

Study Plan for B.S.E., **PRODUCT DESIGN & MANUFACTURING ENGINEERING** Major & Robotics and Control 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	5	_____	_____	* MTH 201	4	_____	_____	_____	_____	_____	_____
	* WRT 150	4	_____	_____	* CHM 115	4	_____	_____	_____	_____	_____	_____
	^ EGR 100	1	_____	_____	* EGR 106	3	_____	_____	_____	_____	_____	_____
	GE - HP	3	_____	_____	GE - Arts	3	_____	_____	_____	_____	_____	_____
	^ EGR 180	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	4	_____	_____	* MTH 203	4	_____	_____	_____	_____	_____	_____
	* EGR 107	3	_____	_____	* STA 220	2	_____	_____	_____	_____	_____	_____
	@ GE - P & L (PHI 102 Ethics)	3	_____	_____	* EGR 220	1	_____	_____	_____	_____	_____	_____
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	4/5	_____	_____	* MTH 302	4	_____	_____	EGR 290	3	_____	_____
	* EGR 209	4	_____	_____	* EGR 309	4	_____	_____	Engrg Co-op I	_____	_____	_____
	* EGR 226	4	_____	_____	* EGR 250	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	4	_____	_____	EGR 390	3	_____	_____	EGR 362	4	_____	_____
	EGR 345	4	_____	_____	GE - LS	3	_____	_____	EGR 440	3	_____	_____
	EGR 367	4	_____	_____					EGR 445	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	3	_____	_____	EGR 450	4	_____	_____	EGR 486	2	_____	_____
	GE - Issue	3	_____	_____	EGR 485	1	_____	_____	EGR 409	4	_____	_____
					\$ 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 312 Dynamics
 EGR 352 Kinematics and Dynamics of Machinery
 EGR 405 Materials Failure Analysis
 EGR 441 Engineering Economics, Quality Control and Manufacturing Operations

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.