

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

(2017-18 Catalog) (MTH 110 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	110	Algebra	4						\$ MTH	122	College Algebra	3														
	*	WRT	150	Writ Strategies	4					MTH	123	Trigonometry	3														
	^	EGR	100	Intro to Engrg	1					*	CHM	115	Chemistry I	4													
		GE - Arts			3					•	GE-SBS			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	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	Engrg Statistics	2													
3rd Year	5th Semester: Fall_____						Credits	Grade	Semester Completed	6th Semester: Winter _____						Credits	Grade	Semester Completed	Semester: S/S _____						Credits	Grade	Semester Completed
	*	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													
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				
	# ^	EGR	306	Urban Env & Sust	3															GE - LS		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				
	#	GE - WP		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 elect to take MTH 124 (180) for 5 cr instead of MTH 122 and MTH 123
- + 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 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.