

Study Plan for B.S.E., PRODUCT DESIGN & MANUFACTURING ENGINEERING Major & Robotics and Control 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	_____	_____	_____	_____	_____	_____
	* WRT 150	Writ Strategies	4	_____	_____	_____	_____	_____	_____
	^ EGR 100	Intro to Engrg	1	_____	_____	_____	_____	_____	_____
	GE - Arts	_____	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	_____	_____	_____	_____	_____	_____
	* EGR 106	Intro to Egr Design I	3	_____	_____	_____	_____	_____	_____
	% ECO 210/211	Economics	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
	* MTH 203	Calculus III	4	_____	_____	_____	EGR 290	Engrg Co-op I	3
	+ * 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 362	Thermo-Fluid Sys	4
	EGR 345	Dyn Sys Mod	4	_____	_____	_____	EGR 440	Prod'n Models	3
EGR 367	Mfg Processes	4	_____	_____	_____	EGR 445	Robotics Sys	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 486	Sr Project II	2
	_____	_____	_____	EGR 450	Mfg Controls	4	_____	_____	_____
	_____	_____	_____	EGR 485	Sr Project I	1	_____	_____	_____
_____	_____	_____	§ PDM Elec	_____	3/4	_____	_____	_____	
_____	_____	_____	§ 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 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.