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

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

Minor: ____________________

Student Name: ______________________

Student ID#: G ______________________

1st Year

1st Semester: Fall____

				Credits	Grade	Semester Completed
*	MTH	201	Calculus I	4		
*	CHM	115	Chemistry I	4		
	HNR	260		3		
	HNR	201	Live, Learn, Lead	3		

2nd Semester: Winter ____

				Credits	Grade	Semester Completed
*	MTH	202	Calculus II	4		
*	EGR	106	Intro to Egr Design I	3		
	HNR	261		3		
	HNR	262		3		

Semester: S/S ____

				Credits	Grade	Semester Completed
*	EGR	107	Intro to Egr Design II	3		
*	MTH	203	Calculus III	4		
*	PHY	230	Physics I	5		

2nd Year

3rd Semester: Fall____

				Credits	Grade	Semester Completed
+ *	PHY	234/1	Physics II	4/5		
*	STA	220	Statistical Modeling	2		
*	EGR	220	Measure/Data Analysis	1		
*	EGR	209	Mech & Mach	4		
*	EGR	226	MicroCtrl Pgm Appl	4		
*	EGR	289	Engrg Co-op Prep	1		

4th Semester: Winter ____

				Credits	Grade	Semester Completed
*	MTH	302	Lin Alg & DEQ	4		
*	EGR	309	Mach Design I	4		
*	EGR	250	Mat Sci & Engrg	4		
*	EGR	214	Circuit Analysis I	4		

Semester: S/S ____

				Credits	Grade	Semester Completed
	EGR	290	Engrg Co-op I	3		
^	EGR	312	Dynamics	3		

3rd Year

5th Semester: Fall____

				Credits	Grade	Semester Completed
	EGR	346	Mechatronics & Ctrl	4		
	EGR	360	Thermodynamics	4		
!	HNR	LS	(BMS 202)	4		

Semester: Winter ____

				Credits	Grade	Semester Completed
	EGR	390	Engrg Co-op II (SWS)	3		
	EGR	447	Mech/Human Motion	3		

6th Semester: S/S ____

				Credits	Grade	Semester Completed
	EGR	365	Fluid Mechanics	4		
	CHM	230	Org & Biochem	4		
%	ECO	210/211	Economics	3		
#	HNR	Jr. Sem	____________	3		

4th Year

Semester: Fall____

				Credits	Grade	Semester Completed
	EGR	490	Engrg Co-op III	3		
	EGR	453	Biomedical Materials	3		

7th Semester: Winter ____

				Credits	Grade	Semester Completed
&	EGR	485	Sr Project I	1		
	EGR	403	Med Dev Design	3		
	EGR	435	Math Model Phys	3		
	EGR	465	Comp Fluid Dyn	3		
$	HNR	US	_____________	3		

8th Semester: S/S ____

				Credits	Grade	Semester Completed
&	EGR	486	Sr Project II	2		

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.