Study Plan for B.S.E., PRODUCT DESIGN & MANUFACTURING ENGINEERING Major & Robotics and Control Emphasis **Student Name:** (2018-19 Catalog) Student ID#: (MTH 110 Placement - 5 Year Program) Minor: Semester Semester Semester Semester: S/S 1st Semester: Fall Grade Completed 2nd Semester: Winter Grade Completed Grade Completed MTH 110 Algebra MTH 124 Functions and Model 5 * WRT 150 Writ Strategies * CHM 115 Chemistry I ^ EGR 100 Intro to Engrg GE - LS GE - Arts GE-SBS GE - Hist Semester Semester Semester Completed 3rd Semester: Fall Completed 4th Semester: Winter Completed Semester: S/S Grade 2nd Year * MTH 201 Calculus I * MTH 202 Calculus II * EGR 106 Intro to Egr Design I 107 * EGR Intro to Egr Design II 3 % ECO 210/211 Economics * PHY 230 Physics I @ GE - P & L (PHI 102 Ethics) * STA 220 **Engrg Statistics** 220 Engrg Stats Lab * EGR Semester Semester Semester 5th Semester: Fall Completed 6th Semester: Winter Grade Completed Semester: S/S Completed Grade Grade * MTH 203 Calculus III * MTH 302 Lin Alg & DEQ EGR 290 Engrg Co-op I * PHY 234/1 Physics II * EGR 309 Mach Design I * EGR 209 Mech & Mach * EGR 250 Mat Sci & Engrg * EGR 226 MicroCtrl Pgm Appl 214 Circuit Analysis I * EGR 289 Engrg Co-op Prep Semester Semester Semester 7th Semester: Fall Completed Semester: Winter Completed 8th Semester: S/S Completed Grade Grade EGR 301 Fund Prod Des EGR 390 Engrg Co-op II Thermo-Fluid Svs 4 EGR 345 Dyn Sys Mod GE - Issue _____ EGR 440 Prod'n Models EGR 367 Mfg Processes EGR 445 Robotics Sys # GE - GP _____ GE-US Semester Semester Semester Semester: Fall 9th Semester: Winter 10th Semester: S/S Grade Completed Grade Completed Grade Completed

450 Mfg Controls

485 Sr Project I

\$ PDM Elec _____

\$ PDM Elec _____

EGR

GE - Issue

PCEC Student Services: (616)331-6025

EGR 490 Engrg Co-op III

Engineering Foundation course

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

EGR 312 Dynamics

EGR 352 Kinematics and Dynamics of Machinery

EGR 405 Materials Failure Analysis

EGR 441 Engineering Economics, Quality Control and Manufacturing Operations

Secondary Admissions Criteria:

EGR 486

EGR 409

- 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

Mach Design II

- 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.

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