Study Plan for B.S.E., PRODUCT DESIGN & MANUFACTURING ENGINEERING Major & Design Emphasis **Student Name:** GStudent ID#: (2019-20 Catalog) (MTH 124 Placement - 5 Year Program) Minor: Semester Semester Semester 1st Semester: Fall____ Grade Completed 2nd Semester: Winter ____ Grade Completed Semester: S/S ____ Completed Grade MTH 124 Functions & Models 5 MTH 201 Calculus I WRT 150 Writ Strategies CHM 115 Chemistry I ^ EGR 100 Intro to Engrg EGR 106 Intro to Egr Design I 3 GE - HP GE - Arts ^ EGR 180 Intro Engrg Prob Solv 3 Semester Semester Semester 3rd Semester: Fall Completed 4th Semester: Winter Completed Semester: S/S ____ Completed * MTH 202 Calculus II MTH 203 Calculus III STA 220 Statistical Modeling EGR 107 Intro to Egr Design II 3 220 Measure/Data Analysis @ GE - P & L (PHI 102 Ethics) EGR GE-SBS PHY 230 Physics I # GE - GP 6th Semester: Winter ___ 5th Semester: Fall____ Grade Completed Semester: S/S ____ Grade Completed Grade Completed + * PHY 234/1 Physics II MTH 302 Lin Alg & DEQ EGR 290 Engrg Co-op I 3 * EGR 209 Mech & Mach EGR 309 Mach Design I * EGR 226 MicroCtrl Pgm Appl 4 EGR 250 Mat Sci & Engrg * EGR 289 Engrg Co-op Prep EGR 214 Circuit Analysis I Semester Semester Semester Semester: Winter ____ 7th Semester: Fall Grade Completed Grade Completed 8th Semester: S/S Grade Completed EGR 301 Fund Prod Des EGR 362 EGR 390 Engrg Co-op II (SWS) 3 Thermo-Fluid Sys 4 EGR 345 Dyn Sys Mod EGR 329 Intro to FEA EGR 367 Mfg Processes EGR 405 Mat Analysis % ECO 210/211 Economics GE - Issue _____ Semester Semester Semester Semester: Fall____ Grade Completed 9th Semester: Winter ____ Grade Completed 10th Semester: S/S _ Grade Completed

EGR 401 Adv Prod Design

3/4

3/4

EGR 485 Sr Project I

PDM Elec _____

PDM Elec ___

PCEC	Student Services:	(616)331-	602

EGR 490 Engrg Co-op III

GE - Issue _____

- 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.

3

- \$ 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:

EGR 486

EGR 440

GE - LS

GE - US

- 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

Sr Project II

Prod'n Models

- 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.