Study Plan for B.S.E., PRODUCT DESIGN & MANUFACTURING ENGINEERING Major & Design Emphasis **Student Name:** Student ID#: G(2018-19 Catalog) (MTH 110 Placement - 5 Year Program) Semester Semester Semester 1st Semester: Fall Completed 2nd Semester: Winter Completed Semester: S/S Completed Grade Grade Grade MTH 110 Algebra MTH 124 Functions and Models 5 * WRT 150 Writ Strategies * CHM 115 Chemistry I ^ EGR 100 Intro to Engrg GE - LS GE-SBS GE - Arts GE - Hist Semester Semester Semester 3rd Semester: Fall____ Completed 4th Semester: Winter _ Completed Semester: S/S ____ Completed Grade * MTH 201 Calculus I * MTH 202 Calculus II EGR 106 Intro to Egr Design I 3 * EGR 107 Intro to Egr Design II 3 % ECO 210/211 Economics * PHY 230 Physics I @ GE - P & L (PHI 102 Ethics) * STA 220 Engrg Statistics * EGR 220 Engrg Stats Lab Semester Semester Semester Grade Completed Semester: S/S _ Grade Completed 5th Semester: Fall 6th Semester: Winter _ Grade Completed * MTH 203 Calculus III * MTH 302 Lin Alg & DEQ EGR 290 Engrg Co-op I 3 __ + * PHY 234/1 Physics II * EGR 309 Mach Design I * EGR 209 Mech & Mach * EGR 250 Mat Sci & Engrg * EGR 226 MicroCtrl Pgm Appl * EGR 214 Circuit Analysis I * EGR 289 Engrg Co-op Prep Semester Semester Semester Semester: Winter ____ 8th Semester: S/S ____ 7th Semester: Fall____ Grade Completed Grade Completed Grade Completed EGR 301 Fund Prod Des EGR 390 Engrg Co-op II (SWS) 3 Thermo-Fluid Sys 4 EGR 345 Dyn Sys Mod EGR 329 Intro to FEA

9th Semester: Winter ___

EGR 485 Sr Project I

\$ PDM Elec

\$ PDM Elec

EGR 401 Adv Prod Design

Semester: Fall____

EGR 367 Mfg Processes

EGR 490 Engrg Co-op III

* Engineering Foundation course

GE - GP___

5th Year

- + Students may enroll in PHY 231 instead of PHY 234
- Not required, but strongly recommended for success
- 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

Grade Completed

- % ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS Gen Ed requirement.
- \$ 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 405

EGR 486

EGR 440

GE - Issue

GE - Issue

10th Semester: S/S _

GE-US

Semester

Grade Completed

3/4

3/4

- 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**

Mat Analysis

Sr Project II

Prod'n Models 3

Semester

Grade Completed

- 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.