Bachelor of Science in Engineering (B.S.E.)
2023-2024
Interdisciplinary Engineering:
Engineering Management Emphasis
MTH 110 Start, 5 Year Plan
Secondary Admission Required


- This is a suggested curriculum guide that might not be applicable to every student
- Foundation courses are required for secondary admission and are designated by an asterisk (*) on this guide
- Student must have a minimum of $\mathbf{1 2 0}$ credits to graduate, with $\mathbf{5 8}$ of the $\mathbf{1 2 0}$ credits being from a senior level institution and the final $\mathbf{3 0}$ of the $\mathbf{1 2 0}$ credits completed at GVSU

| IE - Design \& Innovation Foundation Requirements |  |  |  |
| :---: | :---: | :---: | :---: |
| MTH 201 | MTH 202 | MTH 203 |  |
| WRT 150 or WRT 130 | CHM 115 | PHY 230 | MTH 302 |
| EGR 100 | EGR 111 | EGR 112 (or EGR 104+ EGR 108) |  |
| EGR 185 | EGR 289 | EGR 220 + STA 220 | EGR 113 |
| EGR 226+227 | EGR 209 | EGR 309 + 310 | EGR 214+215 |

## General Education Requirements

| WRT 150: Strategies in Writing (grade of "C" or higher required) <br> or WRT 120 and WRT 130 (grade of "C" or higher required in both) | Life Sciences (consider BIO 105) |
| :--- | :--- |
| Physical Sciences (CHM 115) | Philosophy and Literature |
| Arts | Mathematical Sciences (MTH 201) |
| Social Behavioral Sciences (ECO 210 or 211) | Social Behavioral Sciences |
| Historical Analysis (consider HSC 202) | U.S. Diversity |
| Global Perspectives | 2 Supplemental Writing Skills Courses (prerequisite: WRT 130 or WRT 150) |
| 2 Issues Courses (prerequisite: must have 55+ credits) |  |

## Secondary Admission Requirements:

Detailed application and admission requirements available at https://www.gvsu.edu/engineering/secondary-admission-to-engineering-majors-44.htm
$\checkmark \quad$ A GPA of 2.7 or above in Engineering Foundation courses. Foundation courses are designated by an asterisk (*) on this guide.
$\checkmark \quad$ Completion of each course in the Engineering Foundation with a grade of $C$ (2.0) or above, with no more than one repeat.
$\checkmark$ Completion of preparation for placement in the cooperative engineering education course, EGR 289.

## Major Declaration Steps:

An emphasis area is required for the Interdisciplinary Engineering major. Emphasis areas include: Data Science, Design \& Innovation, Engineering Management, Environmental Engineering, Mechatronics and Renewable Energy.

1) To declare this emphasis, login to MyBanner, select "Student Records" and then "Change Major."
2) Click on "Change Major 1" and select Interdisciplinary Engineering - Engineering Management Emphasis.
3) Click "Submit" and then "Change to New Program."
4) Please also declare a Business General minor in MyBanner, by selecting "Student Records", then "Change Major" and "Add a Minor."

## Major Notes:

1) It is recommended that anyone on a 5 year EGR plan complete the EGR $104+108$ stretch option in place of EGR 112 . Please speak with an advisor if you have questions about which option is best for you.
2) Consider taking a course that fulfills the U.S. Diversity category and one non-ECO Social and Behavioral Science course.
3) Consider taking a course that fulfills the Global Perspectives category and one Issues course.
4) An ethics course is required in the engineering program. It is recommended to take ONE of the following:
a. EGR 302 (Engineering Decision-Making in Society), BIO 328, BIO 338, COM 438, MGT 340, MGT 438, MKT 375, PHI 325 or PLS 338 in the Issues category
b. PHI 102 in the Philosophy and Literature category
c. For Honors College students, the ethics requirement is fulfilled by completion of the Honors Curriculum
5) ECO 210 or 211 is required for the engineering major AND fulfills one Social and Behavioral Science course.
6) Two Supplemental Writing Skills (SWS) courses are required for graduation. These can be fulfilled via other general education categories. For example, EGR 302 will fulfill ONE SWS requirement, one Issues requirement AND the engineering ethics requirement.

## Recommendations:

It is strongly encouraged that students do not begin or break curriculum thread by taking courses at other institutions.
For example: Taking MTH 201 equivalent elsewhere, then return to Grand Valley and continuing in the math thread with MTH 202.

