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

Student Name: _____

(2016-17 Catalog) ***(MTH 124 (180) Placement - 5 Year Program)*** **Minor:** _____

Student ID#: G

	1st Semester: Fall____	Credits	Grade	Semester Completed	2nd Semester: Winter ____	Credits	Grade	Semester Completed	Semester: S/S ____	Credits	Grade	Semester Completed
1st Year	MTH 180 Functions & Models	5			* MTH 123 Trigonometry	3						
	* WRT 150 Writ Strategies	4			* CHM 115 Chemistry I	4						
	^ EGR 100 Intro to Engrg	1			GE - Hist _____	3						
	GE - Arts _____	3			GE - LS _____	3						
	^ EGR 180 Intro Engrg Prob Solv	3										
2nd Year	**3rd Semester: Fall____**				**4th Semester: Winter ____**				**Semester: S/S ____**			
	* 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 - World Persp (ANT 340)	3			* STA 220 Engrg Statistics	2						
					* EGR 220 Engrg Stats Lab	1						
3rd Year	**5th Semester: Fall____**				**6th Semester: Winter ____**				**Semester: S/S ____**			
	* 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 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 ____**			
	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		
	• GE-SBS (SOC 105 or LIB 201)_____	3							@ GE - P & L (PHI 102 Ethics)	3		
5th Year	**Semester: Fall____**				**9th Semester: Winter ____**				**10th Semester: S/S ____**			
	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						

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

• 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.