

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

(2019-20 Catalog) (MTH 201 Placement with Honors Alliance and Conflict - 4 Year Program)

Minor: _____

Student Name: _____

Student ID#: _____

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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	_____	* EGR 107 Intro to Egr Design II	3	_____
	* CHM 115 Chemistry I	4	_____	_____	* EGR 106 Intro to Egr Design I	3	_____	* MTH 203 Calculus III	4	_____
	HNR 260	3	_____	_____	HNR 261	3	_____	* PHY 230 Physics I	5	_____
	HNR 201 Live, Learn, Lead	3	_____	_____	HNR 262	3	_____			
2nd Year	3rd Semester: Fall				4th Semester: Winter			Semester: S/S		
	+ * PHY 234/1 Physics II	4/5	_____	_____	* MTH 302 Lin Alg & DEQ	4	_____	EGR 290 Engrg Co-op I	3	_____
	* STA 220 Statistical Modeling	2	_____	_____	* EGR 309 Mach Design I	4	_____	* EGR 214 Circuit Analysis I	4	_____
	* EGR 220 Measure/Data Analys	1	_____	_____	* EGR 250 Mat. Sci. & Engrg	4	_____			
	* EGR 209 Mech & Mach	4	_____	_____	* EGR 226 MicroCtrl Pgm Appl	4	_____			
3rd Year	5th Semester: Fall				Semester: Winter			6th Semester: S/S		
	EGR 301 Fund Prod Des	4	_____	_____	EGR 390 Engrg Co-op II (sws)	3	_____	EGR 362 Thermo-Fluid Sys	4	_____
	EGR 345 Dyn Sys Mod	4	_____	_____				CHM 230 Organic & Biochem	4	_____
	EGR 367 Mfg Processes	4	_____	_____				! HNR LS (BMS 202)	4	_____
4th Year	Semester: Fall				7th Semester: Winter			8th Semester: S/S		
	EGR 490 Engrg 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	_____	\$ HNR US _____	3	_____
				BME Elec _____	3/4	_____	% ECO 210/211 Economics	3	_____	

PCEC Student Services: (616)331-6025

- * Engineering Foundation course
- + Students may enroll in PHY 231 instead of PHY 234
- # The Jr. Seminar fulfills one Issue 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.