	dy Plan for B.S.E., 9-20 Catalog)	<u>NTERDISCIPLINARY ENGINEERING</u> MajorMechatronics Emphasis (MTH 201 Placement with Honors Alliance and Conflict - 5 year program)								Student Name: Student ID#:				-
1st Year	1st Semester: 1 * MTH 201 * CHM 115 HNR 260 HNR 201	,	sipper Grand	Semester Completed		nester: Wir 202 106 261 262	nter Calculus II Intro to Egr Design I	4 – 3 – 3 –	Grade Co	Semester le Completed	Semester: S/S	Credits	Grade	Semester ade Complete
2nd Year	3rd Semester: * MTH 203 * STA 220 * EGR 220 * PHY 230 * EGR 107	Fall Calculus III Statistical Modeling Measure/Data Analysis Physics I Intro to Egr Design II	4 2	Semester ade Completed 	4th Sem * MTH * PHY % ECO	ester: Win 302 231 210 or 2	tter Lin Alg & DEQ Physics II 11 Micro or Macroecon	4 _ 5 _		+	Semester: S/S		Grade	Semester Completed
3rd Year	5th Semester: * EGR 214 * EGR 209 * EGR 289 * IE Track (Mechanical track ta	Fall Circuit Analysis I Mech & Mach Engrg Co-op Prep EGR 226 or 224 akes foundation course EGR 226	4 4 1 3/4	Semester ade Completed	* IE * EGR * IE	Track 250 Track ck takes founda	EGR 309 or 223 Materials Science EGR 312 or 226 ation course EGR 226)	3/4 _ 4 _			Semester: S/S EGR 290 Engrg Co-	Credits	Grade	Semester Completed
4th Year	7th Semester: EGR 314 IE Track EGR 315	Fall Circuit Analysis II EGR 346 or 326 Electronic Circuits I	4 4	Semester ade Completed	Semeste EGR EGR	r: Winter 390 312	Engrg Co-op II Dynamics (Sensor Track ONLY)	3_	S Grade Co 		8th Semester: S/S EGR 445 Robotics S IE Track EGR 409 EGR 455 Automatic # HNR Jr. Sem	or 309 4 Control 4		Semester Completed
5th Year	Semester: Fall EGR 490 EGR 352	Engrg Co-op III Dynamics and Kinematics (Mechanical Track ONL)	3 3	Semester ade Completed	9th Sem & EGR IE HNR \$ HNR	485 Track LS US	tter Sr Project I EGR 450 or 436	1 _ 4 _ 3 _	S Grade Co 		10th Semester: S/S & EGR 486 Sr Project IE Track Elective	II 2		Semester Completed

PCEC Student Services: (616)331-6025

- Engineering Foundation course *
- Students may enroll in PHY 234 instead of PHY 231 +
- # 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.
- NR 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 7	Frack:	Sensor-Controls Track:					
EGR 226	5th semester fall	EGR 224	5th semester fall				
EGR 309	6th semester winter	EGR 226	6th semester winter				
EGR 312	6th semester winter	EGR 223 6th semester winter					
EGR 346	7th semester fall	EGR 326	7th semester fall				
EGR 409	8th semester spring/summer	EGR 312	Winter Co-op				
EGR 352	Fall co-op	EGR 309	8th semester spring/summer				
EGR 450	9th semester winter	EGR 436	9th semester winter				
Mechanical Tra	ack Electives:	Sensor-Controls Track Electives:					
EGR 224 Intro	to Digital Systems (4 credits)	EGR 409 Machine Design II (4 credits)					
EGR 436 Embe	dded Systems Interface (4 credits)	EGR 450 Manufacturing Controls (4 credits)					
EGR 424 Design	n of Microcontroller Applications (4 credits)	EGR 352 Dynamics and Kinematics of Machinery (4 credits)					
EGR 350 Vibrat	tions (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.