Study Plan for B.S.E., PRODUCT DESIGN & MANUFACTURING ENGINEERING Major & Robotics and Control Emphasis

(2019-20 Catalog) (MTH 201 Placement with Honors Alliance and Conflict - 5 Year Program)

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linor:		

Student Name	:
Student ID#:	\overline{G}

1st Year	* MTH 201 Calculus I CHM 115 Chemistry I HNR 260 HNR 201 Live, Learn, Lead	4	Semester Completed	* MTH 202 Calculus II * EGR 106 Intro to Egr Design I HNR 261 HNR 262			 Semester: S/S			Semester Completed
2nd Year	* MTH 203 Calculus III * EGR 107 Intro to Egr Design I * PHY 230 Physics I * STA 220 Statistical Modeling * EGR 220 Measure/Data Analysis	3 5 2	Semester Completed	# MTH 302 Lin Alg & DEQ # PHY 231 Physics II # ECO 210/211 Economics	5		 Semester: S/S			Semester Completed
3rd Year	5th Semester: Fall* EGR226MicroCtrl Pgm Appl* EGR214Circuit Analysis I* EGR209Mech & Mach* EGR289Engrg Co-op Prep	4	Semester Completed	# EGR 309 Mach Design I # EGR 250 Mat Sci & Engrg HNR LS S HNR US	4		 Semester: S/S EGR 290 Engrg Co-op I	c Credits	Grade	Semester Completed
4th Year	7th Semester: Fall EGR 301 Fund Prod Des EGR 345 Dyn Sys Mod EGR 367 Mfg Processes	4	Semester Completed	Semester: Winter EGR 390 Engrg Co-op II (sws)	co Credits	Grade Co	8th Semester: S/S EGR 362 Thermo-Fluid Sys EGR 440 Prod'n Models EGR 445 Robotics Sys HNR Jr. Sem			Semester Completed
5th Year	Semester: Fall EGR 490 Engrg Co-op III	Grade 3	Semester Completed – –	& EGR 485 Sr Project I	3/4 1	Grade Co	 10th Semester: S/S k EGR 486 Sr Project II EGR 409 Mach Design II	2		Semester Completed

PCEC Student Services: (616)331-6025

- Engineering Foundation course
- + Engineering Physics II (PHY 234) is available in fall only.
- # The Jr. Seminar fulfills one Issues 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 HNR 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.
- ^ Electives (2 required)

EGR 312 Dynamics

EGR 352 Kinematics and Dynamics of Machinery

EGR 405 Materials Failure Analysis

EGR 441 Engineering Economics, Quality Control and Manufacturing Operations

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 in each Foundation course.
- 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.

If students do not have Advanced Placement credit applicable to the engineering curriculum, e.g., Calculus, Physics, and/or Chemistry, it is strongly recommended that they consider a 5-year plan.