

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

Student Name: _____

(2019-20 Catalog) (MTH 124 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 124	Functions & Models	5	_____	_____				
	* WRT 150	Writ Strategies	4	_____	_____				
	^ EGR 100	Intro to Engrg	1	_____	_____				
	GE - HP	_____	3	_____	_____				
	^ EGR 180	Intro Engrg Prob Solv	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	_____	_____					
	• GE-SBS	_____	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	_____	_____				
	* 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 345	Dyn Sys Mod	4	_____	_____				
	EGR 367	Mfg Processes	4	_____	_____				
	GE - Issue	_____	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	_____	_____				
	GE - Issue	_____	3	_____	_____				
	EGR 450	Mfg Controls	4	_____	_____				
	EGR 485	Sr Project I	1	_____	_____				
	EGR 404	Polymer Science	4	_____	_____				
	\$ PDM Elec	_____	3/4	_____	_____				
	GE - LS	_____	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. 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 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.