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

(2018-19 Catalog) ***(MTH 110 Placement - 5 Year Program)*** **Minor:** _____

Student Name: _____

Student ID#: G

		Credits	Grade	Semester Completed
1st Year	**1st Semester: Fall____**			
	MTH 110 Algebra	4		
*	WRT 150 Writ Strategies	4		
^	EGR 100 Intro to Engrg	1		
	GE - Arts _____	3		
	GE - HP _____	3		
	2nd Semester: Winter ____			
	MTH 124 Functions & Models	5		
*	CHM 115 Chemistry I	4		
•	GE-SBS/US _____	3		
	Semester: S/S ____			
	_____	__		
	_____	__		
	_____	__		
2nd Year	**3rd Semester: Fall____**			
*	MTH 201 Calculus I	4		
*	EGR 106 Intro to Egr Design I	3		
%	ECO 210/211 Economics	3		
@	GE - P & L (PHI 102 Ethics)	3		
	4th Semester: Winter ____			
*	MTH 202 Calculus II	4		
*	EGR 107 Intro to Egr Design II	3		
*	PHY 230 Physics I	5		
*	STA 220 Statistical Modeling	2		
*	EGR 220 Measure/Data Analysis	1		
	Semester: S/S ____			
	_____	__		
	_____	__		
	_____	__		
3rd Year	**5th Semester: Fall____**			
*	MTH 203 Calculus III	4		
+ *	PHY 234/1 Physics II	4/5		
*	EGR 209 Mech & Mach	4		
*	EGR 226 MicroCtrl Pgm Appl	4		
*	EGR 289 Engrg Co-op Prep	1		
	6th 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		
4th Year	**7th Semester: Fall____**			
	EGR 346 Mechatronic Sys.	4		
	EGR 360 Thermodynamics	4		
$	BIO 120 General Biology I	4		
	Semester: Winter ____			
	EGR 390 Engrg Co-op II	3		
	8th Semester: S/S ____			
	BIO 105 Enviro Science	3		
	EGR 365 Fluid Mechanics	4		
	BIO 215 General Ecology	4		
5th Year	**Semester: Fall____**			
	EGR 490 Engrg Co-op III	3		
	EGR 463 Alt Energy Apps	4		
	9th 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		
	GE - Issue _____	3		
	10th Semester: S/S ____			
	EGR 486 Sr Project II	2		
#	GE - GP _____	3		

PCEC Student Services: (616)331-6025

* Engineering Foundation course
\+ Students may enroll in PHY 231 instead of PHY 234
^ Not required, but strongly recommended for success
• Consider taking a course that doubles as SBS and US (See Gen Ed guide for selections)
\# Consider taking a course that doubles as GP and Issue (See Gen Ed guide for selections)
@ An ethics course is required in the engineering program (PHI 102 or another ethics course in General Education).
% ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS Gen Ed requirement.
~ Course is only offered at Cornerstone University
$ BIO 120 is required for major and fulfills the Life Sciences Gen Ed requirement.
& Required for major and also fulfills one Issues 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 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.