Bachelor of Science in Engineering (B.S.E.)

2022-2023
Product Design \& Manufacturing Engineering:

## Robotics and Control Emphasis

## MTH 122 Start, 5 Year Plan

Secondary Admission Required


[^0]| $\checkmark$ | PDM Foundation Requirements | $\checkmark$ | General Education Requirements |
| :---: | :---: | :---: | :---: |
|  | MTH 201 |  | WRT 150: Strategies in Writing (grade of "C" or higher required) or WRT 120 and WRT 130 |
|  | MTH 202 |  | Life Sciences (consider BIO 105) |
|  | MTH 203 |  | Physical Sciences (CHM 115) |
|  | MTH 302 |  | Philosophy and Literature (consider PHI 102) |
|  | CHM 115 |  | Arts |
|  | PHY 230 |  | Mathematical Sciences (MTH 201) |
|  | PHY 231 or 234 |  | Social Behavioral Sciences (ECO 210 or 211) |
|  | WRT 150 |  | Social Behavioral Sciences |
|  | EGR 100 |  | Historical Analysis (consider HSC 202) |
|  | EGR 111 |  | U.S. Diversity |
|  | EGR 112 or EGR 104+EGR 108 |  | Global Perspectives |
|  | EGR 113 |  | 2 Supplemental Writing Skills Courses (prerequisite: WRT 130 or 150) |
|  | EGR 185 |  | 2 Issues Courses (must have 55+ credits) |
|  | EGR 289 |  |  |
|  | EGR 220+STA 220 |  |  |
|  | EGR 214+215 |  |  |
|  | EGR 226+227 |  |  |
|  | EGR 209 |  |  |
|  | EGR 309+310 |  |  |
|  | EGR 250+251 |  |  |

## Secondary Admission Requirements:

Detailed application and admission requirements available at https://www.gvsu.edu/engineering/secondary-admission-to-engineering-majors-44.htm
$\checkmark$ A GPA of 2.7 or above in Engineering Foundation courses. Foundation courses are designated by an asterisk (*) on this guide.
$\checkmark$ 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:

$\checkmark$ An emphasis area is required for the Product Design and Manufacturing Engineering major. A list of major elective options is listed in the GVSU Academic Catalog.
$\checkmark$ To declare this emphasis, login to MyBanner, select "Student Records" and then "Change Major."

- Click on "Change Major 1" and select Product Design and Manufacturing - Robotics and Control Emphasis.
- Click "Submit" and then "Change to New Program."


## Major Notes:

1) Consider taking a course that fulfills the U.S. Diversity category and one non-ECO Social and Behavioral Science course.
2) Consider taking a course that fulfills the Global Perspectives category and one Issues course.
3) An ethics course is required in the engineering program. It is recommended to take ONE of the following:
a. PHI 102 in the Philosophy and Literature category
b. BIO 328, BIO 338, COM 438, EGR 302, MGT 340, MGT 438, MKT 375, PHI 325 OR PLS 338 in the Issues category
c. For Honors College students, the ethics requirement is fulfilled by completion of the Honors Curriculum
4) ECO 210 or 211 is required for the engineering major AND fulfills one Social and Behavioral Science course.
5) 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.


[^0]:    - 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

