

Study Plan for B.S.E., ***INTERDISCIPLINARY ENGINEERING*** Major & Biomechanics Emphasis

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

(2018-19 Catalog) (MTH 201 Placement with Honors Alliance and Conflict - 4 Year Program)

Student ID#: G

Minor: \_\_\_\_\_

	1st Semester: Fall _____			Credits	Grade	Semester Completed	2nd Semester: Winter _____			Credits	Grade	Semester Completed	Semester: S/S _____			Credits	Grade	Semester Completed				
1st Year	*	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 _____			Credits	Grade	Semester Completed	4th Semester: Winter _____			Credits	Grade	Semester Completed	Semester: S/S _____			Credits	Grade	Semester Completed				
	+	*	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	312	Dynamics	3	_____	_____
		*	EGR	220	Measure/Data Analysis	1	_____	_____	*	EGR	250	Mat Sci & Engrg	4	_____	_____							
		*	EGR	209	Mech & Mach	4	_____	_____	*	EGR	214	Circuit Analysis I	4	_____	_____							
		*	EGR	226	MicroCtrl Pgm Appl	4	_____	_____														
	*	EGR	289	Engrg Co-op Prep	1	_____	_____															
3rd Year	5th Semester: Fall _____			Credits	Grade	Semester Completed	Semester: Winter _____			Credits	Grade	Semester Completed	6th Semester: S/S _____			Credits	Grade	Semester Completed				
			EGR	346	Mechatronics & Ctrl	4	_____	_____		EGR	390	Engrg Co-op II (sws)	3	_____	_____		EGR	365	Fluid Mechanics	4	_____	_____
			EGR	360	Thermodynamics	4	_____	_____		EGR	447	Mech/Human Motior	3	_____	_____	%	ECO	210/211	Economics	3	_____	_____
	!	HNR	LS	(BMS 202)	4	_____	_____							#	HNR	Jr. Sem	_____	3	_____	_____		
4th Year	Semester: Fall _____			Credits	Grade	Semester Completed	7th Semester: Winter _____			Credits	Grade	Semester Completed	8th Semester: S/S _____			Credits	Grade	Semester Completed				
			EGR	490	Engrg Co-op III	3	_____	_____	&	EGR	485	Sr Project I	1	_____	_____	&	EGR	486	Sr Project II	2	_____	_____
			EGR	453	Biomedical Materials	3	_____	_____		EGR	403	Med Dev Design	3	_____	_____							
									EGR	435	Math Model Phys	3	_____	_____								
									EGR	465	Comp Fluid Dyn	3	_____	_____								
									\$	HNR	US	_____	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 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.
- ^ Pre-requisite for required upper-level coursework
- ! Required for major

**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.