

Study Plan for B.S.E., INTERDISCIPLINARY ENGINEERING Major--Mechatronics Emphasis

Student Name: _____

(2018-19 Catalog)

(MTH 201 Placement - 5 Year Program)

Student ID#: _____

	1st Semester: Fall	Credits	Grade	Semester Completed	2nd Semester: Winter	Credits	Grade	Semester Completed	Semester: S/S	Credits	Grade	Semester Completed
1st Year	* MTH 201	4	_____	_____	* MTH 202	4	_____	_____	_____	_____	_____	_____
	* WRT 150	4	_____	_____	* CHM 115	4	_____	_____	_____	_____	_____	_____
	* EGR 106	3	_____	_____	* EGR 107	3	_____	_____	_____	_____	_____	_____
	GE HP	3	_____	_____	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 203	4	_____	_____	* MTH 302	4	_____	_____	_____	_____	_____	_____
	* STA 220	2	_____	_____	* PHY 230	5	_____	_____	_____	_____	_____	_____
	* EGR 220	1	_____	_____	@ GE P & L	3	_____	_____	_____	_____	_____	_____
	* GE SBS/US	3	_____	_____	PHI 102 - Ethics	3	_____	_____	_____	_____	_____	_____
% ECO 210 or 211	3	_____	_____	Micro or Macroeconomics	3	_____	_____	_____	_____	_____	_____	_____
3rd Year	5th Semester: Fall	Credits	Grade	Semester Completed	6th Semester: Winter	Credits	Grade	Semester Completed	Semester: S/S	Credits	Grade	Semester Completed
	* PHY 234/1	4/5	_____	_____	* IE Track	3/4	_____	_____	EGR 290	3	_____	_____
	* EGR 214	4	_____	_____	* EGR 250	4	_____	_____	Enggr Co-op I	3	_____	_____
	* EGR 209	4	_____	_____	* IE Track	3/4	_____	_____	IE Track	3/4	_____	_____
* EGR 289	1	_____	_____	(Mechanical track takes foundation course EGR 226)				(Sensor track takes foundation course EGR 226)				
4th Year	7th Semester: Fall	Credits	Grade	Semester Completed	Semester: Winter	Credits	Grade	Semester Completed	8th Semester: S/S	Credits	Grade	Semester Completed
	EGR 314	4	_____	_____	EGR 390	3	_____	_____	EGR 445	4	_____	_____
	IE Track	4	_____	_____	EGR 312	3	_____	_____	Robotics Systems	4	_____	_____
EGR 315	4	_____	_____	Enggr Co-op II				IE Track	4	_____	_____	
				Dynamics (Sensor Track ONLY)				EGR 455	4	_____	_____	
								Automatic Control	4	_____	_____	
								GE Issue	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	3	_____	_____	EGR 485	1	_____	_____	EGR 486	2	_____	_____
EGR 352	3	_____	_____	IE Track	4	_____	_____	IE Track Elective	4	_____	_____	
				GE Issue	3	_____	_____					
				GE LS	3	_____	_____					
				# GE GP	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 or another ethics course in General Education).
- % ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS GenEd requirement.

Mechanical Track:

- EGR 226 6th semester winter
- EGR 309 6th semester winter
- EGR 312 Spring/Summer Co-op
- EGR 346 7th semester fall
- EGR 409 8th semester spring/summer
- EGR 352 Fall co-op
- EGR 450 9th semester winter

Mechanical Track Electives:

- EGR 224 Intro to Digital Systems (4 credits)
- EGR 436 Embedded Systems Interface (4 credits)
- EGR 424 Design of Microcontroller Applications (4 credits)
- EGR 350 Vibrations (4 credits)

Sensor-Controls Track:

- EGR 224 6th semester winter
- EGR 223 6th semester winter
- EGR 226 Spring/Summer Co-op
- EGR 326 7th semester fall
- EGR 312 Winter Co-op
- EGR 309 8th semester spring/summer
- EGR 436 9th semester winter

Sensor-Controls Track Electives:

- EGR 409 Machine Design II (4 credits)
- EGR 450 Manufacturing Controls (4 credits)
- EGR 352 Dynamics and Kinematics of Machinery (4 credits)
- EGR 424 Design of Microcontroller Applications (4 credits)

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 MTH 202.