## Study Plan for B.S.E., INTERDISCIPLINARY ENGINEERING & Data Science emphasis

(2019-20 Catalog) (MTH 201 Placement - 4 Year Program		am)	Minor:				Student ID#: $G$				
* MTH 201 * WRT 150 * EGR 106 * CHM 115	Calculus I Writ Strategies Intro to Egr Design I	4	Semester Completed	* MTH 202 Calculus II  * PHY 230 Physics I  * EGR 107 Intro to Egr Design II  * STA 220 Statistical Modeling  * EGR 220 Measure/Data Analysis	5 3 2 1		Semester Completed	Semester: S/S	S Credits	Grade	Semester Completed
<b>5</b> + * PHY 234/	Calculus III	4 4/5 4	Semester Completed	* MTH 302 Lin Alg & DEQ  * EGR 309 Machine Design I  * EGR 250 Material Sci & Egr  * EGR 214 Circuit Analysis I	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		Semester Completed	Semester: S/S EGR 290 Engrg Co-op I STA 216 Inter Applied Stats	S Credits	Grade	Semester Completed
EGR 367 ! STA 321	Dyn Sys Mod Mfg Processes App Regres Anlys 2 Comp Sci	4	Semester Completed	Semester: Winter EGR 390 Engrg Co-op II (sws) STA 426 Multivar Data Anlys	S Credits	Grade		6th Semester: S/S EGR 362 Thermo-Fluids EGR 440 Production Models EGR 441 Engrg Econ/QC/Mfg Ops % ECO 210/211 Economics	3 4 3 3 4 3 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6		Semester Completed
Semester: EGR 490 GE - Issue	FallEngrg Co-op III	_	Semester Completed	7th Semester: Winter  EGR	3 3 3 3 3 3 4 Creatits		Semester Completed	8th Semester: S/S  EGR	2 2 3 3 3 3		Semester Completed

PCEC Student Services: (616)331-6025

- \* Engineering Foundation course requires PDM foundations
- + Students may enroll in PHY 231 instead of PHY 234
- 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).
- % ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS GenEd requirement.
- = Either CIS 161 or CIS 162 is required
- ! EGR 435 Mathematical Modeling of Physiologic Systems may be taken instead (Winter offering).

## **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 per Foundations course
- 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.