

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

(2019-20 Catalog) (MTH 122 Placement - 5 Year Program)

Student Name: \_\_\_\_\_

Student ID#: G

Year	1st Semester: Fall _____				2nd Semester: Winter _____				Semester: S/S _____			
	Credits	Grade	Semester Completed	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	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 - GP	_____	3	_____				
	GE - Arts	_____	3	_____								
2nd Year	3rd Semester: Fall _____				4th Semester: Winter _____				Semester: S/S _____			
	* MTH 201	Calculus I	4	_____	* MTH 202	Calculus II	4	_____	* EGR 226	MicroCtrl Pgm Appt	4	_____
	* 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 _____				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 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 _____				Semester: Winter _____				8th Semester: S/S _____			
	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 _____				9th Semester: Winter _____				10th Semester: S/S _____			
	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	_____				

**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