Cleveland State University
Washkewicz College of Engineering Bachelor of Mechanical Engineering (MCE)

Fall 2022
MCE Degree Map for students immediately eligible for College Writing I, General Chemistry I, and Calculus I

| First Year |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fall Semester | Credits | Major | Gen. Ed. | Spring Semester | Credits | M Major | Gen. Ed. |
| ENG 100 Intensive Writing or ENG 101 Writing I | 3 |  | W/C | ESC 102 Tech. Writing or ENG 102 College Writing II | 3 |  | W/C |
| MTH 181 Calculus I | 4 | X | M | MTH 182 Calculus II | 4 | X | M |
| CHM 261 General Chemistry I | 3 | X | NS | ESC 152 Programming with MATLAB | 3 | X |  |
| CHM 266 General Chemistry Laboratory I | 1 | X | NS\&Lab | PHY 241 University Physics I | 5 | X | NS |
| ESC 100 New Student Orientation | 1 |  | INTRO | MCE 181 Computer Aided Engineering II | 2 | X |  |
| ESC 120 Introduction to Engineering | 2 | X |  |  |  |  |  |
| MCE 180 Computer Aided Engineering I | 2 | X |  |  |  |  |  |
| Semester Total | 16 |  |  | Semester Total | 17 |  |  |
| Second Year |  |  |  |  |  |  |  |
| Fall Semester | Credits | Major | Gen. Ed. | Spring Semester | Credits | Major | Gen. Ed. |
| ESC 250 Differential Equations | 3 | X |  | ESC 202 Dynamics | 3 | X |  |
| MTH 281 Multivariable Calculus | 4 | X |  | ESC 301 Fluid Mechanics | 3 | X |  |
| ESC 201 Statics | 3 | X |  | PHY 242 University Physics II | 5 | X | NS |
| MCE 276 Materials \& Manufacturing Processes | 3 | X |  | ESC 211 Strength of Materials | 3 | X |  |
| MCE 286 Manufacturing Processes Lab | 1 | X |  | General Education Elective | 3 |  | DIV US |
| ESC 130 Engineering Co-op Orientation* | 1 |  |  |  |  |  |  |
| Semester Total | 15 |  |  | Semester Total | 17 |  |  |

## Third Year

| Fall Semester | Credits | Major | Gen. Ed. | Spring Semester | Credits | Major | Gen. Ed. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MCE 260 Kinematics | 3 | X |  | MCE 315 Electrical Systems for Mechanical Engineers | 3 | X |  |
| MCE 371 Vibrations | 3 | X |  | MCE 365 Machine Design I | 3 | X |  |
| MCE 362 Machine Analysis | 3 | X |  | MCE 324 Intro to Heat Transfer | 3 | X |  |
| ESC 321 Engineering Thermodynamics I | 3 | X |  | MCE 421 Applied Thermodynamics | 3 | X |  |
| ESC 350 Linear Algebra for Engineers | 3 | X |  | MCE 481 Thermodynamics Lab | 1 | X |  |
|  |  |  |  | General Education Elective** | 3 |  | SS |
| Semester Total | 15 |  |  | Semester Total | 16 |  |  |

Fourth Year

| Fall Semester | Credits | Major | Gen. Ed. | Spring Semester | Credits | Major | Gen. Ed. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MCE 450 Design Project I | 2 | X | CAP\&WAC | MCE 451 Design Project II | 3 | X | CAP\&WAC |
| MCE 441 Introduction to Linear Controls | 3 | X |  | MCE XXX Mechanical Engineering Elective | 3 | X |  |
| MCE 470 Engineering Measurements | 3 | X |  | MCE XXX Mechanical Engineering Lab Elective | 3 | X |  |
| MCE 480 Measurements Lab | 1 | X |  | PHL 215 Engineering Ethics | 3 | X | AH\&WAC |
| MCE XXX Mechanical Engineering Elective | 3 | X |  | General Education Elective | 3 |  | DIV AA |
| ESC 282 Engineering Economy | 3 | X | SS | General Education Elective** | 3 |  | AH |
| Semester Total | 15 |  |  | Semester Total | 18 |  |  |

## Degree Total Hours: 128 or 129 with ESC 130

 college; or passing CSU's language placement test in reading, writing, and speaking of a second language other than English.
College/Program Notes:



 Methods, visit: MCE Math Minor or email: impt.engr.info@csuohio.edu to request guidance.
University Notes:
General Education Key + Notes

 | INTRO = Introduction to University Life Requirement (one course required) | SS = Social Sciences Requirement (2 courses required, one of which must be focused outside the US) |
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     provided, and any other subject addressed here.

