

Study Plan for B.S.E., INTERDISCIPLINARY ENGINEERING & Data Science emphasis

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

Student Name: _____

 Student ID#: G _____

Minor: _____

1st Year	1st Semester: Fall _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	2nd Semester: Winter _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	Semester: S/S _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>
	* 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 _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	4th Semester: Winter _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	Semester: S/S _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>
	* 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 _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	6th Semester: Winter _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	Semester: S/S _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>
	+ * PHY	234/1	Physics II	4/5	_____	_____	* EGR	309	Machine Design I	4	_____	_____	EGR 290	Engrg Co-op I	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 _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	Semester: Winter _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	8th Semester: S/S _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>
	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 _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	9th Semester: Winter _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	10th Semester: S/S _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>
	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

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.