

Study Plan for B.S.E., **INTERDISCIPLINARY ENGINEERING** with Design & Innovation emphasis

Student Name: _____

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

Student ID#: G

Minor: _____

Year	Semester	Credits	Grade	Semester Completed	Semester	Credits	Grade	Semester Completed	Semester	Credits	Grade	Semester Completed	
1st Year	1st Semester: Fall _____					2nd Semester: Winter _____				Semester: S/S _____			
	* 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 _____					4th Semester: Winter _____				Semester: S/S _____			
	* 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 _____					6th Semester: Winter _____				Semester: S/S _____			
	+ * 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	Materials Science	4	_____	_____	_____	_____	_____
	* EGR 209	Mech & Mach	4	_____		* EGR 214	Circuit Analysis I	4	_____	_____	_____	_____	_____
	* EGR 289	Engrg Co-op Prep	1	_____									
	~ IDS 101	Inov & Prob Solving	2	_____									
4th Year	7th Semester: Fall _____					Semester: Winter _____				8th Semester: S/S _____			
	EGR 301	Fund Prod Des	4	_____		EGR 390	Engrg Co-op II (SWS)	3	_____	EGR 362	Thermo-Fluid Sys	4	_____
	EGR 345	Dyn Sys Mod	4	_____		LIB 323	Design Thinking	3	_____	^ IE Elec	_____	3/4	_____
	EGR 367	Mfg Processes	4	_____						# HNR Jr. Sem	_____	3	_____
	~ MDA 112	Design Drawing I	3	_____						LIB 310	Creativity	3	_____
5th Year	Semester: Fall _____					9th Semester: Winter _____				10th Semester: S/S _____			
	EGR 490	Engrg Co-op III	3	_____		& EGR 485	Sr Project I	1	_____	& EGR 486	Sr Project II	2	_____
	~ IDS 313	Thought & Design II	3	_____		~ IDS 413	Thought & Design III	3	_____				
					~ IDS 312	Human Innovation	3	_____					
					\$ HNR US	_____	3	_____					

PCEC Student Services: (616)331-6025

- * Engineering Foundation course
- + Students may enroll in PHY 231 instead of PHY 234
- % ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS Honors requirement.
- ^ Students may enroll in EGR 401-Adv. Product Design (Winter), EGR 403-Medical Device Design (Winter), or EGR 405-Material Failure (Spring/Summer)
- ~ Course is only offered at Cornerstone University
- # 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.
- \$ 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.

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**
- 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