Study Plan for B.S.E., *INTERDISCIPLINARY ENGINEERING* & Biomechanics emphasis

(2019-20 Catalog) ***(MTH 110 Placement - 5 Year Program)***

Student Name: _____

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 110 Algebra	4			MTH 124 Precalc: Ftns & Models	5						
	* WRT 150 Writ Strategies	4			* CHM 115 Chemistry I	4						
	@ GE - P & L (PHI 102 Ethics)	3			GE - Hist _____	3						
	^ EGR 100 Intro to EGR	1										
	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 201 Calculus I	4			* MTH 202 Calculus II	4			* EGR 226 MicroCtrl Pgm Apl	4		
	* EGR 106 Intro to Egr Design I	3			* PHY 230 Physics I	5						
	! GE - LS (BMS 202)	4			* STA 220 Statistical Modeling	2						
	# GE - GP _____	3			* EGR 220 Measure/Data Analysis	1						
					* EGR 107 Intro to Egr Design II	3						
3rd Year	**5th Semester: Fall____**	**Credits**	**Grade**	**Semester Completed**	**6th Semester: Winter ____**	**Credits**	**Grade**	**Semester Completed**	**Semester: S/S ____**	**Credits**	**Grade**	**Semester Completed**
	* 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 214 Circuit Analysis I	4			* EGR 250 Mat Sci & Engrg	4						
	* EGR 209 Mech & Mach	4			$ EGR 312 Dynamics	3						
	* EGR 289 Engrg Co-op Prep	1										
4th Year	**7th Semester: Fall____**	**Credits**	**Grade**	**Semester Completed**	**Semester: Winter ____**	**Credits**	**Grade**	**Semester Completed**	**8th Semester: S/S ____**	**Credits**	**Grade**	**Semester Completed**
	EGR 346 Mechatronics & Ctrl	4			EGR 390 Engrg Co-op II (SWS)	3			EGR 365 Fluid Mechanics	4		
	EGR 360 Thermodynamics	4			EGR 447 Mech/Human Motion	3			CHM 230 Org & Biochem	4		
	GE - Issue _____	3							• GE-SBS _____	3		
	GE - Issue _____	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 485 Sr Project I	1			EGR 486 Sr Project II	2		
	EGR 453 Biomedical Materials	3			EGR 403 Med Dev Design	3						
					EGR 435 Math Model Phys	3						
					EGR 465 Comp Fluid Dyn	3						
					• GE - US _____	3						

PCEC Student Services: (616)331-6025

^ Not required, but strongly recommended for success.
* Engineering Foundation course
+ Students may enroll in PHY 231 instead of PHY 234
• 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)
Consider taking PHI 102 as an SWS
% ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS GenEd requirement.
$ Pre-requisite for required upper-level coursework
! Required for major

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