

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

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

(2019-20 Catalog) (MTH 123 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 123	Trigonometry	3	_____	_____				
	* WRT 150	Writ Strategies	4	_____	_____				
	^ EGR 100	Intro to Engrg	1	_____	_____				
	GE - HP	_____	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	_____	_____				
	* EGR 107	Intro to Egr Design II	3	_____	_____				
	@ GE - P & L (PHI 102 Ethics)	_____	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	_____	_____				
	* EGR 209	Mech & Mach	4	_____	_____				
	* EGR 226	MicroCtrl Pgm Appl	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 345	Dyn Sys Mod	4	_____	_____				
	EGR 367	Mfg Processes	4	_____	_____				
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	_____	_____				
	GE - Issue	_____	3	_____	_____				
	EGR 450	Mfg Controls	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.
- \$ **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.