Cleveland State University Washkewicz College of Engineering Bachelor of Computer Engineering (CE)

Fall 2022
CE 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 | Major | Gen. Ed. |
| ENG 100 Intensive Writing or ENG 100 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 | PHY 243 University Physics I (Writing) | 5 | X | NS\&WAC |
| CHM 266 General Chemistry I Lab | 1 | X |  | ESC 151 C Programming | 3 | X |  |
| ESC 120 Introduction to Engineering Design | 2 | X |  | General Education Elective | 3 |  | AA DIV |
| ESC 100 New Student Orientation | 1 |  |  |  |  |  |  |
| Semester Total | 14 |  |  | Semester Total | 18 |  |  |

## Second Year

| Fall Semester | Credits | Major | Gen. Ed. | Spring Semester | Credits | Major | Gen. Ed. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EEC 383 Digital Systems | 3 | X |  | EEC 384 Digital Systems Laboratory | 2 | X |  |
| CIS 260 Introduction to Programming | 4 | X |  | CIS 265 Data Structures \& Algorithms | 4 | X |  |
| ESC 250 Differential Equations for Engineers | 3 | X |  | PHY 244 University Physics II (Writing) | 5 | X | NS\&WAC |
| EEC 310 Circuits I | 4 | X |  | EEC 311 Circuits II | 4 | X |  |
| MTH 220 Discrete Mathematics | 3 | X |  | ESC 130 Engineering Co-op Orientation* | 1 |  |  |
| Semester Total | 17 |  |  | Semester Total | 16 |  |  |

## Third Year

| Fall Semester | Credits | Major | Gen. Ed. | Spring Semester | Credits | Major | Gen. Ed. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EEC 313 Electronics I | 3 | X |  | EEC 316 Electronics Devices Lab | 1 | X |  |
| EEC 487 Advanced Digital Systems | 3 | X |  | EEC 483 Computer Organization | 3 | X |  |
| CIS 340 Systems Programming | 3 | X |  | EEC 414 Technical Communication | 2 | X | WAC |
| PHL 215 Engineering Ethics | 3 | X | A\&H+WAC | CIS 345 Operating Systems | 3 | X |  |
| MTH 284 Matrices for Engineers | 2 | X |  | ESC 282 Engineering Economy | 3 | X | SS |
| General Education Elective | 3 |  | US DIV | ESC 310 Engineering Statistics \& Probability | 3 | X |  |
| Semester Total | 17 |  |  | Semester Total | 15 |  |  |

## Fourth Year

| Fall Semester | Credits | Major | Gen. Ed. | Spring Semester | Credits | Major | Gen. Ed. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EEC 493 Senior Design I | 2 | X |  | EEC 494 Senior Design II | 3 | X |  |
| EEC 488 Hardware-Software Co-design | 3 | X |  | EEC Technical Elective | 3 | X |  |
| CIS 454 Computer Networks | 3 | X |  | EEC Technical Elective | 3 | X |  |
| EEC Technical Elective | 3 | X |  | EEC Technical Elective | 3 | X |  |
| General Education Elective** | 3 |  | SS | General Education Elective** | 3 |  | A\&H |
| Semester Total | 14 |  |  | Semester Total | 15 |  |  |

## Degree Total Hours: $\mathbf{1 2 5}$ or 126 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:




 impt.engr.info@csuohio.edu to request guidance.
University 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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