

**Study Plan for B.S.E., MECHANICAL ENGINEERING Major**

(2018-19 Catalog) (MTH 124 (180) Placement - 5 Year Program) Minor: \_\_\_\_\_

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

 Student ID#: G

1st Year	1st Semester: Fall _____						Credits	Grade	Semester Completed	2nd Semester: Winter _____						Credits	Grade	Semester Completed	Semester: S/S _____						Credits	Grade	Semester Completed
	MTH	124	Functions & Models	5	_____	_____				*	MTH	201	Calculus I	4	_____	_____				_____	_____	_____			_____		
	*	WRT	150	Writ Strategies	4	_____	_____			*	EGR	106	Intro to Egr Design I	3	_____	_____				_____	_____	_____			_____		
	^	EGR	180	Intro Engrg Prob Sol	3	_____	_____			*	CHM	115	Chemistry I	4	_____	_____				_____	_____	_____			_____		
		GE - Arts	_____	3	_____	_____					GE - LS	_____	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	_____	_____			*	PHY	230	Physics I	5	_____	_____				_____	_____	_____			_____		
	%	ECO	210/211	Economics	3	_____	_____			*	STA	220	Engrg Statistics	2	_____	_____				_____	_____	_____			_____		
	•	GE-SBS	_____	3	_____	_____				*	EGR	220	Engrg Stats Lab	1	_____	_____				_____	_____	_____			_____		
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	_____	_____			*	MTH	302	Lin Alg & DEQ	4	_____	_____				EGR	290	Engrg Co-op I	3	_____	_____	
		*	EGR	209	Mech & Mach	4	_____	_____			*	EGR	309	Mach Design I	4	_____	_____				_____	_____	_____			_____	
		*	EGR	226	MicroCtrl Pgm Appl	4	_____	_____			*	EGR	312	Dynamics	3	_____	_____				_____	_____	_____			_____	
		*	EGR	289	Engrg Co-op Prep	1	_____	_____			*	EGR	214	Circuit Analysis I	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	250	Mat Sci & Engrg	4	_____	_____				EGR	390	Engrg Co-op II (sws)	3	_____	_____				EGR	365	Fluid Mechanics	4	_____	_____			
	EGR	346	Mechatronics & Ctrl	4	_____	_____				GE - Issue	_____	3	_____	_____				EGR	409	Mach Design II	4	_____	_____				
	EGR	360	Thermodynamics	4	_____	_____												EGR	329	FEA	3	_____	_____				
	#	GE - GP	_____	3	_____	_____												@ GE - P & L (PHI 102 Ethics)	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	468	Heat Transfer	4	_____	_____				EGR	486	Sr Project II	2	_____	_____			
	_____	_____	_____	_____	_____	_____				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. Students are advised to take either EGR 100 or EGR 180.
- Consider taking a course that doubles as SBS and US (See Gen Ed guide for selections)
- # Consider taking a course that doubles as WP 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.