

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

(2018-19 Catalog) (MTH 123 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	123	Trigonometry	3	_____	_____	*	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 - Hist		_____	3	_____	_____	• GE-SBS		_____	3	_____	_____				_____	_____	_____				
GE - Arts		_____	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	202	Calculus II	4	_____	_____	*	MTH	203	Calculus III	4	_____	_____				_____	_____	_____		
		*	EGR	107	Intro to Egr Design II	3	_____	_____	*	STA	220	Engrg Statistics	2	_____	_____				_____	_____	_____		
		GE - P & L (PHI 102 Ethics)		3	_____	_____	*	EGR	220	Engrg Stats Lab	1	_____	_____				_____	_____	_____				
		GE - US		3	_____	_____	*	PHY	230	Physics I	5	_____	_____				_____	_____	_____				
						#	GE - GP	_____	3	_____	_____												
3rd Year	5th Semester: Fall _____						6th Semester: Winter _____						Semester: S/S _____										
				Credits	Grade	Semester Completed				Credits	Grade	Semester Completed				Credits	Grade	Semester Completed					
	+	*	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	Mach Design I	4	_____	_____				_____	_____	_____		
		*	EGR	226	MicroCtrl Pgm Appl	4	_____	_____	*	EGR	250	Mat Sci & Engrg	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 _____										
				Credits	Grade	Semester Completed				Credits	Grade	Semester Completed				Credits	Grade	Semester Completed					
		EGR	301	Fund Prod Des	4	_____	_____	EGR	390	Engrg Co-op II	3	_____	_____				EGR	362	Thermo-Fluid Sys	4	_____	_____	
		EGR	345	Dyn Sys Mod	4	_____	_____							EGR	440	Prod'n Models	3	_____	_____				
		EGR	367	Mfg Processes	4	_____	_____							EGR	441	Egr Econ	4	_____	_____				
		GE - Issue		3	_____	_____							% ECO	210/211	Economics	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	450	Mfg Controls	4	_____	_____				EGR	486	Sr Project II	2	_____	_____	
		GE - Issue		3	_____	_____	EGR	485	Sr Project I	1	_____	_____				\$	PDM	Elec	3/4	_____	_____		
							EGR	404	Polymer Science	3	_____	_____											
							PDM	Elec	3/4	_____	_____												
					GE - LS	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 WP 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.
- \$ **Electives (2 required)**
 EGR 413 Materials for Energy Storage
 EGR 445 Robotics Systems Engineering
 MGT 337 Supply Chain Management
 STA 314 Design of Experiments

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.