

Study Plan for B.S.E., PRODUCT DESIGN & MANUFACTURING ENGINEERING Major & Robotics and Control Emphasis
(2018-19 Catalog) (MTH 201 Placement - 4 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 201 Calculus I						4	_____	_____	* MTH 202 Calculus II						4	_____	_____	GE - LS _____						3	_____	_____
	* WRT 150 Writ Strategies						4	_____	_____	* PHY 230 Physics I						5	_____	_____	_____						_____	_____	_____
	* EGR 106 Intro to Egr Design I						3	_____	_____	* EGR 107 Intro to Egr Design I						3	_____	_____	_____						_____	_____	_____
	* CHM 115 Chemistry I						4	_____	_____	* STA 220 Engrg Statistics						2	_____	_____	_____						_____	_____	_____
									* EGR 220 Engrg Stats Lab						1	_____	_____										
2nd Year	3rd Semester: Fall_____						Credits	Grade	Semester Completed	4th Semester: Winter _____						Credits	Grade	Semester Completed	Semester: S/S _____						Credits	Grade	Semester Completed
	* MTH 203 Calculus III						4	_____	_____	* MTH 302 Lin Alg & DEQ						4	_____	_____	EGR 290 Engrg Co-op I						3	_____	_____
	+ * PHY 234/1 Physics II						4/5	_____	_____	* EGR 309 Mach Design I						4	_____	_____	GE - Arts _____						3	_____	_____
	* EGR 226 MicroCtrl Pgm Appl						4	_____	_____	* EGR 250 Mat Sci & Engrg						4	_____	_____									
	* EGR 209 Mech & Mach						4	_____	_____	* EGR 214 Circuit Analysis I						4	_____	_____									
3rd Year	5th Semester: Fall_____						Credits	Grade	Semester Completed	Semester: Winter _____						Credits	Grade	Semester Completed	6th Semester: S/S _____						Credits	Grade	Semester Completed
	EGR 301 Fund Prod Des						4	_____	_____	EGR 390 Engrg Co-op II						3	_____	_____	EGR 362 Thermo-Fluid S						4	_____	_____
	EGR 345 Dyn Sys Mod						4	_____	_____	GE - Issue _____						3	_____	_____	EGR 440 Prod'n Models						3	_____	_____
	EGR 367 Mfg Processes						4	_____	_____										EGR 445 Robotics Sys						4	_____	_____
	• GE-SBS _____						3	_____	_____										% ECO 210/211 Economics						3	_____	_____
4th Year	Semester: Fall_____						Credits	Grade	Semester Completed	7th Semester: Winter _____						Credits	Grade	Semester Completed	8th Semester: S/S _____						Credits	Grade	Semester Completed
	EGR 490 Engrg Co-op III						3	_____	_____	EGR 450 Mfg Controls						4	_____	_____	EGR 486 Sr Project II						2	_____	_____
	GE - Issue _____						3	_____	_____	EGR 485 Sr Project I						1	_____	_____	EGR 409 Mach Design II						4	_____	_____
										\$ PDM Elec _____						3/4	_____	_____	\$ PDM Elec _____						3/4	_____	_____
										@ GE - P & L (PHI 102 Ethics)						3	_____	_____	GE - Hist _____						3	_____	_____
									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.