

Study Plan for B.S.E., **INTERDISCIPLINARY ENGINEERING** Major & Bioelectrical emphasis

Student Name: _____

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

Student ID#: **G** _____

Minor: _____

| Year | 1st Semester: Fall _____ | | | | 2nd Semester: Winter _____ | | | | Semester: S/S _____ | | | | | | |
|-----------|--------------------------|------------------------|--------------------|---------|----------------------------|--------------------|------------------------|-------|--------------------------|--------|-----------|---------------|-------|-------|-------|
| | Credits | Grade | Semester Completed | Credits | Grade | Semester Completed | Credits | Grade | Semester Completed | | | | | | |
| 1st Year | * MTH 201 | Calculus I | 4 | _____ | _____ | * MTH 202 | Calculus II | 4 | _____ | _____ | _____ | _____ | | | |
| | * CHM 115 | Chemistry I | 4 | _____ | _____ | * EGR 106 | Intro to Egr Design I | 3 | _____ | _____ | _____ | _____ | | | |
| | HNR 260 | | 3 | _____ | _____ | HNR 261 | | 3 | _____ | _____ | _____ | _____ | | | |
| | HNR 201 | Live, Learn, Lead | 3 | _____ | _____ | HNR 262 | | 3 | _____ | _____ | _____ | _____ | | | |
| 2nd Year | 3rd Semester: Fall _____ | | | | 4th Semester: Winter _____ | | | | Semester: S/S _____ | | | | | | |
| | Credits | Grade | Semester Completed | Credits | Grade | Semester Completed | Credits | Grade | Semester Completed | | | | | | |
| | * MTH 203 | Calculus III | 4 | _____ | _____ | * MTH 302 | Lin Alg & DEQ | 4 | _____ | _____ | _____ | _____ | | | |
| | * EGR 107 | Intro to Egr Design II | 3 | _____ | _____ | + * PHY 231 | Physics II | 5 | _____ | _____ | _____ | _____ | | | |
| | * PHY 230 | Physics I | 5 | _____ | _____ | % ECO 210/211 | Economics | 3 | _____ | _____ | _____ | _____ | | | |
| * STA 220 | Statistical Modeling | 2 | _____ | _____ | | | | | | | | | | | |
| * EGR 220 | Measure/Data Analysis | 1 | _____ | _____ | | | | | | | | | | | |
| 3rd Year | 5th Semester: Fall _____ | | | | 6th Semester: Winter _____ | | | | Semester: S/S _____ | | | | | | |
| | Credits | Grade | Semester Completed | Credits | Grade | Semester Completed | Credits | Grade | Semester Completed | | | | | | |
| | * EGR 226 | MicroCtrl Pgm Appl | 4 | _____ | _____ | * EGR 223 | Probab & Signals | 3 | _____ | _____ | EGR 290 | Engrg Co-op I | 3 | _____ | _____ |
| | * EGR 209 | Mech & Mach | 4 | _____ | _____ | * EGR 257 | Elect Mat'ls & Devices | 4 | _____ | _____ | | | | | |
| | @ EGR 224 | Intro Dig Sys Design | 3 | _____ | _____ | * EGR 214 | Circuit Analysis I | 4 | _____ | _____ | | | | | |
| * EGR 289 | Engrg Co-op Prep | 1 | _____ | _____ | ! HNR LS | (BMS 202) | 4 | _____ | _____ | | | | | | |
| 4th Year | 7th Semester: Fall _____ | | | | Semester: Winter _____ | | | | 8th Semester: S/S _____ | | | | | | |
| | Credits | Grade | Semester Completed | Credits | Grade | Semester Completed | Credits | Grade | Semester Completed | | | | | | |
| | EGR 314 | Circuit Analysis II | 4 | _____ | _____ | EGR 390 | Engrg Co-op II (sws) | 3 | _____ | _____ | CHM 230 | Org & Biochem | 4 | _____ | _____ |
| | EGR 315 | Elect Circuits I | 4 | _____ | _____ | | | | | | EGR 323 | Signals & Sys | 3 | _____ | _____ |
| EGR 326 | Embedded Sys Des | 4 | _____ | _____ | | | | | | # HNR | Jr. Sem | 3 | _____ | _____ | |
| | | | | | | | | | | \$ HNR | US | 3 | _____ | _____ | |
| 5th Year | Semester: Fall _____ | | | | 9th Semester: Winter _____ | | | | 10th Semester: S/S _____ | | | | | | |
| | Credits | Grade | Semester Completed | Credits | Grade | Semester Completed | Credits | Grade | Semester Completed | | | | | | |
| | EGR 490 | Engrg Co-op III | 3 | _____ | _____ | EGR 403 | Med Dev Design | 3 | _____ | _____ | & EGR 486 | Sr Project II | 2 | _____ | _____ |
| EGR 434 | Bioelec Potentials | 3 | _____ | _____ | EGR 432 | Biomed Imaging | 3 | _____ | _____ | | | | | | |
| | | | | | & EGR 485 | Sr Project I | 1 | _____ | _____ | | | | | | |
| | | | | | EGR 435 | Math Model Phys | 3 | _____ | _____ | | | | | | |

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 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.
- ! Required for major
- @ Prerequisite for upper division coursework

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.

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.