

Study Plan for B.S.E., ELECTRICAL ENGINEERING Major

(2019-20 Catalog) (MTH 201 Placement - 5 Year Program)

Minor: _____

Student Name: _____

 Student ID#: G

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|----------|---------------------------------|-----------------------|-----|----------------|--------------|---------------------------|-----------------------------------|------------------------|-----|----------------|--------------|---------------------------|---------------------------------|---------------|-------|----------------|--------------|---------------------------|
| 1st Year | 1st Semester: Fall _____ | | | <i>Credits</i> | <i>Grade</i> | <i>Semester Completed</i> | 2nd Semester: Winter _____ | | | <i>Credits</i> | <i>Grade</i> | <i>Semester Completed</i> | Semester: S/S _____ | | | <i>Credits</i> | <i>Grade</i> | <i>Semester Completed</i> |
| | * MTH 201 | Calculus I | 4 | _____ | _____ | | * MTH 202 | Calculus II | 4 | _____ | _____ | | _____ | _____ | _____ | _____ | _____ | _____ |
| | * WRT 150 | Writ Strategies | 4 | _____ | _____ | | * CHM 115 | Chemistry I | 4 | _____ | _____ | | _____ | _____ | _____ | _____ | _____ | _____ |
| | * EGR 106 | Intro to Egr Design I | 3 | _____ | _____ | | * EGR 107 | Intro to Egr Design II | 3 | _____ | _____ | | _____ | _____ | _____ | _____ | _____ | _____ |
| | GE - Hist | _____ | 3 | _____ | _____ | | GE - Arts | _____ | 3 | _____ | _____ | | _____ | _____ | _____ | _____ | _____ | _____ |
| 2nd Year | 3rd Semester: Fall _____ | | | <i>Credits</i> | <i>Grade</i> | <i>Semester Completed</i> | 4th Semester: Winter _____ | | | <i>Credits</i> | <i>Grade</i> | <i>Semester Completed</i> | Semester: S/S _____ | | | <i>Credits</i> | <i>Grade</i> | <i>Semester Completed</i> |
| | * MTH 203 | Calculus III | 4 | _____ | _____ | | * MTH 302 | Lin Alg & DEQ | 4 | _____ | _____ | | _____ | _____ | _____ | _____ | _____ | _____ |
| | * PHY 230 | Physics I | 5 | _____ | _____ | | * EGR 224 | Intro Dig Sys Design | 3 | _____ | _____ | | _____ | _____ | _____ | _____ | _____ | _____ |
| | * STA 220 | Statistical Modeling | 2 | _____ | _____ | | * EGR 226 | MicroCtrl Pgm Appl | 4 | _____ | _____ | | _____ | _____ | _____ | _____ | _____ | _____ |
| | * EGR 220 | Measure/Data Analysis | 1 | _____ | _____ | | # GE - GP | _____ | 3 | _____ | _____ | | _____ | _____ | _____ | _____ | _____ | _____ |
| | @ GE - P & L (PHI 102 Ethics) | | 3 | _____ | _____ | | | | | | | | | | | | | |
| 3rd Year | 5th Semester: Fall _____ | | | <i>Credits</i> | <i>Grade</i> | <i>Semester Completed</i> | 6th Semester: Winter _____ | | | <i>Credits</i> | <i>Grade</i> | <i>Semester Completed</i> | Semester: S/S _____ | | | <i>Credits</i> | <i>Grade</i> | <i>Semester Completed</i> |
| | + * PHY 234/1 | Physics II | 4/5 | _____ | _____ | | * EGR 223 | Probab & Signals | 3 | _____ | _____ | | EGR 290 | Engrg Co-op I | 3 | _____ | _____ | _____ |
| | % ECO 210/211 | Economics | 3 | _____ | _____ | | * EGR 257 | Elect Mat'ls & Devices | 4 | _____ | _____ | | _____ | _____ | _____ | _____ | _____ | _____ |
| | * EGR 214 | Circuit Analysis I | 4 | _____ | _____ | | • GE-SBS | _____ | 3 | _____ | _____ | | | | | | | |
| | * EGR 289 | Engrg Co-op Prep | 1 | _____ | _____ | | GE - US | _____ | 3 | _____ | _____ | | | | | | | |
| 4th Year | 7th Semester: Fall _____ | | | <i>Credits</i> | <i>Grade</i> | <i>Semester Completed</i> | Semester: Winter _____ | | | <i>Credits</i> | <i>Grade</i> | <i>Semester Completed</i> | 8th Semester: S/S _____ | | | <i>Credits</i> | <i>Grade</i> | <i>Semester Completed</i> |
| | EGR 314 | Circuit Analysis II | 4 | _____ | _____ | | EGR 390 | Engrg Co-op II (SWS) | 3 | _____ | _____ | | EGR 330 | Power Systems | 4 | _____ | _____ | _____ |
| | EGR 315 | Elect Circuits I | 4 | _____ | _____ | | | | | | | | EGR 343 | Applied E/M | 4 | _____ | _____ | _____ |
| | EGR 326 | Embedded Sys Des | 4 | _____ | _____ | | | | | | | | EGR 323 | Signals & Sys | 3 | _____ | _____ | _____ |
| | GE - Issue | _____ | 3 | _____ | _____ | | | | | | | | GE - LS | _____ | 3 | _____ | _____ | _____ |
| 5th Year | Semester: Fall _____ | | | <i>Credits</i> | <i>Grade</i> | <i>Semester Completed</i> | 9th Semester: Winter _____ | | | <i>Credits</i> | <i>Grade</i> | <i>Semester Completed</i> | 10th Semester: S/S _____ | | | <i>Credits</i> | <i>Grade</i> | <i>Semester Completed</i> |
| | EGR 490 | Engrg Co-op III | 3 | _____ | _____ | | EE Elec | _____ | 3/4 | _____ | _____ | | EGR 486 | Sr Project II | 2 | _____ | _____ | _____ |
| | EE Elec | _____ | 3/4 | _____ | _____ | | EE Elec | _____ | 3/4 | _____ | _____ | | EE Elec | _____ | 3/4 | _____ | _____ | _____ |
| | | | | | | | EGR 485 | Sr Project I | 1 | _____ | _____ | | | | | | | |
| | | | | | | | GE - Hist | _____ | 3 | _____ | _____ | | | | | | | |
| | | | | | | | GE - Issue | _____ | 3 | _____ | _____ | | | | | | | |

PCEC Student Services: (616)331-6025

- * Engineering Foundation course
- + Students may enroll in PHY 231 instead of PHY 234
- Consider taking a course that doubles as SBS and US (See Gen Ed guide for selections)
- # Consider taking a course that doubles as GP and Issue (See Gen Ed guide for selections)
- @ An ethics course is required in the engineering program (PHI 102 or another ethics course in General Education). Consider taking PHI 102 as an SWS.
- % ECO 210 or 211 is required in the engineering curriculum. Also fulfills one SBS Gen Ed 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**

- 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.