

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

Student Name: \_\_\_\_\_

(2018-19 Catalog) (MTH 110 Placement - 5 Year Program) Minor: \_\_\_\_\_

Student ID#: G

Year	Semester	Credits	Grade	Semester Completed	Semester	Credits	Grade	Semester Completed	Semester	Credits	Grade	Semester Completed
1st Year	1st Semester: Fall				2nd Semester: Winter				Semester: S/S			
	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 - Hist	3	_____	_____								
2nd Year	3rd Semester: Fall				4th Semester: Winter				Semester: S/S			
	* 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 Engrg Statistics	2	_____	_____	_____	_____	_____	_____
				* EGR 220 Engrg Stats Lab	1	_____	_____	_____	_____	_____	_____	_____
3rd Year	5th Semester: Fall				6th Semester: Winter				Semester: S/S			
	* 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			
	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			
	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	_____	_____	PDM Elec	3/4	_____	_____	
				EGR 404 Polymer Science	3	_____	_____	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 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.

**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.