

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

(2019-20 Catalog) (MTH 201 Placement - 4 Year Program)

Student Name: _____

Student ID#: G

	1st Semester: Fall _____				2nd Semester: Winter _____				Semester: S/S _____						
			Credits	Grade	Semester Completed			Credits	Grade	Semester Completed		Credits	Grade	Semester Completed	
1st Year	* MTH 201	Calculus I	4	_____	_____	* MTH 202	Calculus II	4	_____	_____	% ECO	210/211 Economics	3	_____	_____
	* WRT 150	Writ Strategies	4	_____	_____	* PHY 230	Physics I	5	_____	_____					
	* EGR 106	Intro to Egr Design I	3	_____	_____	* EGR 107	Intro to Egr Design II	3	_____	_____					
	* CHM 115	Chemistry I	4	_____	_____	* STA 220	Statistical Modeling	2	_____	_____					
						* EGR 220	Measure/Data Analysis	1	_____	_____					
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	_____	_____	EGR 290	Engrg Co-op I	3	_____	_____
	+ * PHY 234/1	Physics II	4/5	_____	_____	* EGR 309	Mach Design I	4	_____	_____	\$ EGR 312	Dynamics	3	_____	_____
	* EGR 226	MicroCtrl Pgm Appl	4	_____	_____	* EGR 250	Mat Sci & Engrg	4	_____	_____					
* EGR 209	Mech & Mach	4	_____	_____	* EGR 214	Circuit Analysis I	4	_____	_____						
* EGR 289	Engrg Co-op Prep	1	_____	_____											
3rd Year	5th Semester: Fall _____				Semester: Winter _____				6th Semester: S/S _____						
			Credits	Grade	Semester Completed			Credits	Grade	Semester Completed		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 - LS (BMS 202)		4	_____	_____						• GE-SBS		3	_____	_____	
GE - Issue		3	_____	_____						@ GE - P & L (PHI 102 Ethics)		3	_____	_____	
4th Year	Semester: Fall _____				7th Semester: Winter _____				8th Semester: S/S _____						
			Credits	Grade	Semester Completed			Credits	Grade	Semester Completed		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	_____	_____	GE - Arts		3	_____	_____
					EGR 435	Math Model Phys	3	_____	_____	# GE - GP		3	_____	_____	
					EGR 465	Comp Fluid Dyn	3	_____	_____	GE - Hist		3	_____	_____	
					GE - US		3	_____	_____	GE - Issue		3	_____	_____	

PCEC Student Services: (616)331-6025

- * 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