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

(2018-19 Catalog) ***(MTH 124 Placement - 5 Year Program)*** **Minor:** _____ **Student ID#:** G

		1st Semester: Fall____	Credits	Grade	Semester Completed	2nd Semester: Winter ____	Credits	Grade	Semester Completed	Semester: S/S ____	Credits	Grade	Semester Completed
1st Year		MTH 124 Functions & Models	5			* MTH 201 Calculus I	4						
	*	WRT 150 Writ Strategies	4			* CHM 115 Chemistry I	4						
	=	EGR 100 Intro to Engrg	1			* EGR 106 Intro to Egr Design I	3						
	=	EGR 180 Intro Egr Prob Solv	3			GE - Arts _____	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 202 Calculus II	4			* MTH 203 Calculus III	4						
	*	EGR 107 Intro to Egr Design II	3			* STA 220 Statistical Modeling	2						
	@	GE - P & L (PHI 102 Ethics)	3			* EGR 220 Measure/Data Analysis	1						
	~	IDS 101 Inov & Prob Solving	2			* PHY 230 Physics I	5						
						GE - 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			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			* MTH 302 Lin Alg & DEQ	4						
4th Year		7th Semester: Fall____	Credits	Grade	Semester Completed	Semester: Winter ____	Credits	Grade	Semester Completed	8th Semester: S/S ____	Credits	Grade	Semester Completed
		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							# GE - GP _____	3		
	~	MDA 112 Design Drawing I	3							! LIB 310 Creativity	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		
	~	IDS 313 Thought & Design II	3			~ IDS 413 Thought & Design III	3			GE - HP _____	3		
						~ IDS 312 Human Innovation	3			% ECO 210/211 Economics	3		
						• GE - US _____	3			• GE-SBS _____	3		
						GE - Issue _____	3						

PCEC Student Services: (616)331-6025

* Engineering Foundation course
\+ Students may enroll in PHY 231 instead of PHY 234
• 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). Consider taking PHI 102 as an SWS.
% ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS Gen Ed 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
! LIB 310 fulfills an Issues requirement.
= Not required, strongly encouraged for student success. It is advised to take EGR 100 OR EGR 180

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