

Study Plan for B.S.E., *INTERDISCIPLINARY ENGINEERING* & Bioelectrical emphasis

Student Name: _____

(2018-19 Catalog) (MTH 124 Placement - 5 Year Program)

Student ID#: G _____

Year	Semester	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Semester	Credits	Grade	Semester Completed
1st Year	1st Semester: Fall							Semester: S/S			
	MTH 124 Functions & Model	5	_____	_____	* MTH 201 Calculus I	4	_____	_____	_____	_____	_____
	* WRT 150 Writ Strategies	4	_____	_____	* EGR 106 Intro to Egr Design I	3	_____	_____	_____	_____	_____
	^ EGR 100 Intro to EGR	1	_____	_____	* CHM 115 Chemistry I	4	_____	_____	_____	_____	_____
	GE - Arts _____	3	_____	_____	GE - Hist _____	3	_____	_____	_____	_____	_____
^ EGR 180 EGR Prob Solving	3	_____	_____								
2nd Year	3rd Semester: Fall							Semester: S/S			
	* MTH 202 Calculus II	4	_____	_____	* MTH 203 Calculus III	4	_____	_____	_____	_____	_____
	* EGR 107 Intro to Egr Design II	3	_____	_____	* PHY 230 Physics I	5	_____	_____	_____	_____	_____
	@ GE - P & L (PHI 102 Ethics)	3	_____	_____	* STA 220 Statistical Modeling	2	_____	_____	_____	_____	_____
	! GE-LS (BMS 202)	4	_____	_____	* EGR 220 Measure/Data Analysis	1	_____	_____	_____	_____	_____
				# GE - GP _____	3	_____	_____	_____	_____	_____	_____
3rd Year	5th Semester: Fall							Semester: S/S			
	+ * PHY 234/1 Physics II	4/5	_____	_____	* MTH 302 Lin Alg & DEQ	4	_____	_____	EGR 290 Engrg Co-op I	3	_____
	* EGR 209 Mech & Mach	4	_____	_____	* EGR 223 Prob & Signals	3	_____	_____	_____	_____	_____
	\$ EGR 224 Intro Dig Sys Desig	3	_____	_____	* EGR 257 Elect Mat'ls & Devices	4	_____	_____	_____	_____	_____
	* EGR 214 Circuit Analysis I	4	_____	_____	* EGR 226 MicroCtrl Pgm Appl	4	_____	_____	_____	_____	_____
* EGR 289 Engrg Co-op Prep	1	_____	_____								
4th Year	7th Semester: Fall							Semester: S/S			
	EGR 314 Circuit Analysis II	4	_____	_____	Semester: Winter				EGR 323 Signals & Sys	3	_____
	EGR 315 Elect Circuits I	4	_____	_____	EGR 390 Engrg Co-op II (SWS)	3	_____	_____	CHM 230 Org & Biochem	4	_____
	EGR 326 Embedded Sys Des	4	_____	_____					• GE - SBS _____	3	_____
	GE - Issue _____	3	_____	_____					% ECO 210/211 Economics	3	_____
5th Year	Semester: Fall							10th Semester: S/S			
	EGR 490 Engrg Co-op III	3	_____	_____	9th Semester: Winter				EGR 486 Sr Project II	2	_____
	EGR 434 Bioelec Potentials	3	_____	_____	EGR 485 Sr Project I	1	_____	_____	GE - Issue _____	3	_____
					EGR 403 Med Dev Design	3	_____	_____			
					& EGR 432 Biomed Imaging	3	_____	_____			
				EGR 435 Math Model Phys	3	_____	_____				
				GE - US _____	3	_____	_____				

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

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