

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

(2019-20 Catalog) (MTH 201 Placement with Honors Alliance and Conflict - 5 Year Program)

Student Name: _____

Student ID#: G

Minor: _____

Year	Semester	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed			
1st Year	1st Semester: Fall				2nd Semester: Winter			Semester: S/S					
	* MTH 201 Calculus I	4	_____	_____	* MTH 202 Calculus II	4	_____	_____	_____	_____			
	* CHM 115 Chemistry I	4	_____	_____	* EGR 106 Intro to Egr Design I	3	_____	_____	_____	_____			
	HNR 260	3	_____	_____	HNR 261	3	_____	_____	_____	_____			
	HNR 201 Live, Learn, Lead	3	_____	_____	HNR 262	3	_____	_____	_____	_____			
2nd Year	3rd Semester: Fall				4th Semester: Winter			Semester: S/S					
	* MTH 203 Calculus III	4	_____	_____	* MTH 302 Lin Alg & DEQ	4	_____	_____	_____	_____			
	* EGR 107 Intro to Egr Design I	3	_____	_____	+ * PHY 231 Physics II	5	_____	_____	_____	_____			
	* PHY 230 Physics I	5	_____	_____	% ECO 210/211 Economics	3	_____	_____	_____	_____			
	* STA 220 Statistical Modeling	2	_____	_____									
* EGR 220 Measure/Data Analy	1	_____	_____										
3rd Year	5th Semester: Fall				6th Semester: Winter			Semester: S/S					
	* EGR 226 MicroCtrl Pgm Appl	4	_____	_____	* EGR 309 Mach Design I	4	_____	_____	EGR 290	Enggr Co-op I	3	_____	_____
	* EGR 214 Circuit Analysis I	4	_____	_____	* EGR 250 Mat Sci & Engrg	4	_____	_____					
	* EGR 209 Mech & Mach	4	_____	_____	! HNR LS (BMS 202)	4	_____	_____					
* EGR 289 Engrg Co-op Prep	1	_____	_____										
4th Year	7th Semester: Fall				Semester: Winter			8th Semester: S/S					
	EGR 301 Fund Prod Des	4	_____	_____	EGR 390	Enggr Co-op II (sws)	3	_____	_____	_____			
	EGR 345 Dyn Sys Mod	4	_____	_____				EGR 362	Thermo-Fluid S	4	_____	_____	
EGR 367 Mfg Processes	4	_____	_____				CHM 230	Organic & Bioche	4	_____	_____		
							\$ HNR US		3	_____	_____		
							# HNR Jr. Sem		3	_____	_____		
5th Year	Semester: Fall				9th Semester: Winter			10th Semester: S/S					
	EGR 490	Enggr Co-op III	3	_____	& EGR 485	Sr Project I	1	_____	& EGR 486	Sr Project II	2	_____	_____
	EGR 453	Biomedical Mat	3	_____	EGR 435	MMPS	3	_____	BME Elec		3/4	_____	_____
				EGR 403	Med Device Design	3	_____						
				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 HNR 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 required for the major and also fulfills HNR 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 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.

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.