

Study Plan for B.S.E., MECHANICAL ENGINEERING Major
(2016-17 Catalog) (MTH 110 Placement - 5 Year Program) Minor: _____

Student Name: _____

Student ID#: G

1st Year	1st Semester: Fall _____						2nd Semester: Winter _____						Semester: S/S _____			
				Credits	Grade	Semester Completed				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	_____	_____	^ EGR	180	Intro Engrg Prob Solv	3	_____	_____	_____			
GE - Hist	_____	_____	3	_____	_____											
2nd Year	3rd Semester: Fall _____						4th Semester: Winter _____						Semester: S/S _____			
				Credits	Grade	Semester Completed				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	_____	_____				
* EGR	220	Engrg Stats Lab	1	_____	_____											
3rd Year	5th Semester: Fall _____						6th Semester: Winter _____						Semester: S/S _____			
				Credits	Grade	Semester Completed				Credits	Grade	Semester Completed				
	* MTH	203	Calculus III	4	_____	_____	* MTH	302	Lin Alg & DEQ	4	_____	_____	_____			
	+ * PHY	234/1	Physics II	4/5	_____	_____	* EGR	309	Mach Design I	4	_____	_____	EGR 290 Engrg Co-op I 3 _____			
	* EGR	209	Mech & Mach	4	_____	_____	* EGR	312	Dynamics	3	_____	_____	_____			
	* EGR	226	Intro Digital Sys	4	_____	_____	* EGR	214	Circuit Analysis I	4	_____	_____				
* EGR	289	Engrg Co-op Prep	1	_____	_____											
4th Year	7th Semester: Fall _____						Semester: Winter _____						8th Semester: S/S _____			
				Credits	Grade	Semester Completed				Credits	Grade	Semester Completed				
	EGR	250	Mat Sci & Engrg	4	_____	_____	EGR	390	Engrg Co-op II	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-SBS (SOC 105 or LIB 201)___ 3 _____			
5th Year	Semester: Fall _____						9th Semester: Winter _____						10th Semester: S/S _____			
				Credits	Grade	Semester Completed				Credits	Grade	Semester Completed				
	EGR	490	Engrg Co-op III	3	_____	_____	EGR	468	Heat Transfer	4	_____	_____	EGR 486 Sr Project II 2 _____			
	# GE - World Persp (ANT 340)			3	_____	_____	ME	Elec	_____	4	_____	_____	ME Elec _____ 4 _____			
							ME	Elec	_____	4	_____	_____	GE - LS _____ 3 _____			
							EGR	485	Sr Project I	1	_____	_____	GE - Issue _____ 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
- SOC 105 recommended (covers SBS and US)
- # Issues courses as well. Prereq for ANT 340 is another WP or US Diversity course.
- @ 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 GenEd 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.