

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

(2018-19 Catalog) (MTH 122 Placement - 5 Year Program)

Student Name: _____

Student ID#: G

Year	Semester: Fall _____			Semester: Winter _____			Semester: S/S _____		
	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed	Credits	Grade	Semester Completed
1st Year	MTH 122 College Algebra	3	_____	MTH 123 Trigonometry	3	_____			
	* WRT 150 Write Strategies	4	_____	* CHM 115 Chemistry I	4	_____			
	@ GE - P & L (PHI 102 Ethics)	3	_____	GE - Hist _____	3	_____			
	^ EGR 100 Intro to EGR	1	_____	# GE - GP _____	3	_____			
	GE - Arts _____	3	_____						
2nd Year	3rd Semester: Fall _____	Credits	Grade	Semester Completed	4th Semester: Winter _____	Credits	Grade	Semester Completed	Semester: S/S _____
	* MTH 201 Calculus I	4	_____		* MTH 202 Calculus II	4	_____		* EGR 226 MicroCtrl Pgm App
	* EGR 106 Intro to Egr Design I	3	_____		* PHY 230 Physics I	5	_____		
	! GE - LS (BMS 202)	4	_____		* STA 220 Statistical Modeling	2	_____		
					* EGR 220 Measure/Data Analysis	1	_____		
3rd Year	5th Semester: Fall _____	Credits	Grade	Semester Completed	6th Semester: Winter _____	Credits	Grade	Semester Completed	Semester: S/S _____
	* MTH 203 Calculus III	4	_____		* MTH 302 Lin Alg & DEQ	4	_____		EGR 290 Engrg Co-op I
	+ * 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	_____		
4th Year	7th Semester: Fall _____	Credits	Grade	Semester Completed	Semester: Winter _____	Credits	Grade	Semester Completed	8th Semester: S/S _____
	EGR 346 Mechatronics & Ctrl	4	_____		EGR 390 Engrg Co-op II (SWS)	3	_____		EGR 365 Fluid Mechanics
	EGR 360 Thermodynamics	4	_____		EGR 447 Mech/Human Motion	3	_____		CHM 230 Org & Biochem
	GE - Issue _____	3	_____						• GE-SBS _____
	GE - Issue _____	3	_____						% ECO 210/211 Economics
5th Year	Semester: Fall _____	Credits	Grade	Semester Completed	9th Semester: Winter _____	Credits	Grade	Semester Completed	10th Semester: S/S _____
	EGR 490 Engrg Co-op III	3	_____		EGR 485 Sr Project I	1	_____		EGR 486 Sr Project II
	EGR 453 Biomedical Materials	3	_____		EGR 403 Med Dev Design	3	_____		
					EGR 435 Math Model Phys	3	_____		
					EGR 465 Comp Fluid Dyn	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