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

Student Name: _____

(2019-20 Catalog) ***(MTH 123 Placement - 5 Year Program)*** **Minor:** _____

Student ID#: G

	1st Semester: Fall____	Credits	Grade	Semester Completed
1st Year	MTH 123 Trigonometry	3		
	* WRT 150 Writ Strategies	4		
	^ EGR 180 Intro Egr Prob Solv	3		
	GE - Hist _____	3		

	2nd Semester: Winter ____	Credits	Grade	Semester Completed
	* MTH 201 Calculus I	4		
	* CHM 115 Chemistry I	4		
	* EGR 106 Intro to Egr Design I	3		
	GE - Arts _____	3		

	Semester: S/S ____	Credits	Grade	Semester Completed
	_____	__		
	_____	__		
	_____	__		

	3rd Semester: Fall____	Credits	Grade	Semester Completed
2nd Year	* MTH 202 Calculus II	4		
	* EGR 107 Intro to Egr Design II	3		
	@ GE - P & L (PHI 102 Ethics)	3		
	• GE-SBS _____	3		

	4th Semester: Winter ____	Credits	Grade	Semester Completed
	* MTH 203 Calculus III	4		
	* STA 220 Statistical Modeling	2		
	* EGR 220 Measure/Data Analysis	1		
	* PHY 230 Physics I	5		
	% ECO 210/211 Economics	3		

	Semester: S/S ____	Credits	Grade	Semester Completed
	_____	__		
	_____	__		
	_____	__		

	5th Semester: Fall____	Credits	Grade	Semester Completed
3rd Year	+ * PHY 234/1 Physics II	4/5		
	* EGR 209 Mech & Mach	4		
	* EGR 226 MicroCtrl Pgm Appl	4		
	* EGR 289 Engrg Co-op Prep	1		

	6th Semester: Winter ____	Credits	Grade	Semester Completed
	* MTH 302 Lin Alg & DEQ	4		
	* EGR 309 Mach Design I	4		
	* EGR 312 Dynamics	3		
	* EGR 214 Circuit Analysis I	4		

	Semester: S/S ____	Credits	Grade	Semester Completed
	EGR 290 Engrg Co-op I	3		
	_____	__		

	7th Semester: Fall____	Credits	Grade	Semester Completed
4th Year	EGR 250 Mat Sci & Engrg	4		
	EGR 346 Mechatronics & Ctrl	4		
	EGR 360 Thermodynamics	4		
	GE - Issue _____	3		

	Semester: Winter ____	Credits	Grade	Semester Completed
	EGR 390 Engrg Co-op II (SWS)	3		
	_____	__		

	8th Semester: S/S ____	Credits	Grade	Semester Completed
	EGR 365 Fluid Mechanics	4		
	EGR 409 Mach Design II	4		
	EGR 329 FEA	3		
	# GE - GP _____	3		

	Semester: Fall____	Credits	Grade	Semester Completed
5th Year	EGR 490 Engrg Co-op III	3		
	GE - Issue _____	3		

	9th Semester: Winter ____	Credits	Grade	Semester Completed
	EGR 468 Heat Transfer	4		
	ME Elec _____	4		
	ME Elec _____	4		
	EGR 485 Sr Project I	1		

	10th Semester: S/S ____	Credits	Grade	Semester Completed
	EGR 486 Sr Project II	2		
	ME Elec _____	4		
	GE - LS _____	3		
	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 GP 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.