

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

(2018-19 Catalog)

(MTH 201 Placement - 5 Year Program)

Minor: \_\_\_\_\_

Student Name: \_\_\_\_\_

 Student ID#: G

1st Year	<b>1st Semester: Fall</b> _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	<b>2nd Semester: Winter</b> _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	<b>Semester: S/S</b> _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>
	* MTH 201	Calculus I	4	_____	_____		* MTH 202	Calculus II	4	_____	_____		_____	_____	_____	_____	_____	_____
	* WRT 150	Writ Strategies	4	_____	_____		* CHM 115	Chemistry I	4	_____	_____		_____	_____	_____	_____	_____	_____
	* EGR 106	Intro to Egr Design I	3	_____	_____		* EGR 107	Intro to Egr Design II	3	_____	_____		_____	_____	_____	_____	_____	_____
	GE - Hist	_____	3	_____	_____		GE - Arts	_____	3	_____	_____		_____	_____	_____	_____	_____	_____
2nd Year	<b>3rd Semester: Fall</b> _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	<b>4th Semester: Winter</b> _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	<b>Semester: S/S</b> _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>
	* MTH 203	Calculus III	4	_____	_____		* MTH 302	Lin Alg & DEQ	4	_____	_____		_____	_____	_____	_____	_____	_____
	* STA 220	Engrg Statistics	2	_____	_____		% ECO 210/211	Economics	3	_____	_____		_____	_____	_____	_____	_____	_____
	* EGR 220	Engrg Stats Lab	1	_____	_____		* PHY 230	Physics I	5	_____	_____		_____	_____	_____	_____	_____	_____
	• GE-SBS	_____	3	_____	_____		GE - LS	_____	3	_____	_____		_____	_____	_____	_____	_____	_____
	@ GE - P & L (PHI 102 Ethics)	_____	3	_____	_____								_____	_____	_____	_____	_____	_____
3rd Year	<b>5th Semester: Fall</b> _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	<b>6th Semester: Winter</b> _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	<b>Semester: S/S</b> _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>
	+ * 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	_____	_____							
	~ IDS 101	Inov & Prob Solving	2	_____	_____													
	* EGR 289	Engrg Co-op Prep	1	_____	_____													
4th Year	<b>7th Semester: Fall</b> _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	<b>Semester: Winter</b> _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	<b>8th Semester: S/S</b> _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>
	EGR 301	Fund Prod Des	4	_____	_____		EGR 390	Engrg Co-op II (SWS)	3	_____	_____		♦ EGR 362	Thermo-Fluid Sy	4	_____	_____	_____
	EGR 345	Dyn Sys Mod	4	_____	_____		LIB 323	Design Thinking	3	_____	_____		^ IE Elec	_____	3/4	_____	_____	_____
	EGR 367	Mfg Processes	4	_____	_____								# GE - US	_____	3	_____	_____	_____
	~ MDA 112	Design Drawing I	3	_____	_____								! LIB 310	Creativity	3	_____	_____	_____
5th Year	<b>Semester: Fall</b> _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	<b>9th Semester: Winter</b> _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>	<b>10th Semester: S/S</b> _____			<i>Credits</i>	<i>Grade</i>	<i>Semester Completed</i>
	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 - Issue	_____	3	_____	_____	_____
							~ IDS 312	Human Innovation	3	_____	_____							
							# GE - GP	_____	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 362 or EGR 360 - Thermodynamics (Fall)
- 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