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

Student Name: _____

(2019-20 Catalog) ***(MTH 122 Placement - 5 Year Program)***

Student ID#: _____

1st Year

	1st Semester: Fall____	Credits	Grade	Semester Completed
$	MTH 122 College Algebra	3		
*	WRT 150 Writ Strategies	4		
	GE - HP _____	3		
^	EGR 100 Intro to Egr	1		
	GE - Arts _____	3		

	2nd Semester: Winter ____	Credits	Grade	Semester Completed
	MTH 123 Trigonometry	3		
*	CHM 115 Chemistry I	4		
@	GE - P & L (PHI 102 Ethics)	3		
•	GE - SBS _____	3		

Semester: S/S ____	Credits	Grade	Semester Completed
_____	__		
_____	__		

2nd Year

	3rd Semester: Fall____	Credits	Grade	Semester Completed
*	MTH 201 Calculus I	4		
*	EGR 106 Intro to Egr Design I	3		
	GE - US _____	3		
%	ECO 210/211 Economics	3		

	4th Semester: Winter ____	Credits	Grade	Semester Completed
*	MTH 202 Calculus II	4		
*	PHY 230 Physics I	5		
*	STA 220 Statistical Modeling	2		
*	EGR 220 Measure/Data Analysis	1		
*	EGR 107 Intro to Egr Design I	3		

Semester: S/S ____	Credits	Grade	Semester Completed
_____	__		
_____	__		

3rd Year

	5th Semester: Fall____	Credits	Grade	Semester Completed
*	MTH 203 Calculus III	4		
+ *	PHY 234/1 Physics II	4/5		
*	EGR 224 Intro Dig Sys Desigr	3		
*	EGR 226 MicroCtrl Pgm Appl	4		
*	EGR 289 Engrg Co-op Prep	1		

	6th Semester: Winter ____	Credits	Grade	Semester Completed
*	MTH 302 Lin Alg & DEQ	4		
*	EGR 223 Probab & Signals	3		
*	EGR 257 Elect Mat'ls & Devices	4		
*	EGR 214 Circuit Analysis I	4		

Semester: S/S ____	Credits	Grade	Semester Completed
EGR 290 Engrg Co-op I	3		

4th Year

	7th Semester: Fall____	Credits	Grade	Semester Completed
	EGR 314 Circuit Analysis II	4		
	EGR 315 Elect Circuits I	4		
	EGR 326 Embedded Sys Des	4		
	CHM 230 Organic & Biochem	4		

	Semester: Winter ____	Credits	Grade	Semester Completed
	EGR 390 Engrg Co-op II (SWS)	3		

	8th Semester: S/S ____	Credits	Grade	Semester Completed
	EGR 323 Signals & Sys	3		
!	BMS 202 Anatomy & Phys	4		
	GE - Issue _____	3		
	GE - Issue _____	3		

5th Year

	Semester: Fall____	Credits	Grade	Semester Completed
	EGR 490 Engrg Co-op III	3		
	EGR 434 Bioelectric Potential	3		

	9th Semester: Winter ____	Credits	Grade	Semester Completed
	EGR 485 Sr Project I	1		
	EGR 435 MMPS	3		
	BME Elec _____	3/4		
	BME Elec _____	3/4		
	EGR 403 Med Dev Design	3		

	10th Semester: S/S ____	Credits	Grade	Semester Completed
	EGR 486 Sr Project II	2		
	BME Elec _____	3/4		
#	GE - GP	3		

PCEC Student Services: (616)331-6025

* Engineering Foundation course

$ Students may elect to take MTH 124 instead of MTH 122 and MTH 123

\+ 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 thread with MTH 202.