

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

(2018-19 Catalog) (MTH 123 Placement - 5 Year Program)

Student Name: _____

Student ID#: G

	1st Semester: Fall _____			2nd Semester: Winter _____			Semester: S/S _____				
	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed		
1st Year	MTH 123	Trigonometry	3	_____	_____	* 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 _____			4th Semester: Winter _____			Semester: S/S _____				
	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed		
	* 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 _____			6th Semester: Winter _____			Semester: S/S _____				
	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed		
	+ * PHY 234/1	Physics II	4/5	_____	_____	* MTH 302	Lin Alg & DEQ	4	_____	_____	EGR 290
	* EGR 209	Mech & Mach	4	_____	_____	* EGR 223	Prob & Signals	3	_____	_____	
	\$ EGR 224	Intro Dig Sys Design	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: Winter _____			8th Semester: S/S _____				
	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed		
	EGR 314	Circuit Analysis II	4	_____	_____	EGR 390	Engrg Co-op II (SWS)	3	_____	_____	EGR 323
	EGR 315	Elect Circuits I	4	_____	_____					_____	
	EGR 326	Embedded Sys Des	4	_____	_____					_____	
• GE - SBS	_____	3	_____	_____					_____		

5th Year	Semester: Fall _____			9th Semester: Winter _____			10th Semester: S/S _____				
	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed		
	EGR 490	Engrg Co-op III	3	_____	_____	EGR 485	Sr Project I	1	_____	_____	EGR 486
EGR 434	Bioelec Potentials	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