

Study Plan for B.S.E., PRODUCT DESIGN & MANUFACTURING ENGINEERING Major & General Emphasis

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

Minor: _____

Student Name: _____

 Student ID#: G

1st Year	1st Semester: Fall _____						2nd Semester: Winter _____						Semester: S/S _____							
				Credits	Grade	Semester Completed				Credits	Grade	Semester Completed				Credits	Grade	Semester Completed		
	* ^ •	MTH	122	College Algebra	3	_____	_____	* CHM	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 - LS	_____	3	_____	_____		_____	_____	_____		
• GE-SBS		_____	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	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 - GP		_____	3	_____	_____	STA	220		Statistical Modeling	2	_____	_____	_____	_____		_____				
						EGR	220		Measure/Data Analysis	1	_____	_____	_____	_____	_____					
3rd Year	5th Semester: Fall _____						6th Semester: Winter _____						Semester: S/S _____							
				Credits	Grade	Semester Completed				Credits	Grade	Semester Completed				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	Mach Design I	4	_____	_____		_____	_____	_____		
		EGR	209	Mech & Mach	4	_____	_____		EGR	250	Mat Sci & Engrg	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 _____						Semester: Winter _____						8th Semester: S/S _____							
				Credits	Grade	Semester Completed				Credits	Grade	Semester Completed				Credits	Grade	Semester Completed		
	EGR	301	Fund Prod Des	4	_____	_____	EGR	390	Engrg Co-op II (SWS)	3	_____	_____	EGR	362	Thermo-Fluid Sys	4	_____	_____		
		345	Dyn Sys Mod	4	_____	_____		GE - Issue	_____	3	_____	_____		440	Prod'n Models	3	_____	_____		
		367	Mfg Processes	4	_____	_____								PDM	Elec	3/4	_____	_____		
GE - Issue		_____	3	_____	_____	@ GE - P & L (PHI 102 Ethics)		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	401	Adv Prod Design	4	_____	_____	EGR	486	Sr Project II	2	_____	_____		
								EGR	450	Mfg Controls	4	_____		_____	PDM	Elec	3/4	_____	_____	
								EGR	485	Sr Project I	1	_____		_____	GE - US	_____	3	_____	_____	
					PDM	Elec		_____	3/4	_____	_____									

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). Consider taking PHI 102 as an SWS
- % ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS Gen Ed 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**
- 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.