

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

(2015-16 Catalog) (MTH 201 Placement with Honors (Technology & War in the West) - 5 Year Program  
Option 3: 12 credits over four semesters)

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

Student ID#: G

1st Year	1st Semester: Fall _____						2nd Semester: Winter _____						Semester: S/S _____			
				Credits	Grade	Semester Completed				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	_____	_____		_____	_____	_____
	* CHM	115	Chemistry I	4	_____	_____	* STA	220	Engrg Statistics	2	_____	_____		_____	_____	_____
	HNR	280	Live Learn Lead	3	_____	_____	* EGR	220	Engrg Stats Lab	1	_____	_____		_____	_____	_____
					_____	_____	HNR	280	Tech & War in West	3	_____	_____		_____	_____	_____
2nd Year	3rd Semester: Fall _____						4th Semester: Winter _____						Semester: S/S _____			
				Credits	Grade	Semester Completed				Credits	Grade	Semester Completed		Credits	Grade	Semester Completed
	* MTH	203	Calculus III	4	_____	_____	* MTH	302	Lin Alg & DEQ	4	_____	_____		_____	_____	_____
	% ECO	210/211	Economics (H)	3	_____	_____	* PHY	230	Physics I	5	_____	_____		_____	_____	_____
				3	_____	_____	HNR		SBS & US Div	3	_____	_____		_____	_____	_____
	HNR		Arts (SWS)	3	_____	_____					_____	_____		_____	_____	_____
3rd Year	5th Semester: Fall _____						6th Semester: Winter _____						Semester: S/S _____			
				Credits	Grade	Semester Completed				Credits	Grade	Semester Completed		Credits	Grade	Semester Completed
	+ * PHY	234/1	Physics II	4/5	_____	_____	* EGR	309	Mach Design I	4	_____	_____	EGR	290	Engrg Co-op I	3
	* EGR	226	Intro Digital Sys	4	_____	_____	* EGR	312	Dynamics	3	_____	_____		_____	_____	_____
	* EGR	209	Mech & Mach	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		Credits	Grade	Semester Completed
	EGR	250	Mat Sci & Engrg	4	_____	_____	EGR	390	Engrg Co-op II	3	_____	_____	EGR	365	Fluid Mechanics	4
	EGR	345	Dyn Sys Mod	4	_____	_____					_____	_____	EGR	409	Mach Design II	4
	EGR	360	Thermodynamics	4	_____	_____					_____	_____	EGR	329	FEA	3
					_____	_____					_____	_____	# GE - LS (BIO 105)	_____	3	_____
5th Year	Semester: Fall _____						9th Semester: Winter _____						10th Semester: S/S _____			
				Credits	Grade	Semester Completed				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
					_____	_____	ME	Elec	_____	4	_____	_____	ME	Elec	_____	4
					_____	_____	ME	Elec	_____	4	_____	_____				
					_____	_____	EGR	485	Sr Project I	1	_____	_____				

PCEC Student Services: (616)331-6025

- \* Engineering Foundation course
- + Students may enroll in PHY 231 instead of PHY 234
- # Issues courses as well.
- % ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS GenEd requirement.

**Junior Seminar** : can be taken when students have >=45 credits. Online seminars offered each semester.

**If students do not have Advanced Placement credit applicable to the engineering curriculum, e.g., Calculus, Physics, and/or Chemistry, it is strongly recommended that they consider a 5-year plan.**

## 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**

- 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.