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

(2019-20 Catalog)

(MTH 201 Placement with Honors Alliance and Conflict - 4 year program)

Student Name:	
Student ID#:	

1st Year	* MTH 201 Calculus I CHM 115 Chemistry I HNR 260 HNR 201 Live, Learn, Lead	4	Semester Completed	2nd Semester: Winter * MTH	Semester Completed	Semester: S/S * EGR 107 Intro to Egr Design II * MTH 203 Calculus III * PHY 230 Physics I	3 4		
2nd Year	* STA 220 Statistical Modeling * EGR 220 Measure/Data Analysis + * PHY 234/1 Engrg Physics * EGR 214 Circuit Analysis I * EGR 209 Mech & Mach * EGR 289 Engrg Co-op Prep	1 4/5	Semester Completed	* MTH 302 Lin Alg & DEQ * IE Track EGR 309 or 223 * EGR 250 Materials Science * IE Track EGR 226 or 224 (Mechanical track takes foundation course EGR	Semester Completed	Semester: S/S EGR 290 Engrg Co-op I * IE Track EGR 312 or 226 (Sensor track takes foundation course EGR 22	3 3/4	Grade	Semester Completed
	74 C 4 F.H	si Grade	Semester Completed	Compostory Winter	Semester	6th Semester: S/S	edits	Grade	Semester Completed
3rd Year	Sth Semester: Fall EGR 314 Circuit Analysis II IE Track EGR 346 or 326 EGR 315 Electronic Circuits I HNR LS	4		Semester: Winter EGR 390 Engrg Co-op II EGR 312 Dynamics (Sensor Track ONLY)	\$ Grade Completed 3 3	EGR 445 Robotics Systems IE Track EGR 409 or 309 EGR 455 Automatic Control # HNR Jr. Sem	4 4 4		

PCEC Student Services: (616)331-6025

- * Engineering Foundation course
- + Students may enroll in PHY 231 instead of PHY 234
- # The Jr. Seminar fulfills one Issue and one SWS requirement.

HNR 312 will also fulfill US Diversity.

Junior Seminars can be taken when students have >= 45 credits. Online seminars offered each semester.

- % ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS Honors requirement.
- \$ HNR US Diversity requirement can be met with a Jr. Seminar (HNR 312).
- & Completion of EGR 485 and 486 will fulfill the HNR 499 Senior Project requirement.

Mechanical	Two les	Sensor-Controls Track:			
Mechanical	Track:	Sensor-Conti	TOIS TTACK:		
EGR 226	4th semester winter	EGR 224	4th semester winter		
EGR 309	4th semester winter	EGR 223	4th semester winter		
EGR 312	SR 312 Spring/Summer Co-op		Spring/Summer Co-op		
EGR 346	EGR 346 5th semester fall		5th semester fall		
EGR 409	6th semester spring/summer	EGR 312	Winter Co-op		
EGR 352	Fall co-op	EGR 309	6th semester spring/summer		
EGR 450	7th semester winter	EGR 436	7th semester winter		
Mechanical To	rack Electives:	Sensor-Controls Track Electives:			
EGR 224 Intro	to Digital Systems (4 credits)	EGR 409 Machine Design II (4 credits)			
EGR 436 Embe	edded Systems Interface (4 credits)	EGR 450 Manufacturing Controls (4 credits)			
EGR 424 Desig	gn of Microcontroller Applications (4 credits)	EGR 352 Dynamics and Kinematics of Machinery (4 credits)			
EGR 350 Vibra	itions (4 credits)	EGR 424 Design of Microcontroller Applications (Africa dits) ear Mechatronics 2014-15 Rev 6-14			

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.