

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

(2019-20 Catalog) (MTH 110 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 110	Algebra	4	_____	MTH 124	Functions & Models	5	_____	_____	_____	_____	_____
	* WRT 150	Writ Strategies	4	_____	* CHM 115	Chemistry I	4	_____	_____	_____	_____	_____
	^ EGR 100	Intro to EGR	1	_____	# GE - GP	_____	3	_____	_____	_____	_____	_____
	GE - Arts	_____	3	_____	• GE - SBS	_____	3	_____	_____	_____	_____	_____
	GE - Hist	_____	3	_____								
2nd Year	3rd Semester: Fall _____				4th Semester: Winter _____				Semester: S/S _____			
	* MTH 201	Calculus I	4	_____	* MTH 202	Calculus II	4	_____	* EGR 214	Circuit Analysis I	4	_____
	* EGR 106	Intro to Egr Design I	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	_____				
					* EGR 107	Intro to Egr Design II	3	_____				
3rd Year	5th Semester: Fall _____				6th Semester: Winter _____				Semester: S/S _____			
	* MTH 203	Calculus III	4	_____	* MTH 302	Lin Alg & DEQ	4	_____	EGR 290	Engrg Co-op I	3	_____
	+ * PHY 234/1	Physics II	4/5	_____	* EGR 223	Prob & Signals	3	_____				
	* EGR 209	Mech & Mach	4	_____	* EGR 257	Elect Mat'ls & Devices	4	_____				
	§ EGR 224	Intro Dig Sys Desig	3	_____	* EGR 226	MicroCtrl Pgm Appl	4	_____				
	* EGR 289	Engrg Co-op Prep	1	_____								
4th Year	7th Semester: Fall _____				Semester: Winter _____				8th Semester: S/S _____			
	EGR 314	Circuit Analysis II	4	_____	EGR 390	Engrg Co-op II (SWS)	3	_____	EGR 323	Signals & Sys	3	_____
	EGR 315	Elect Circuits I	4	_____					CHM 230	Org & Biochem	4	_____
	EGR 326	Embedded Sys Des	4	_____					GE - Issue	_____	3	_____
									% ECO 210/211	Economics	3	_____
5th Year	Semester: Fall _____				9th Semester: Winter _____				10th Semester: S/S _____			
	EGR 490	Engrg Co-op III	3	_____	EGR 485	Sr Project I	1	_____	EGR 486	Sr Project II	2	_____
	EGR 434	Bioelec Potentials	3	_____	EGR 403	Med Dev Design	3	_____	GE - Issue	_____	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.
- * 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