

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

Student Name: _____

(2018-19 Catalog) (MTH 201 Placement with Honors Alliance and Conflict - 5 Year Program)

Student ID#: G

Minor: _____

1st Year	1st Semester: Fall _____				2nd Semester: Winter _____				Semester: S/S _____						
	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed			
	* 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 _____						
	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed			
	* MTH 203	Calculus III	4	_____	_____	* MTH 302	Lin Alg & DEQ	4	_____	_____	_____	_____			
	* EGR 107	Intro to Egr Design II	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 Analysis	1	_____	_____										
3rd Year	5th Semester: Fall _____				6th Semester: Winter _____				Semester: S/S _____						
	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed			
	* EGR 226	MicroCtrl Pgm Appl	4	_____	_____	* EGR 309	Mach Design I	4	_____	_____	EGR 290	Engrg Co-op I	3	_____	_____
	* EGR 214	Circuit Analysis I	4	_____	_____	^ EGR 312	Dynamics	3	_____	_____					
	* EGR 209	Mech & Mach	4	_____	_____	* EGR 250	Mat Sci & Engrg	4	_____	_____					
	* EGR 289	Engrg Co-op Prep	1	_____	_____	\$ HNR US		3	_____	_____					
4th Year	7th Semester: Fall _____				Semester: Winter _____				8th Semester: S/S _____						
	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	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	_____	_____	CHM 230	Org & Biochem	4	_____	_____
	! HNR LS	(BMS 202)	4	_____	_____						# HNR Jr. Sem		3	_____	_____
5th Year	Semester: Fall _____				9th Semester: Winter _____				10th Semester: S/S _____						
	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	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	_____	_____					

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.
- ^ 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.