

**Study Plan for B.S.E., *Biomedical Engineering (Electrical Emphasis)***

(2019-20 Catalog) (MTH 124 Placement - 5 Year Program)

Student Name: \_\_\_\_\_

Student ID#: \_\_\_\_\_

Year	1st Semester: Fall _____				2nd Semester: Winter _____				Semester: S/S _____				
		Credits	Grade	Semester Completed		Credits	Grade	Semester Completed		Credits	Grade	Semester Completed	
1st Year	MTH 124	Functions & Models	5	_____	* MTH 201	Calculus I	4	_____	_____	_____	_____	_____	
	* WRT 150	Writ Strategies	4	_____	* CHM 115	Chemistry I	4	_____	_____	_____	_____	_____	
	GE - HP	_____	3	_____	* EGR 106	Intro to Egr Design I	3	_____	_____	_____	_____	_____	
	^ EGR 100	Intro to Egr	1	_____	GE- Arts	_____	3	_____	_____	_____	_____	_____	
	^ EGR 180	Intro 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 231	Physics II	5	_____	_____	_____	_____	_____	
	* PHY 230	Physics I	5	_____	* STA 220	Statistical Modeling	2	_____	_____	_____	_____	_____	
@ GE - P & L (PHI 102 Ethics)	_____	3	_____	* EGR 220	Measure/Data Analysis	1	_____	_____	_____	_____	_____		
				• GE-SBS	_____	3	_____	_____	_____	_____	_____	_____	
3rd Year	5th Semester: Fall _____				6th Semester: Winter _____				Semester: S/S _____				
		Credits	Grade	Semester Completed		Credits	Grade	Semester Completed		Credits	Grade	Semester Completed	
	* EGR 224	Intro Dig Sys Desgr	3	_____	* MTH 302	Lin Alg & DEQ	4	_____	_____	EGR 290	Engrg Co-op I	3	_____
	* EGR 226	MicroCtrl Pgm Appl	4	_____	* EGR 223	Probab & Signals	3	_____	_____	_____	_____	_____	_____
	* EGR 214	Circuit Analysis I	4	_____	* EGR 257	Elect Mat'ls & Devices	4	_____	_____	_____	_____	_____	_____
* EGR 289	Engrg Co-op Prep	1	_____	% ECO 210/211	Economics	3	_____	_____	_____	_____	_____	_____	
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	Signals & Sys	3	_____
	EGR 315	Elect Circuits I	4	_____	_____	_____	_____	_____	_____	BMS 202	Anatomy & Phys	4	_____
	EGR 326	Embedded Sys Des	4	_____	_____	_____	_____	_____	_____	GE - Issue	_____	3	_____
CHM 230	Organic & Biochem	4	_____	_____	_____	_____	_____	_____	GE - Issue	_____	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	Sr Project II	2	_____
EGR 434	Bioelectric Potential	3	_____	EGR 435	MMPS	3	_____	_____	BME Elec	_____	3/4	_____	
				BME Elec	_____	3/4	_____	_____	GE - US	_____	3	_____	
				BME Elec	_____	3/4	_____	_____	# GE - GP	_____	3	_____	
				EGR 403	Med Dev Design	3	_____	_____					

PCEC Student Services: (616)331-6025

- \* Engineering Foundation course
- + Students may enroll in PHY 231 instead of PHY 234
- ^ Students should select EGR 100 OR 180. Not required, but strongly recommended for success
- Consider taking a course that fulfills the U.S. Diversity Category and one non-ECO Social and Behavioral Science course.
- # Consider taking a course that fulfills the Global Perspectives Category and one Issues course.
- @ An ethics course is required in the engineering program (refer to MyPath for more options)  
Consider taking PHI 102 as an SWS
- % ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS GenEd requirement.
- ! Also fulfills the General Education Life Science Requirement

**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 MTH 201 equivalent elsewhere, return to GV and continue in the math thread with MTH 202.