

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

Student Name: _____

(2018-19 Catalog) (MTH 201 Placement with Honors Alliance and Conflict - 5 Year Program)

Student ID#: G

Minor: _____

	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 Calculus I * CHM 115 Chemistry I HNR 260 _____ HNR 201 Live, Learn, Lead	4 4 3 3	_____ _____ _____ _____	_____ _____ _____ _____	* MTH 202 Calculus II * EGR 106 Intro to Egr Design I HNR 261 _____ HNR 262 _____	4 3 3 3	_____ _____ _____ _____	_____ _____ _____ _____	_____ _____ _____ _____	_____ _____ _____ _____	_____ _____ _____ _____	_____ _____ _____ _____
2nd Year	3rd Semester: Fall _____ * MTH 203 Calculus III * STA 220 Engrg Statistics * EGR 220 Engrg Stats Lab * EGR 107 Intro to Egr Design II HNR LS _____	4 2 1 3 3	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____	4th Semester: Winter _____ * MTH 302 Lin Alg & DEQ % ECO 210/211 Economics * PHY 230 Physics I	4 3 5	_____ _____ _____ _____	_____ _____ _____ _____	_____ _____ _____ _____	_____ _____ _____ _____	_____ _____ _____ _____	_____ _____ _____ _____
3rd Year	5th Semester: Fall _____ + * PHY 234/1 Physics II * EGR 226 MicroCtrl Pgm Appl * EGR 209 Mech & Mach * EGR 289 Engrg Co-op Prep	4/5 4 4 1	_____ _____ _____ _____	_____ _____ _____ _____	6th Semester: Winter _____ * EGR 309 Machine Design I * EGR 250 Material Sci & Egr * EGR 214 Circuit Analysis I STA 216 Inter Applied Stats	4 4 4 3	_____ _____ _____ _____	_____ _____ _____ _____	Semester: S/S _____ EGR 290 Engrg Co-op I	3	_____ _____	_____ _____
4th Year	7th Semester: Fall _____ EGR 345 Dyn Sys Mod EGR 367 Mfg Processes STA 321 App Regres Anlys = CIS 161/2 Comp Sci	4 4 3 3	_____ _____ _____ _____	_____ _____ _____ _____	Semester: Winter _____ EGR 390 Engrg Co-op II (SWS)	3	_____ _____	_____ _____	8th Semester: S/S _____ & EGR 362 Thermo-Fluids EGR 440 Production Models EGR 441 Engrg Econ/QC/Mfg Ops # HNR Jr. Sem _____	4 3 4 3	_____ _____ _____ _____	_____ _____ _____ _____
5th Year	Semester: Fall _____ EGR 490 Engrg Co-op III	3	_____ _____	_____ _____	9th Semester: Winter _____ ^ EGR 485 Sr Project I CIS 335 Data Mining CIS 360 Info Mgt & Sci STA 426 Multivar Data Anlys § HNR US _____	1 3 3 3 3	_____ _____ _____ _____ _____	_____ _____ _____ _____ _____	10th Semester: S/S _____ ^ EGR 486 Sr Project II IE Elec. _____	2 3/4	_____ _____ _____	_____ _____ _____

PCEC Student Services: (616)331-6025

- * Engineering Foundation course - requires PDM foundations
- + Students may enroll in PHY 231 instead of PHY 234
- & Students may take EGR 362-Thermo Fluids or EGR 360-Thermo (Fall only)
- = Either CIS 161 or CIS 162 is required
- # 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.

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 per Foundations 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.