

**Study Plan for B.S.E., *Biomedical Engineering (Product Design and Manufacturing Emphasis)***

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

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

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

Year	Semester	Credits	Grade	Semester Completed
1st Year	<b>1st Semester: Fall</b>			
	MTH 124 Functions & Models	5	_____	_____
	* WRT 150 Writ Strategies	4	_____	_____
	^ EGR 100 Intro to Egr	1	_____	_____
	^ EGR 180 Intro Egr Prob Solv	3	_____	_____
	GE - HP	3	_____	_____
2nd Year	<b>3rd Semester: Fall</b>			
	* MTH 202 Calculus II	4	_____	_____
	* EGR 107 Intro to Egr Design II	3	_____	_____
	! BMS 202 Anatomy & Physiolog	4	_____	_____
	% ECO 210/211 Economics	3	_____	_____
3rd Year	<b>5th Semester: Fall</b>			
	+ * PHY 234/1 Physics II	4/5	_____	_____
	* EGR 226 MicroCtrl Pgm Appl	4	_____	_____
	* EGR 209 Mech & Mach	4	_____	_____
	* EGR 289 Engrg Co-op Prep	1	_____	_____
4th Year	<b>7th Semester: Fall</b>			
	EGR 301 Fund Prod Des	4	_____	_____
	EGR 345 Dyn Sys Mod	4	_____	_____
	EGR 367 Mfg Processes	4	_____	_____
	• GE-SBS	3	_____	_____
5th Year	<b>Semester: Fall</b>			
	EGR 490 Engrg Co-op III	3	_____	_____
	EGR 453 Biomedical Mat	3	_____	_____
	<b>9th Semester: Winter</b>			
	EGR 485 Sr Project I	1	_____	_____
EGR 435 MMPS	3	_____	_____	
EGR 403 Med Device Design	3	_____	_____	
BME Elec	3	_____	_____	
GE -Issue	3	_____	_____	
<b>10th Semester: S/S</b>				
EGR 486 Sr Project II	2	_____	_____	
BME Elec	3	_____	_____	
• GE-US	3	_____	_____	
<b>2nd Semester: Winter</b>				
* MTH 201 Calculus I	4	_____	_____	
* CHM 115 Chemistry I	4	_____	_____	
* EGR 106 Intro to Egr Design I	3	_____	_____	
GE - Arts	3	_____	_____	
<b>Semester: S/S</b>				
<b>4th Semester: Winter</b>				
* MTH 203 Calculus III	4	_____	_____	
* PHY 230 Physics I	5	_____	_____	
* STA 220 Statistical Modeling	2	_____	_____	
* EGR 220 Measure/Data Analysis	1	_____	_____	
@ GE - P & L (PHI 102 Ethics)	3	_____	_____	
<b>Semester: S/S</b>				
<b>6th Semester: Winter</b>				
* MTH 302 Lin Alg & DEQ	4	_____	_____	
* EGR 309 Mach Design I	4	_____	_____	
* EGR 250 Mat Sci & Engrg	4	_____	_____	
* EGR 214 Circuit Analysis I	4	_____	_____	
<b>Semester: S/S</b>				
EGR 290 Engrg Co-op I	3	_____	_____	
<b>8th Semester: S/S</b>				
CHM 230 Organic & Biocher	4	_____	_____	
EGR 362 Thermo-Fluid Sys	4	_____	_____	
GE -Issue	3	_____	_____	
# GE - GP	3	_____	_____	

**PCEC Student Services: (616)331-6025**

- \* Engineering Foundation course
- ^ Not required, but strongly recommended for success. Students are advised to take either EGR 100 or EGR 180.
- + 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 or 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.
- ! Fulfills 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