Study Plan for B.S.E., PRODUCT DESIGN & MANUFACTURING ENGINEERING Major & Robotics and Control Emphasis **Student Name:** Student ID#: G(2019-20 Catalog) (MTH 124 Placement - 5 Year Program) Minor: Semester Semester Semester Semester: S/S 1st Semester: Fall_ Grade Completed 2nd Semester: Winter ____ Grade Completed Grade Completed 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 ^ EGR 180 Intro Engrg Prob Solv 3 Semester Semester Semester 3rd Semester: Fall Grade Completed 4th Semester: Winter Grade Completed Semester: S/S Completed * MTH 202 Calculus II MTH 203 Calculus III * EGR 107 Intro to Egr Design II 3 * STA 220 Statistical Modeling 2 @ GE - P & L (PHI 102 Ethics) * EGR 220 Measure/Data Analysis 1 GE-SBS PHY 230 Physics I # GE - GP Semester Semester Semester Grade Completed Grade Completed Grade Completed 5th Semester: Fall 6th Semester: Winter Semester: S/S * PHY 234/1 Physics II 3rd Year MTH 302 Lin Alg & DEQ EGR 290 Engrg Co-op I * EGR 209 Mech & Mach 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 7th Semester: Fall Semester: Winter 8th Semester: S/S ____ Grade Completed Completed Grade Completed Year EGR 301 Fund Prod Des EGR 390 Engrg Co-op II EGR 362 Thermo-Fluid Sys 4 EGR 345 Dyn Sys Mod EGR 440 Prod'n Models EGR 367 Mfg Processes EGR 445 Robotics Sys GE - Issue _____ % ECO 210/211 Economics Semester Semester Semester Semester: Fall____ 9th Semester: Winter _ 10th Semester: S/S Grade Completed Grade Completed Grade Completed EGR 450 Mfg Controls EGR 486 EGR 490 Engrg Co-op III Sr Project II 5th Year EGR 485 Sr Project I EGR 409 Mach Design II 4 GE - Issue PDM Elec PDM Elec _____ 3/4

GE - US

PCEC Student Services: (616)331-6025

- 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 <u>either</u> EGR 100 <u>or</u> 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 GP 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:

- 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
- 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.