## Study Plan for B.S.E., <u>INTERDISCIPLINARY ENGINEERING</u> & Design and Innovation emphasis

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019-20 Catalog)	(MTH 110 Placement - 5 Year Program)	Minor:		:	Student ID#:				
	.≨ Semester		its		Semester		its		

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1st Year	1st Semester: Fall MTH 110 Algebra * WRT 150 Writ Strategies = EGR 100 Intro to Engrg GE - Arts GE - HP	4 4 1 3 3		Semester Completed	2nd Semester: Winter MTH 124 Functions & Models * CHM 115 Chemistry I • GE-SBS @ GE - P & L (PHI 102 Ethics)	5 4 3 3 3 3 2 Credits		 Semester: S/S	Credits	Grade	Semester Completed
2nd Year	* MTH 201 Calculus I  * EGR 106 Intro to Egr Design I  * ECO 210/211 Economics  ~ IDS 101 Inov & Prob Solving	Osediis 3 3 2		Semester Completed	* MTH 202 Calculus II  * EGR 107 Intro to Egr Design II  * PHY 230 Physics I  * STA 220 Statistical Modeling  * EGR 220 Measure/Data Analysis	3 5 2 1	Grade (	 Semester: S/S	Credits	Grade	Semester Completed
3rd Year	* MTH 203 Calculus III  * PHY 234/1 Physics II  * EGR 209 Mech & Mach  * EGR 226 MicroCtrl Pgm Appl  * EGR 289 Engrg Co-op Prep	4		Semester Completed	* MTH 302 Lin Alg & DEQ  * EGR 309 Machine Design I  * EGR 250 Materials Science  * EGR 214 Circuit Analysis I	single 4 4 4 4 4 4		 Semester: S/S EGR 290 Engrg Co-op I	© Credits	Grade	Semester Completed
4th Year	7th Semester: Fall EGR 301 Fund Prod Des EGR 345 Dyn Sys Mod EGR 367 Mfg Processes ~ MDA 112 Design Drawing I	Credits		Semester Completed	Semester: Winter EGR 390 Engrg Co-op II (SWS) LIB 323 Design Thinking	ω credits		8th Semester: S/S EGR 362 Thermo-Fluid Sys ^ IE Elec GE - LS ! LIB 310 Creativity	4 3/4 3 3		Semester Completed
5th Year	Semester: Fall EGR 490 Engrg Co-op III ~ IDS 313 Thought & Design II	3 3 Credis	Grade	Semester Completed	9th Semester: Winter EGR	2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Grade C	10th Semester: S/S EGR	2 Credits	Grade	Semester Completed

## 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.

## 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