Study Plan for B.S.E., *INTERDISCIPLINARY ENGINEERING* & Environmental emphasis

Student Name: _____

(2019-20 Catalog) ***(MTH 201 Placement with Honors Alliance & Conflict - 4 year program)***

Student ID#: *G* _____

Minor: _____

		Credits	Grade	Semester Completed
1st Year	**1st Semester: Fall____**			
	* MTH 201 Calculus I	4		
	* CHM 115 Chemistry I	4		
	HNR 260 _____	3		
	HNR 201 Live, Learn, Lead	3		
	2nd Semester: Winter ____			
	* MTH 202 Calculus II	4		
	* EGR 106 Intro to Egr Design I	3		
	HNR 261 _____	3		
	HNR 262 _____	3		
	Semester: S/S ____			
	* PHY 230 Physics I	5		
	* EGR 107 Intro to Egr Design II	3		
	* MTH 203 Calculus III	4		
2nd Year	**3rd Semester: Fall____**			
	* STA 220 Statistical Modeling	2		
	* EGR 220 Measure/Data Analysis	1		
+	* PHY 234/1 Physics II	4/5		
	* EGR 226 MicroCtrl Pgm Appl	4		
	* EGR 209 Mech & Mach	4		
	* EGR 289 Engrg Co-op Prep	1		
	4th Semester: Winter ____			
	* MTH 302 Lin Alg & DEQ	4		
	* EGR 309 Machine Design I	4		
	* EGR 250 Materials Science	4		
	* EGR 214 Circuit Analysis I	4		
	Semester: S/S ____			
	EGR 290 Engrg Co-op I	3		
3rd Year	**5th Semester: Fall____**			
	EGR 346 Mechatronic Sys.	4		
	EGR 360 Thermodynamics	4		
@	BIO 120 General Biology I	4		
%	ECO 210/211 Economics	3		
	Semester: Winter ____			
	EGR 390 Engrg Co-op II (SWS)	3		
	6th Semester: S/S ____			
	BIO 105 Enviro Science	3		
	EGR 365 Fluid Mechanics	4		
	BIO 215 General Ecology	4		
#	HNR Jr. Sem. _____	3		
4th Year	**Semester: Fall____**			
	EGR 490 Engrg Co-op III	3		
	EGR 463 Alt Energy Apps	4		
	7th Semester: Winter ____			
^	EGR 485 Sr Project I	1		
~	EGR 437 Enviro Engrg	3		
	CHM 230 Intro to Org Chem	4		
	GEO 360 Earth Resources	3		
	8th Semester: S/S ____			
^	EGR 486 Sr Project II	2		
$	HNR US _____	3		

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.

~ Course is only offered at Cornerstone University

$ 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.

@ Fulfills HNR Life Science

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 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.