	* MTH 201 Calculus I	4	_____	_____		
		* EGR 106 Intro to Egr Design I	3	_____	_____		
		GE - LS	3	_____	_____		
		~ IDS 101 Inov & Prob Solving	2	_____	_____		
		Semester: S/S	Credits	Grade	Semester Completed		
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 226 MicroCtrl Pgm Appl	4	_____	_____		
		* EGR 209 Mech & Mach	4	_____	_____		
		* EGR 289 Engrg Co-op Prep	1	_____	_____		
6th Year	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	_____	_____		
		Semester: S/S	Credits	Grade	Semester Completed		
7th Year	7th Semester: Fall	EGR 301 Fund Prod Des	4	_____	_____		
		EGR 345 Dyn Sys Mod	4	_____	_____		
		EGR 367 Mfg Processes	4	_____	_____		
		~ MDA 112 Design Drawing I	3	_____	_____		
		Semester: S/S	Credits	Grade	Semester Completed		
8th Year	Semester: Winter	EGR 390 Engrg Co-op II (SWS)	3	_____	_____		
		LIB 323 Design Thinking	3	_____	_____		
		8th Semester: S/S	Credits	Grade	Semester Completed		
		9th Year	9th Semester: Winter	EGR 485 Sr Project I	1	_____	_____
				~ IDS 413 Thought & Design III	3	_____	_____
~ IDS 312 Human Innovation	3			_____	_____		
• GE - US	3			_____	_____		
GE - Issue	3			_____	_____		
10th Year	10th Semester: S/S	EGR 486 Sr Project II	2	_____	_____		
		% ECO 210/211 Economics	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.