

Study Plan for B.S.E., PRODUCT DESIGN & MANUFACTURING ENGINEERING Major & Robotics and Control Emphasis
(2018-19 Catalog) (MTH 122 Placement - 5 Year Program)
Minor: _____

Student Name: _____

Student ID#: G

1st Year	1st Semester: Fall_____						Credits	Grade	Semester Completed	2nd Semester: Winter _____						Credits	Grade	Semester Completed	Semester: S/S _____						Credits	Grade	Semester Completed				
	MTH	122	College Algebra	3	_____	_____				MTH	123	Trigonometry	3	_____	_____				_____	_____	_____	_____									
	* WRT	150	Writ Strategies	4	_____	_____				* CHM	115	Chemistry I	4	_____	_____				_____	_____	_____	_____									
	^ EGR	100	Intro to Engrg	1	_____	_____				GE - Hist	_____	_____	3	_____	_____				_____	_____	_____	_____									
	GE - Arts	_____	_____	3	_____	_____				GE - LS	_____	_____	3	_____	_____				_____	_____	_____	_____									
	• GE-SBS	_____	_____	3	_____	_____																									
2nd Year	3rd Semester: Fall_____						Credits	Grade	Semester Completed	4th Semester: Winter _____						Credits	Grade	Semester Completed	Semester: S/S _____						Credits	Grade	Semester Completed				
	* 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 - GP	_____	_____	3	_____	_____				* STA	220	Engrg Statistics	2	_____	_____				_____	_____	_____	_____									
										* EGR	220	Engrg Stats Lab	1	_____	_____				_____	_____	_____	_____									
3rd Year	5th Semester: Fall_____						Credits	Grade	Semester Completed	6th Semester: Winter _____						Credits	Grade	Semester Completed	Semester: S/S _____						Credits	Grade	Semester Completed				
	* MTH	203	Calculus III	4	_____	_____				* MTH	302	Lin Alg & DEQ	4	_____	_____				_____	_____	_____	_____									
	+ * 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_____						Credits	Grade	Semester Completed	Semester: Winter _____						Credits	Grade	Semester Completed	8th Semester: S/S _____						Credits	Grade	Semester Completed				
	EGR	301	Fund Prod Des	4	_____	_____				EGR	390	Engrg Co-op II	3	_____	_____				_____	_____	_____	_____									
	EGR	345	Dyn Sys Mod	4	_____	_____				GE - Issue	_____	_____	3	_____	_____				_____	_____	_____	_____									
	EGR	367	Mfg Processes	4	_____	_____																									
	GE - Issue	_____	_____	3	_____	_____																									
5th Year	Semester: Fall_____						Credits	Grade	Semester Completed	9th Semester: Winter _____						Credits	Grade	Semester Completed	10th Semester: S/S _____						Credits	Grade	Semester Completed				
	EGR	490	Engrg Co-op III	3	_____	_____				EGR	450	Mfg Controls	4	_____	_____				_____	_____	_____	_____									
										EGR	485	Sr Project I	1	_____	_____				_____	_____	_____	_____									
	\$ PDM	Elec	_____	3/4	_____	_____				\$ PDM	Elec	_____	3/4	_____	_____				_____	_____	_____	_____									
										GE - US	_____	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.
- \$ **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.