Study Plan for B.S.E., <u>INTERDISCIPLINARY ENGINEERING</u> & Bioelectrical emphasis

(2019-20 Catalog) (MTH 123 Placement - 5 Year Program)

Student Name	:		
Student ID#:	G		

1st Year	1st Semester: Fall \$\frac{8}{6}\$ MTH 123 Trigonometry 3 * WRT 150 Writ Strategies 4 ^ EGR 100 Intro to EGR 1 GE - Arts		Semester Completed	2nd Semester: Winter * MTH 201 Calculus I * EGR 106 Intro to Egr Design I * CHM 115 Chemistry I GE - Hist	2 Credits 3	 Semester Completed	Semester: S/S	Credits	Grade	Semester Completed
2nd Year	3rd Semester: Fall \$\frac{8}{5}\$ * MTH 202 Calculus II 4 4 * EGR 107 Intro to Egr Design II 3 3 @ GE - P & L (PHI 102 Ethics) 3 3 ! GE-LS (BMS 202) 4		Semester Completed	* MTH 203 Calculus III * PHY 230 Physics I * STA 220 Statistical Modeling * EGR 220 Measure/Data Analysis # GE - GP	2	 Semester Completed	Semester: S/S	Credits	Grade	Semester Completed
3rd Year	5th Semester: Fall \$\frac{8}{6}\$ + * PHY 234/1 Physics II 4/5 * EGR 209 Mech & Mach 4 5 EGR 224 Intro Dig Sys Desigi 3 * EGR 214 Circuit Analysis I 4 4 * EGR 289 Engrg Co-op Prep 1 1	5	Semester Completed	* MTH 302 Lin Alg & DEQ * EGR 223 Prob & Signals * EGR 257 Elect Mat'ls & Devices * EGR 226 MicroCtrl Pgm Appl	Credits	 Semester Completed	Semester: S/S EGR 290 Engrg Co-op I	S. Credits	Grade	Semester Completed
4th Year	7th Semester: Fall § EGR 314 Circuit Analysis II 4 EGR 315 Elect Circuits I 4 EGR 326 Embedded Sys Des 4 • GE - SBS 3	·	Semester Completed	Semester: Winter EGR 390 Engrg Co-op II (SWS)	c Credis	Semester Completed	8th Semester: S/S EGR 323 Signals & Sys CHM 230 Org & Biochem GE - Issue % ECO 210/211 Economics	3 4 3 3		Semester Completed
5th Year	Semester: Fall 3 EGR 490 Engrg Co-op III 3 EGR 434 Bioelec Potentials 3		Semester Completed	9th Semester: Winter EGR 485 Sr Project I EGR 403 Med Dev Design & EGR 432 Biomed Imaging EGR 435 Math Model Phys GE - US	1 3 3 3 3	 Semester Completed	10th Semester: S/S EGR 486 Sr Project II GE - Issue	S Credits	Grade	Semester Completed

PCEC Student Services: (616)331-6025

- Not required, but strongly recommended for success. Students are advised to take *either* EGR 100 *or* EGR 180.
- Engineering Foundation course
- 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)

Consider taking PHI 102 as an SWS

- ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS GenEd requirement.
- Students may take EGR 433 (Electronic Instrumentation)
- Required for major
- Prerequisite for upper-division course work

- <u>Secondary Admissions Criteria:</u>
 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