## Study Plan for B.S.E., PRODUCT DESIGN & MANUFACTURING ENGINEERING Major & Design Emphasis **Student Name:** GStudent ID#: (2019-20 Catalog) (MTH 201 Placement - 4 Year Program) Minor: Semester Semester Semester 2nd Semester: Winter 1st Semester: Fall\_ Grade Completed Grade Completed Semester: S/S \_\_\_\_ Completed \* MTH 201 Calculus I \* MTH 202 Calculus II \* WRT 150 Writ Strategies 230 Physics I \* PHY \* EGR 106 Intro to Egr Design I 3 \* EGR 107 Intro to Egr Design II 3 \* CHM 115 Chemistry I \* STA 220 Statistical Modeling 2 \* EGR 220 Measure/Data Analysis 1 Semester Semester Semester 3rd Semester: Fall Grade Completed 4th Semester: Winter \_\_\_\_ Grade Completed Semester: S/S \_\_\_\_ Grade Completed \* MTH 203 Calculus III \* MTH 302 Lin Alg & DEQ EGR 290 Engrg Co-op I 3 \* PHY 234/1 Physics II 309 Mach Design I \* EGR GE - Arts \* EGR 226 MicroCtrl Pgm Appl \* EGR 250 Mat Sci & Engrg \* EGR 209 Mech & Mach \* EGR 214 Circuit Analysis I \* EGR 289 Engrg Co-op Prep Semester Semester Semester 5th Semester: Fall Semester: Winter Grade Completed 6th Semester: S/S Grade Completed Completed Grade EGR 301 Fund Prod Des EGR 390 Engrg Co-op II (SWS) 3 EGR 362 Thermo-Fluid S 4 EGR 329 EGR 345 Dyn Sys Mod Intro to FEA EGR 367 Mfg Processes EGR 405 Mat Analysis % ECO 210/211 Economics GE-SBS # GE - GP

7th Semester: Winter \_\_\_\_

485 Sr Project I

PDM Elec \_\_\_\_\_

@ GE - P & L (PHI 102 Ethics)

\$ PDM Elec \_\_\_\_\_

EGR

401 Adv Prod Design

PCEC Student Services: (616)331-6025

Semester: Fall

GE - Issue

EGR 490 Engrg Co-op III

- \* 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.

Semester

Completed

Grade

3

- % ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS Gen Ed requirement.
- \$ Electives (Choose 2)

4th Year

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:**

EGR 486

EGR 440

GE - LS

GE - HP

GE - US

- A GPA of 2.7 or above in the Engineering Foundation courses

8th Semester: S/S \_\_\_\_

- Completion of each course in the Engineering Foundation with a grade of C (2.0) or above, with no more than one repeat

Sr Project II

Prod'n Models

Semester

Completed

- Completion of preparation for placement in the cooperative engineering education, EGR 289

## **Recommendation:**

Semester

Completed

Grade

3/4

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.