

Study Plan for B.S.E., *Biomedical Engineering (Electrical Emphasis)*

Minor: _____

Student Name: _____

(2019-20 Catalog) (MTH 201 Placement with Honors Alliance and Conflict - 4 Year Program)

Student ID#: G

| | 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 | _____ | _____ | * EGR 107 | Intro to Egr Design | 3 | _____ | _____ |
| | * CHM 115 | Chemistry I | 4 | _____ | _____ | * EGR 106 | Intro to Egr Design I | 3 | _____ | _____ | * MTH 203 | Calculus III | 4 | _____ | _____ |
| | HNR 260 | | 3 | _____ | _____ | HNR 261 | | 3 | _____ | _____ | * PHY 230 | Physics I | 5 | _____ | _____ |
| | 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 | | | | | | |
| | + * PHY 234/1 | Physics II | 4/5 | _____ | _____ | * MTH 302 | Lin Alg & DEQ | 4 | _____ | _____ | EGR 290 | Engrg Co-op I | 3 | _____ | _____ |
| | * STA 220 | Statistical Modeling | 2 | _____ | _____ | * EGR 223 | Probab & Signals | 3 | _____ | _____ | | | | | |
| | * EGR 220 | Measure/Data Analysis | 1 | _____ | _____ | * EGR 257 | Elect Mat'ls & Devices | 4 | _____ | _____ | | | | | |
| | * EGR 226 | MicroCtrl Pgm Appl | 4 | _____ | _____ | * EGR 214 | Circuit Analysis I | 4 | _____ | _____ | | | | | |
| * EGR 224 | Intro Dig Sys Design | 3 | _____ | _____ | | | | | | | | | | | |
| * EGR 289 | Engrg Co-op Prep | 1 | _____ | _____ | | | | | | | | | | | |
| 3rd Year | 5th Semester: Fall _____ | | | Semester: Winter _____ | | | 6th 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 | _____ | _____ | EGR 323 | Signals & Sys | 3 | _____ | _____ |
| | EGR 315 | Elect Circuits I | 4 | _____ | _____ | | | | | | ! HNR LS | (BMS 202) | 4 | _____ | _____ |
| | EGR 326 | Embedded Sys Des | 4 | _____ | _____ | | | | | | % ECO 210/2 | Economics | 3 | _____ | _____ |
| CHM 230 | Organic & Biochem | 4 | _____ | _____ | | | | | | # HNR | Jr. Sem _____ | 3 | _____ | _____ | |
| 4th Year | Semester: Fall _____ | | | 7th Semester: Winter _____ | | | 8th Semester: S/S _____ | | | | | | | | |
| | Credits | Grade | Semester Completed | Credits | Grade | Semester Completed | Credits | Grade | Semester Completed | | | | | | |
| | EGR 490 | Engrg Co-op III | 3 | _____ | _____ | & EGR 485 | Sr Project I | 1 | _____ | _____ | & EGR 486 | Sr Project II | 2 | _____ | _____ |
| | EGR 434 | Bioelectric Potentials | 3 | _____ | _____ | EGR 435 | MMPS | 3 | _____ | _____ | BME Elec | _____ | 3/4 | _____ | _____ |
| | | | | | BME Elec | _____ | 3/4 | _____ | _____ | \$ HNR US | _____ | 3 | _____ | _____ | |
| | | | | | BME Elec | _____ | 3/4 | _____ | _____ | | | | | | |
| | | | | | EGR 403 | Med Dev Design | 3 | _____ | _____ | | | | | | |

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.
- ! BMS 202 is required by the major and will fulfill HNR Life Science requirement

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.