

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

(2018-19 Catalog)

(MTH 123 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	123	Trigonometry	3						* MTH	201	Calculus I	4															
	* WRT	150	Writ Strategies	4						* CHM	115	Chemistry I	4															
	^ EGR	180	Intro Egr Prob Solv	3						* EGR	106	Intro to Egr Design I	3															
	GE - Hist			3			GE - Arts			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						* STA	220	Engrg Statistics	2															
	@ GE - P & L (PHI 102 Ethics)			3						* EGR	220	Engrg Stats Lab	1															
	• GE-SBS			3			* PHY 230 Physics I			5																		
							# GE - GP			3																		
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	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	346	Mechatronics & Ctrl	4															EGR	365	Fluid Mechanics	4						
	EGR	360	Thermodynamics	4															EGR	409	Mach Design II	4						
	GE - Issue			3									EGR	329	FEA	3												
													% ECO	210/211	Economics	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															
	GE - Issue			3						ME	Elec		4							ME	Elec		4					
										ME	Elec		4							GE - LS		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.