

**Study Plan for B.S.E., MECHANICAL ENGINEERING Major**
**(2019-20 Catalog) (MTH 110 Placement - 5 Year Program) Minor:** \_\_\_\_\_

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

**Student ID#:** G

<b>1st Year</b>	<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	110	Algebra	4	_____	_____	MTH	124	Functions and Models	5	_____	_____	_____	_____	_____	_____	_____	_____
	* WRT	150	Writ Strategies	4	_____	_____	* CHM	115	Chemistry I	4	_____	_____	_____	_____	_____	_____	_____	_____
	^ EGR	100	Intro to Engrg	1	_____	_____	GE - LS	_____	_____	3	_____	_____	_____	_____	_____	_____	_____	_____
	GE - Arts	_____	_____	3	_____	_____	• GE-SBS	_____	_____	3	_____	_____	_____	_____	_____	_____	_____	_____
	GE - Hist	_____	_____	3	_____	_____												
<b>2nd Year</b>	<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	201	Calculus I	4	_____	_____	* MTH	202	Calculus II	4	_____	_____	_____	_____	_____	_____	_____	_____
	* EGR	106	Intro to Egr Design I	3	_____	_____	* EGR	107	Intro to Egr Design II	3	_____	_____	_____	_____	_____	_____	_____	_____
	% ECO	210/211	Economics	3	_____	_____	* PHY	230	Physics I	5	_____	_____	_____	_____	_____	_____	_____	_____
	@ GE - P & L (PHI 102 Ethics)			3	_____	_____	* STA	220	Statistical Modeling	2	_____	_____	_____	_____	_____	_____	_____	_____
							* EGR	220	Measure/Data Analysis	1	_____	_____	_____	_____	_____	_____	_____	_____
<b>3rd Year</b>	<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>
	* MTH	203	Calculus III	4	_____	_____	* MTH	302	Lin Alg & DEQ	4	_____	_____	EGR	290	Engrg Co-op I	3	_____	_____
	+ * PHY	234/1	Physics II	4/5	_____	_____	* EGR	309	Mach Design I	4	_____	_____	_____	_____	_____	_____	_____	_____
	* EGR	209	Mech & Mach	4	_____	_____	* EGR	312	Dynamics	3	_____	_____	_____	_____	_____	_____	_____	_____
	* EGR	226	MicroCtrl Pgm Appl	4	_____	_____	* EGR	214	Circuit Analysis I	4	_____	_____	_____	_____	_____	_____	_____	_____
	* EGR	289	Engrg Co-op Prep	1	_____	_____												
<b>4th Year</b>	<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	250	Mat Sci & Engrg	4	_____	_____	EGR	390	Engrg Co-op II (sws)	3	_____	_____	EGR	365	Fluid Mechanics	4	_____	_____
	EGR	346	Mechatronics & Ctrl	4	_____	_____							EGR	409	Mach Design II	4	_____	_____
	EGR	360	Thermodynamics	4	_____	_____							EGR	329	FEA	3	_____	_____
													GE - Issue	_____	3	_____	_____	_____
<b>5th Year</b>	<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	468	Heat Transfer	4	_____	_____	EGR	486	Sr Project II	2	_____	_____
	# GE - GP	_____	_____	3	_____	_____	ME	Elec	_____	4	_____	_____	ME	Elec	_____	4	_____	_____
							ME	Elec	_____	4	_____	_____	GE - Issue	_____	3	_____	_____	_____
							EGR	485	Sr Project I	1	_____	_____	GE - US	_____	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). Consider taking PHI 102 as an SWS
- % ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS Gen Ed 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 in each Foundation 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.