

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

Student Name: _____

(2019-20 Catalog) (MTH 110 Placement - 5 Year Program)

Minor: _____

Student ID#: G

Year	1st Semester: Fall _____				2nd Semester: Winter _____				Semester: S/S _____			
		Credits	Grade	Semester Completed		Credits	Grade	Semester Completed		Credits	Grade	Semester Completed
1st Year	MTH 110	Algebra	4	_____	MTH 124	Functions and Models	5	_____				
	* WRT 150	Writ Strategies	4	_____	* CHM 115	Chemistry I	4	_____				
	^ EGR 100	Intro to Engrg	1	_____	GE - LS		3	_____				
	GE - Arts		3	_____	• GE-SBS		3	_____				
	GE - HP		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 - P & L (PHI 102 Ethics)		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	3	_____	EGR 362	Thermo-Fluid Sys	4	_____
	EGR 345	Dyn Sys Mod	4	_____	GE - Issue		3	_____	EGR 440	Prod'n Models	3	_____
EGR 367	Mfg Processes	4	_____					EGR 441	Egr Econ	4	_____	
# GE-GP		3	_____					GE-US		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	_____
					EGR 485	Sr Project I	1	_____	§ PDM Elec		3/4	_____
					EGR 404	Polymer Science	4	_____				
				§ PDM Elec		3/4	_____					
				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). 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 Statistical Quality Methods OR STA 315 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.