

Study Plan for B.S.E., PRODUCT DESIGN & MANUFACTURING ENGINEERING Major & Design Emphasis

(2018-19 Catalog) (MTH 123 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 123	Trigonometry	3	_____	_____		* MTH 201	Calculus I	4	_____	_____		_____	_____	_____	_____	_____	_____
	* WRT 150	Writ Strategies	4	_____	_____		* CHM 115	Chemistry I	4	_____	_____		_____	_____	_____	_____	_____	_____
	^ EGR 100	Intro to Engrg	1	_____	_____		* EGR 106	Intro to Egr Design I	3	_____	_____		_____	_____	_____	_____	_____	_____
	GE - Hist	_____	3	_____	_____		• GE-SBS	_____	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 202	Calculus II	4	_____	_____		* MTH 203	Calculus III	4	_____	_____		_____	_____	_____	_____	_____	_____
	* EGR 107	Intro to Egr Design II	3	_____	_____		* STA 220	Engrg Statistics	2	_____	_____		_____	_____	_____	_____	_____	_____
	@ GE - P & L (PHI 102 Ethics)	_____	3	_____	_____		* EGR 220	Engrg Stats Lab	1	_____	_____		_____	_____	_____	_____	_____	_____
	GE - US	_____	3	_____	_____		* PHY 230	Physics I	5	_____	_____		_____	_____	_____	_____	_____	_____
							# GE - GP	_____	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	_____	_____		* MTH 302	Lin Alg & DEQ	4	_____	_____		EGR 290	Engrg Co-op I	3	_____	_____	_____
	* EGR 209	Mech & Mach	4	_____	_____		* EGR 309	Mach Design I	4	_____	_____		_____	_____	_____	_____	_____	_____
	* EGR 226	MicroCtrl Pgm Appl	4	_____	_____		* EGR 250	Mat Sci & Engrg	4	_____	_____							
	* EGR 289	Engrg Co-op Prep	1	_____	_____		* EGR 214	Circuit Analysis I	4	_____	_____							
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 (SWS)	3	_____	_____		EGR 362	Thermo-Fluid Sys	4	_____	_____	_____
	EGR 345	Dyn Sys Mod	4	_____	_____		_____	_____	_____	_____	_____		EGR 329	Intro to FEA	3	_____	_____	_____
	EGR 367	Mfg Processes	4	_____	_____								EGR 405	Mat Analysis	3	_____	_____	_____
	GE - Issue	_____	3	_____	_____								% ECO 210/211	Economics	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 401	Adv Prod Design	4	_____	_____		EGR 486	Sr Project II	2	_____	_____	_____
	GE - Issue	_____	3	_____	_____		EGR 485	Sr Project I	1	_____	_____		EGR 440	Prod'n Models	3	_____	_____	_____
							\$ PDM Elec	_____	3/4	_____	_____		GE - LS	_____	3	_____	_____	_____
							\$ 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 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 (Choose 2)**
 EGR 311 Intermediate CAD/CAM
 EGR 326 Embedded System Design
 EGR 403 Medical Device Design
 EGR 404 Polymer Science and Processing
 EGR 409 Machine Design II
 EGR 441 Engineering Economics, Quality Control, and Manufacturing Operations
 EGR 453 Biomedical Materials
 STA 315 Design of Experiments

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.