

Study Plan for B.S.E., *PRODUCT DESIGN & MANUFACTURING ENGINEERING* Major & Robotics and Control Emphasis

(2018-19 Catalog)

(MTH 201 Placement - 5 Year Program)

Minor: _____

Student Name: _____

 Student ID#: G

1st Year	1st Semester: Fall _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	2nd Semester: Winter _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	Semester: S/S _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>
	* MTH	201	Calculus I	4	_____	_____	* MTH	202	Calculus II	4	_____	_____	_____	_____	_____	_____	_____	_____
	* WRT	150	Writ Strategies	4	_____	_____	* CHM	115	Chemistry I	4	_____	_____	_____	_____	_____	_____	_____	_____
	* EGR	106	Intro to Egr Design I	3	_____	_____	* EGR	107	Intro to Egr Design II	3	_____	_____	_____	_____	_____	_____	_____	_____
	GE - Hist	_____	_____	3	_____	_____	GE - Arts	_____	_____	3	_____	_____						
2nd Year	3rd Semester: Fall _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	4th Semester: Winter _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	Semester: S/S _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>
	* MTH	203	Calculus III	4	_____	_____	* MTH	302	Lin Alg & DEQ	4	_____	_____	_____	_____	_____	_____	_____	_____
	* STA	220	Engrg Statistics	2	_____	_____	% ECO	210/211	Economics	3	_____	_____	_____	_____	_____	_____	_____	_____
	* EGR	220	Engrg Stats Lab	1	_____	_____	* PHY	230	Physics I	5	_____	_____	_____	_____	_____	_____	_____	_____
	• GE-SBS	_____	_____	3	_____	_____	# GE - GP	_____	_____	3	_____	_____						
	@ GE - P & L (PHI 102 Ethics)	_____	_____	3	_____	_____												
3rd Year	5th Semester: Fall _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	6th Semester: Winter _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	Semester: S/S _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>
	+ * PHY	234/1	Physics II	4/5	_____	_____	* EGR	309	Mach Design I	4	_____	_____	EGR 290	Engrg Co-op I	3	_____	_____	_____
	* EGR	226	MicroCtrl Pgm Appl	4	_____	_____	* EGR	250	Mat Sci & Engrg	4	_____	_____						
	* EGR	209	Mech & Mach	4	_____	_____	* EGR	214	Circuit Analysis I	4	_____	_____						
	* EGR	289	Engrg Co-op Prep	1	_____	_____	GE - LS	_____	_____	3	_____	_____						
4th Year	7th Semester: Fall _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	Semester: Winter _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	8th Semester: S/S _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>
	EGR	301	Fund Prod Des	4	_____	_____	EGR 390	Engrg Co-op II	3	_____	_____	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 - Issue	_____	_____	3	_____	_____						GE - Issue	_____	3	_____	_____	_____	_____
5th Year	Semester: Fall _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	9th Semester: Winter _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	10th Semester: S/S _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>
	EGR 490	Engrg Co-op III	3	_____	_____	_____	EGR 450	Mfg Controls	4	_____	_____	EGR 486	Sr Project II	2	_____	_____	_____	_____
							EGR 485	Sr Project I	1	_____	_____	EGR 409	Mach Design II	4	_____	_____	_____	_____
							\$ 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
- 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.