**Study Plan for B.S.E., *MECHANICAL ENGINEERING* Major**

**Student Name:** _____

**(2018-19 Catalog)** ***(MTH 201 Placement - 4 Year Program)*** **Minor:** _____ **Student ID#:** G

| | | Credits | Grade | Semester Completed |
|---|---|---|---|---|
| **1st Year** | **1st Semester: Fall____** | | | |
| | * MTH 201 Calculus I | 4 | | |
| | * WRT 150 Writ Strategies | 4 | | |
| | * EGR 106 Intro to Egr Design I | 3 | | |
| | * CHM 115 Chemistry I | 4 | | |
| | | | | |
| | **2nd Semester: Winter ____** | | | |
| | * MTH 202 Calculus II | 4 | | |
| | * PHY 230 Physics I | 5 | | |
| | * EGR 107 Intro to Egr Design II | 3 | | |
| | * STA 220 Engrg Statistics | 2 | | |
| | * EGR 220 Engrg Stats Lab | 1 | | |
| | **Semester: S/S ____** | | | |
| | _____ | __ | | |
| | _____ | __ | | |
| | _____ | __ | | |
| **2nd Year** | **3rd Semester: Fall____** | | | |
| | * MTH 203 Calculus III | 4 | | |
| + | * PHY 234/1 Physics II | 4/5 | | |
| | * EGR 226 MicroCtrl Pgm Appl | 4 | | |
| | * EGR 209 Mech & Mach | 4 | | |
| | * EGR 289 Engrg Co-op Prep | 1 | | |
| | **4th Semester: Winter ____** | | | |
| | * MTH 302 Lin Alg & DEQ | 4 | | |
| | * EGR 309 Mach Design I | 4 | | |
| | * EGR 312 Dynamics | 3 | | |
| | * EGR 214 Circuit Analysis I | 4 | | |
| | **Semester: S/S ____** | | | |
| | EGR 290 Engrg Co-op I | 3 | | |
| • | GE-SBS _____ | 3 | | |
| | _____ | __ | | |
| **3rd Year** | **5th Semester: Fall____** | | | |
| | EGR 250 Mat Sci & Engrg | 4 | | |
| | EGR 346 Mechatronics & Ctrl | 4 | | |
| | EGR 360 Thermodynamics | 4 | | |
| # | GE - GP _____ | 3 | | |
| | **Semester: Winter ____** | | | |
| | EGR 390 Engrg Co-op II (SWS) | 3 | | |
| | GE - Issue _____ | 3 | | |
| | **6th Semester: S/S ____** | | | |
| | EGR 365 Fluid Mechanics | 4 | | |
| | EGR 409 Mach Design II | 4 | | |
| | EGR 329 FEA | 3 | | |
| % | ECO 210/211 Economics | 3 | | |
| | GE - Arts _____ | 3 | | |
| **4th Year** | **Semester: Fall____** | | | |
| | EGR 490 Engrg Co-op III | 3 | | |
| | GE - Issue _____ | 3 | | |
| | **7th Semester: Winter ____** | | | |
| | EGR 468 Heat Transfer | 4 | | |
| | ME Elec _____ | 4 | | |
| | ME Elec _____ | 4 | | |
| | EGR 485 Sr Project I | 1 | | |
| @ | GE - P & L (PHI 102 Ethics) | 3 | | |
| | **8th Semester: S/S ____** | | | |
| | EGR 486 Sr Project II | 2 | | |
| | ME Elec _____ | 4 | | |
| | GE - LS _____ | 3 | | |
| | GE - Hist _____ | 3 | | |
| | GE - US _____ | 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 WP 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 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.