

Study Plan for B.S.E., INTERDISCIPLINARY ENGINEERING & Data Science 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	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	_____	_____	_____	_____	_____			
	*	STA	220	Statistical Modeling	2	_____	_____	%	ECO	210/211	Economics	3	_____	_____	_____	_____	_____			
	*	EGR	220	Measure/Data Analysis	1	_____	_____	*	PHY	230	Physics I	5	_____	_____	_____	_____	_____			
	*	EGR	107	Intro to Egr Design II	3	_____	_____							_____	_____	_____				
	HNR	LS	_____	3	_____	_____														
3rd Year	5th Semester: Fall _____			Credits	Grade	Semester Completed	6th Semester: Winter _____			Credits	Grade	Semester Completed	Semester: S/S _____			Credits	Grade	Semester Completed		
	+	*	PHY	234/1	Physics II	4/5	_____	_____	*	EGR	309	Machine Design I	4	_____	_____	3	_____	_____		
		*	EGR	226	MicroCtrl Pgm Appl	4	_____	_____	*	EGR	250	Material Sci & Egr	4	_____	_____					
		*	EGR	209	Mech & Mach	4	_____	_____	*	EGR	214	Circuit Analysis I	4	_____	_____					
		*	EGR	289	Engrg Co-op Prep	1	_____	_____	STA	216	Inter Applied Stats	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	345	Dyn Sys Mod	4	_____	_____	EGR	390	Engrg Co-op II (SWS)	3	_____	_____	EGR	362	Thermo-Fluids	4	_____	_____	
		EGR	367	Mfg Processes	4	_____	_____						EGR	440	Production Models	3	_____	_____		
	!	STA	321	App Regres Anlys	3	_____	_____						EGR	441	Engrg Econ/QC/Mfg Ops	4	_____	_____		
	=	CIS	161/2	Comp Sci	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	485	Sr Project I	1	_____	_____	^	EGR	486	Sr Project II	2	_____	_____
								CIS	335	Data Mining	3	_____	_____	IE	Elec.	(STA 314, EGR 641 or EGR 642)	3	_____	_____	
								CIS	360	Info Mgt & Sci	3	_____	_____							
								STA	426	Multivar Data Anlys	3	_____	_____							
							\$	HNR	US	3	_____	_____								

PCEC Student Services: (616)331-6025

- * Engineering Foundation course - requires PDM foundations
- + 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.
- = Either CIS 161 or CIS 162 is required
- ! EGR 435 Mathematical Modeling of Physiologic Systems may be taken instead (Winter offering).

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 per Foundations 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.