

Study Plan for B.S.E., MECHANICAL ENGINEERING Major

Minor: _____

Student Name: _____

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

 Student ID#: G

1st Year	1st Semester: Fall _____					Credits	Grade	Semester Completed	2nd Semester: Winter _____					Credits	Grade	Semester Completed	Semester: S/S _____					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	Semester: S/S _____					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	Engrg Statistics	2	_____				_____																			
* EGR	220	Engrg Stats Lab	1	_____	_____																							
3rd Year	5th Semester: Fall _____					Credits	Grade	Semester Completed	6th Semester: Winter _____					Credits	Grade	Semester Completed	Semester: S/S _____					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	_____				_____	HNR	LS	_____	3				_____	_____										
	* 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	8th Semester: S/S _____					Credits	Grade	Semester Completed				
	EGR	250	Mat Sci & Engrg	4	_____				_____	EGR	390	Engrg Co-op II (sws)	3				_____	_____	EGR	365	Fluid Mechanics				4	_____	_____	_____
	EGR	346	Mechatronics & Ctrl	4	_____				_____										EGR	409	Mach Design II				4	_____	_____	_____
	EGR	360	Thermodynamics	4	_____				_____										EGR	329	FEA				3	_____	_____	_____
																			# HNR	Jr. Sem	_____				3	_____	_____	_____
5th Year	Semester: Fall _____					Credits	Grade	Semester Completed	9th Semester: Winter _____					Credits	Grade	Semester Completed	10th Semester: S/S _____					Credits	Grade	Semester Completed				
	EGR	490	Engrg Co-op III	3	_____				_____	EGR	468	Heat Transfer	4				_____	_____	& EGR	486	Sr Project II				2	_____	_____	_____
									ME	Elec	_____	3/4	_____				_____	ME	Elec	_____	3/4				_____	_____	_____	
									ME	Elec	_____	3/4	_____				_____											
									& EGR	485	Sr Project I	1	_____				_____											

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.

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.