(2019-20 Catalog) (MTH 123 Placement	- 5 Year Program)	Minor:		Student ID#: G		
Ist Semester: Fall MTH 123 Trigonometry * WRT 150 Writ Strategies ^ EGR 100 Intro to Engrg GE - HP	Semester Grade Completed 3	2nd Semester: Winter * MTH 201 Calculus I * CHM 115 Chemistry I * EGR 106 Intro to Egr Design I • GE-SBS	Semester Grade Completed 4	Semester: S/S	Signal Grade	Semester Complete
3rd Semester: Fall * MTH 202 Calculus II * EGR 107 Intro to Egr Design II @ GE - P & L (PHI 102 Ethics) GE - US	step Semester Grade Completed 4	4th Semester: Winter	Semester Grade Completed 4	Semester: S/S	Grade	Semester Complete
* * PHY 234/1 Physics II * EGR 209 Mech & Mach * EGR 226 MicroCtrl Pgm Appl * EGR 289 Engrg Co-op Prep	Semester Grade Completed 4/5	6th Semester: Winter * MTH 302 Lin Alg & DEQ * EGR 309 Mach Design I * EGR 250 Mat Sci & Engrg * EGR 214 Circuit Analysis I	Semester Grade Completed 4		Grade	Semester Complete
7th Semester: Fall EGR 301 Fund Prod Des EGR 345 Dyn Sys Mod EGR 367 Mfg Processes GE - Issue	Semester Grade Completed 4	Semester: Winter EGR 390 Engrg Co-op II (SWS)	Semester Grade Completed 3	8th Semester: S/SEGR 362Thermo-Fluid SysEGR 329Intro to FEAEGR 405Mat Analysis% ECO 210/211 Economics	4 3	Semester Complete
Semester: Fall EGR 490 Engrg Co-op III GE - Issue	Semester Grade Completed 3 3	9th Semester: Winter EGR 401 Adv Prod Design EGR 485 Sr Project I \$ PDM Elec	Semester Grade Completed 4	10th Semester: S/S EGR 486 Sr Project II EGR 440 Prod'n Models GE - LS	Stress Grade 2	

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.
- 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

Study Plan for B.S.E., <u>PRODUCT DESIGN & MANUFACTURING ENGINEERING</u> Major & Design Emphasis

- % 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:

Student Name:

- 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.