Study Plan for B.S.E., <u>PRODUCT DESIGN & MANUFACTURING ENGINEERING</u> Major & Mfg Sys Emphasis Student Name:						_
(2019-20 Catalog) (MTH 122 Placemen	at - 5 Year Program)	Minor:		Student ID#: <u>G</u>		_
Ist Semester: Fall MTH 122 College Algebra * WRT 150 Writ Strategies ^ EGR 100 Intro to Engrg GE - Arts	Semester Grade Completed 3	2nd Semester: Winter MTH 123 Trigonometry * CHM 115 GE - HP	Semester Grade Completed 3	Semester: S/S	si 	Semester Completed
3rd Semester: Fall * MTH 201 Calculus I * EGR 106 Intro to Egr Design I % ECO 210/211 Economics # GE - GP	Semester Grade Completed 4	4th Semester: Winter	Semester Semester Grade Completed 4	Semester: S/S	Grade	Semester Completed
<pre></pre>	Semester Grade Completed 4	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	Semester: S/S EGR 290 Engrg Co-op I	Grade 3	Semester Completed
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 GE - Issue	Semester Grade Completed 3 3	8th Semester: S/S EGR 362 Thermo-Fluid Sys EGR 440 Prod'n Models EGR 441 Egr Econ @ GE - P & L (PHI 102 Ethics)	3	Semester Completed
Semester: Fall EGR 490 Engrg Co-op III	Semester S Grade Completed 3	9th Semester: Winter EGR 450 Mfg Controls EGR 485 Sr Project I EGR 404 Polymer Science \$ PDM Elec	Semester Semester 4	10th Semester: S/S EGR 486 Sr Project II \$ PDM Elec	Grade 2 3/4	Semester Completed

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 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.

\$ <u>Electives (2 required)</u>

EGR 413 Materials for Energy Storage

EGR 445 Robotics Systems Engineering

MGT 337 Supply Chain Management

STA 314 Statistical Quality Methods OR STA 315 Design of Experiments

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 $\mathbf{289}$

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.