

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

Student Name: _____

(2019-20 Catalog) (MTH 201 Placement with Honors Alliance and Conflict - 4 Year Program)

Student ID#: _____

G

Minor: _____

	1st Semester: Fall _____	Credits	Grade	Semester Completed	2nd Semester: Winter _____	Credits	Grade	Semester Completed	Semester: S/S _____	Credits	Grade	Semester Completed
1st Year	* MTH 201 Calculus I	4	_____	_____	* MTH 202 Calculus II	4	_____	_____	* EGR 107 Intro to Egr Design II	3	_____	_____
	* CHM 115 Chemistry I	4	_____	_____	* EGR 106 Intro to Egr Design I	3	_____	_____	* MTH 203 Calculus III	4	_____	_____
	HNR 260	3	_____	_____	HNR 261	3	_____	_____	* PHY 230 Physics I	5	_____	_____
	HNR 201 Live, Learn, Lead	3	_____	_____	HNR 262	3	_____	_____				
2nd Year	3rd Semester: Fall _____	Credits	Grade	Semester Completed	4th 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	_____	_____
	* STA 220 Statistical Modeling	2	_____	_____	* EGR 309 Mach Design I	4	_____	_____	* EGR 214 Circuit Analysis I	4	_____	_____
	* EGR 220 Measure/Data Analys	1	_____	_____	* EGR 250 Mat. Sci. & Engrg	4	_____	_____				
	* EGR 209 Mech & Mach	4	_____	_____	* EGR 226 MicroCtrl Pgm Appl	4	_____	_____				
* EGR 289 Engrg Co-op Prep	1	_____	_____									
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 (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	_____	_____
								# HNR Jr. Sem _____	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 401 Adv Prod Design	4	_____	_____	& EGR 486 Sr Project II	2	_____	_____
	HNR LS _____	3	_____	_____	^ PDM Elec _____	3/4	_____	_____	EGR 440 Prod'n Models	3	_____	_____
					^ PDM Elec _____	3/4	_____	_____	\$ HNR US _____	3	_____	_____
				& EGR 485 Sr Project I	1	_____	_____	% ECO 210/211 Economics	3	_____	_____	

PCEC Student Services: (616)331-6025

- * Engineering Foundation course
- + Students may enroll in PHY 231 instead of PHY 234
- # The Jr. Seminar fulfills one Issue and one SWS requirement. HNR 312 will also fulfill US Diversity. Junior Seminars can be taken when students have >= 45 credits. Online seminars offered each semester.
- % ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS HNR requirement.
- \$ HNR US Diversity requirement can be met with a Jr. Seminar (HNR 312).
- & Completion of EGR 485 and 486 will fulfill the HNR 499 Senior Project requirement.
- ^ **Electives (Choose 2)**
 EGR 311 Intermediate CAD/CAM EGR 409 Machine Design II
 EGR 326 Embedded System Design EGR 441 Engineering Economics, Quality Control, and Manufacturing Operations
 EGR 403 Medical Device Design EGR 453 Biomedical Materials
 EGR 404 Polymer Science and Processing 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 in each Foundation course.**
- 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.

If students do not have Advanced Placement credit applicable to the engineering curriculum, e.g., Calculus, Physics, and/or Chemistry, it is strongly recommended that they consider a 5-year plan.