Study Plan for B.S.E., *Biomedical Engineering (Mechanical Emphasis)* **Minor:** _____ **Student Name:** _____

(2019-20 Catalog) ***(MTH 201 Placement with Honors Alliance and Conflict - 5 Year Program)*** **Student ID#:** G

		Credits	Grade	Semester Completed
1st Year	**1st Semester: Fall____**			
	* MTH 201 Calculus I	4	_____	_____
	* CHM 115 Chemistry I	4	_____	_____
	HNR 260	3	_____	_____
	HNR 201 Live, Learn, Lead	3	_____	_____
	2nd Semester: Winter ____			
	* MTH 202 Calculus II	4	_____	_____
	* EGR 106 Intro to Egr Design I	3	_____	_____
	HNR 261	3	_____	_____
	HNR 262	3	_____	_____
	Semester: S/S _____			
	_____	__	_____	_____
	_____	__	_____	_____
	_____	__	_____	_____
2nd Year	**3rd Semester: Fall____**			
	* MTH 203 Calculus III	4	_____	_____
	* EGR 107 Intro to Egr Design II	3	_____	_____
	* PHY 230 Physics I	5	_____	_____
	* STA 220 Statistical Modeling	2	_____	_____
	* EGR 220 Measure/Data Analysis	1	_____	_____
	4th Semester: Winter ____			
	* MTH 302 Lin Alg & DEQ	4	_____	_____
+	* PHY 231 Physics II	5	_____	_____
	% ECO 210/211 Economics	3	_____	_____
	Semester: S/S ____			
	_____	__	_____	_____
	_____	__	_____	_____
	_____	__	_____	_____
3rd Year	**5th Semester: Fall____**			
	* EGR 226 MicroCtrl Pgm Appl	4	_____	_____
	* EGR 214 Circuit Analysis I	4	_____	_____
	* EGR 209 Mech & Mach	4	_____	_____
	* EGR 289 Engrg Co-op Prep	1	_____	_____
	6th Semester: Winter ____			
	* EGR 309 Mach Design I	4	_____	_____
	* EGR 312 Dynamics	3	_____	_____
	! HNR LS (BMS 202)	4	_____	_____
	$ HNR US _____	3	_____	_____
	Semester: S/S ____			
	EGR 290 Engrg Co-op I	3	_____	_____
4th Year	**7th Semester: Fall____**			
	EGR 250 Mat Sci & Engrg	4	_____	_____
	EGR 346 Mechatronics & Ctrl	4	_____	_____
	CHM 230 Organic & Biochem	4	_____	_____
	Semester: Winter ____			
	EGR 390 Engrg Co-op II (SWS)	3	_____	_____
	8th Semester: S/S ____			
	EGR 362 Thermofluids	4	_____	_____
#	HNR Jr. Sem _____	3	_____	_____
5th Year	**Semester: Fall____**			
	EGR 490 Engrg Co-op III	3	_____	_____
	EGR 453 Biomedical Mat	3	_____	_____
	9th Semester: Winter ____			
&	EGR 485 Sr Project I	1	_____	_____
	EGR 435 MMPS	3	_____	_____
	EGR 447 Mech Human Motior	3	_____	_____
	EGR 403 Med Device Design	3	_____	_____
	BME Elec _____	3/4	_____	_____
	10th Semester: S/S ____			
&	EGR 486 Sr Project II	2	_____	_____
	BME Elec _____	3/4	_____	_____

PCEC Student Services: (616)331-6025

* Engineering Foundation course

\+ Engineering Physics II (PHY 234) is available in fall only.

\# The Jr. Seminar fulfills one Issues and one SWS requirement.
HNR 312 will also fulfill US Diversity.
Junior Seminars can be taken when students have >= 45 credits. Online seminars offered each semester.

% ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS Honors requirement.

$ HNR US Diversity requirement can be met with a Jr. Seminar (HNR 312).

& Completion of EGR 485 and 486 will fulfill the HNR 499 Senior Project requirement.

! BMS 202 is a major requirement and also fulfills the HNR Life Science requirement.

If students do not have Advanced Placement credit applicable to the engineering curriculum, e.g., Calculus, Physics, and/or Chemistry, it is strongly recommended that they consider a 5-year plan.

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 in each Foundation course.**

- 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.