

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

(2019-20 Catalog)

(MTH 124 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	124	Functions & Models	5	_____	_____	* 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 - HP	_____	_____	3	_____	_____	GE - Arts	_____	_____	3	_____	_____	_____	_____	_____	_____	_____	_____
^ EGR	180	Intro Engrg Prob Solv	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	202	Calculus II	4	_____	_____	* MTH	203	Calculus III	4	_____	_____	_____	_____	_____	_____	_____	_____
	* EGR	107	Intro to Egr Design II	3	_____	_____	* STA	220	Statistical Modeling	2	_____	_____	_____	_____	_____	_____	_____	_____
	@ GE - P & L (PHI 102 Ethics)	_____	_____	3	_____	_____	* EGR	220	Measure/Data Analysis	1	_____	_____	_____	_____	_____	_____	_____	_____
	• GE-SBS	_____	_____	3	_____	_____	* PHY	230	Physics I	5	_____	_____	_____	_____	_____	_____	_____	_____
# GE - GP	_____	_____	3	_____	_____													
3rd Year	5th Semester: Fall _____			Credits	Grade	Semester Completed	6th Semester: Winter _____			Credits	Grade	Semester Completed	Semester: S/S _____			Credits	Grade	Semester Completed
	+ * 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 _____			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 (SWS)	3	_____	_____	EGR	362	Thermo-Fluid Sys	4	_____	_____
	EGR	345	Dyn Sys Mod	4	_____	_____							EGR	440	Prod'n Models	3	_____	_____
	EGR	367	Mfg Processes	4	_____	_____							PDM	Elec	_____	3/4	_____	_____
	GE - Issue	_____	_____	3	_____	_____							% ECO	210/211 Economics	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	401	Adv Prod Design	4	_____	_____	EGR	486	Sr Project II	2	_____	_____
	GE - Issue	_____	_____	3	_____	_____	EGR	450	Mfg Controls	4	_____	_____	PDM	Elec	_____	3/4	_____	_____
							EGR	485	Sr Project I	1	_____	_____	GE - LS	_____	3	_____	_____	_____
							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. 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 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.

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.