

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

(2019-20 Catalog) (MTH 110 Placement - 5 Year Program)

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

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

Year	Semester	Credits	Grade	Semester Completed	Semester	Credits	Grade	Semester Completed	Semester	Credits	Grade	Semester Completed
1st Year	<b>1st Semester: Fall</b>				<b>2nd Semester: Winter</b>				<b>Semester: S/S</b>			
	MTH 110 Algebra	4			MTH 124 Functions/Models	5						
	* WRT 150 Writ Strategies	4			* CHM 115 Chemistry I	4						
	GE - HP	3			@ GE - P & L (PHI 102 Ethics)	3						
	^ EGR 100 Intro to Egr	1			• GE - SBS	3						
GE - Arts	3											
2nd Year	<b>3rd Semester: Fall</b>				<b>4th Semester: Winter</b>				<b>Semester: S/S</b>			
	* MTH 201 Calculus I	4			* MTH 202 Calculus II	4						
	* EGR 106 Intro to Egr Design I	3			* PHY 230 Physics I	5						
	GE US	3			* STA 220 Statistical Modeling	2						
	% ECO 210/211 Economics	3			* EGR 220 Measure/Data Analysis	1						
EGR 107 Intro to Egr Design I	3											
3rd Year	<b>5th Semester: Fall</b>				<b>6th Semester: Winter</b>				<b>Semester: S/S</b>			
	* 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 Probab & Signals	3						
	* EGR 224 Intro Dig Sys Desigr	3			* EGR 257 Elect Mat'ls & Devices	4						
	* EGR 226 MicroCtrl Pgm Appl	4			* EGR 214 Circuit Analysis I	4						
* EGR 289 Engrg Co-op Prep	1											
4th Year	<b>7th Semester: Fall</b>				<b>Semester: Winter</b>				<b>8th Semester: S/S</b>			
	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	<b>Semester: Fall</b>				<b>9th Semester: Winter</b>				<b>10th Semester: S/S</b>			
	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 - GP	3			
				BME Elec	3/4							
				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
- ^ 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