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

(2019-20 Catalog) (MTH 201 Placement with Honors Alliance and Conflict - 5 Year Program

(2019-20 Catalog)	(MTH 201 Placement with Honors Alliance and Conflict - 5 Year Prog
Minor:	

Student Name:				
Student ID#:	\overline{G}			

1st Year	* MTH 201 Calculus I 4	2nd Semester: Winter & Semester	Semester: S/S
2nd Year	* MTH 203 Calculus III 4 Completed * EGR 107 Intro to Egr Design I 3	# MTH 302 Lin Alg & DEQ 4 + * PHY 231 Physics II 5 8 ECO 210/211 Economics 3	Semester: S/S Semester Completed
3rd Year	* EGR 226 MicroCtrl Pgm Appl 4	6th Semester: Winter \$\frac{\pi}{\pi}\$ Grade Semester Completed * EGR 309 Mach Design I 4	Semester: S/S & Semester Completed EGR 290 Engrg Co-op I 3
4th Year	7th Semester: Fall \$\frac{8}{6}\$ Grade Semester Completed EGR 301 Fund Prod Des 4 EGR 345 Dyn Sys Mod 4 EGR 367 Mfg Processes 4	Semester: Winter & Semester Completed EGR 390 Engrg Co-op II (SWS) 3	8th Semester: S/S \$\frac{\frac{\pi}{\pi}}{\pi}\$ Grade Semester Completed EGR 362 Thermo-Fluid S! 4
5th Year	Semester: Fall Semester EGR 490 Engrg Co-op III 3 Semester Completed	9th Semester: Winter \$\frac{\xi}{\xi}\$ Grade Semester Completed EGR 401 Adv Prod Design 4	10th Semester: S/S \(\frac{\fir}{\frac{\frac{\frac{\frac{\frac{\frac{\frac{\finic}}{\frac{\frac{\frac{\frac{\frac{\fir\firce{\frac{\fir}}}}}{\

PCEC Student Services: (616)331-6025

- Engineering Foundation course
- + Engineering Physics II (PHY 234) is available in fall only.
- # The Jr. Seminar fulfills one Issues 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.