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

Student Name: _____

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

Student ID#: G

Minor: _____

1st Year	**1st Semester: Fall____**				*Credits*	*Grade*	*Semester Completed*	**2nd Semester: Winter ____**				*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____**				*Credits*	*Grade*	*Semester Completed*	**4th Semester: Winter ____**				*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____**				*Credits*	*Grade*	*Semester Completed*	**6th Semester: Winter ____**				*Credits*	*Grade*	*Semester Completed*
	*	EGR	226	MicroCtrl Pgm Appl	4			*	EGR	309	Mach Design I	4		
	*	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____**				*Credits*	*Grade*	*Semester Completed*	**Semester: Winter ____**				*Credits*	*Grade*	*Semester Completed*
		EGR	346	Mechatronics & Ctrl	4				EGR	390	Engrg Co-op II (SWS)	3		
		EGR	360	Thermodynamics	4				EGR	447	Mech/Human Motior	3		
	!	HNR	LS	(BMS 202)	4									
5th Year	**Semester: Fall____**				*Credits*	*Grade*	*Semester Completed*	**9th Semester: Winter ____**				*Credits*	*Grade*	*Semester Completed*
		EGR	490	Engrg Co-op III	3			&	EGR	485	Sr Project I	1		
		EGR	453	Biomedical Materials	3				EGR	403	Med Dev Design	3		
									EGR	435	Math Model Phys	3		
									EGR	465	Comp Fluid Dyn	3		

Semester: S/S _____				*Credits*	*Grade*	*Semester Completed*	**Semester: S/S ____**				*Credits*	*Grade*	*Semester Completed*
_____				__			_____				__		
_____				__			_____				__		
_____				__			_____				__		
Semester: S/S ____				*Credits*	*Grade*	*Semester Completed*	**8th Semester: S/S ____**				*Credits*	*Grade*	*Semester Completed*
EGR	290	Engrg Co-op I		3				EGR	365	Fluid Mechanics	4		
								CHM	230	Org & Biochem	4		
							#	HNR	Jr. Sem	_____	3		
Semester: S/S ____				*Credits*	*Grade*	*Semester Completed*	**10th Semester: S/S ____**				*Credits*	*Grade*	*Semester Completed*
							&	EGR	486	Sr Project II	2		

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.