

## Michigan Technological University Bachelor of Science Degree Audit

### Major Program: Computer Engineering, Concentration: Engineering Enterprise

Program Code: ECPE, Academic Year 2024-2025

Total credits required for the degree: 128

#### Core Requirements: 57 credits

- CS 1121 (3) and CS1122 (3)
  - or CS 1131 (5)
- CS 1142 (3)
- CS 2311 (3)
- CS 2321 (3)
- CS 3411 (3)
- CS 4321 (3)
- EE 2111 (3)
- EE 2112 (4)
- EE 2174 (4)
- EE 3131 (4)
- EE 3160 (3)
- EE 3172 (3)
- EE 3173 (4)
- EE 3901 (2)
- EE 4173 (3)
- EE 4272 (3)
- ENG 1101 (3)
  - or ENG 1001 (2) and ENG 1100 (2)

#### Math and Science: 23 credits

- MA 1121 (4) or MA 1160 (4) or MA 1161 (5)
- MA 2160 (4)
- MA 2321 (2) or MA 2320 (2)
- MA 3521 (2) or MA 3520 (2)
- MA 3710 (3)
- PH 1100 (1)
- PH 1200 (1)
- PH 2100 (3)
- PH 2200 (3)

#### Directed Math/Science Elective: 5 credits

##### 2nd discipline STEM Science course: minimum 3 credits

- BL 1400 (3) or GE2000 (3), or
- CH 1150 (3) and CH1151 (1)

##### Choose remaining Directed Math/Science Elective: 2 cr.

MA2600, 2910, MA3XXX or higher (excluding MA3720, 3750, 3810, 3811, 3990, 4810, 4820, 4905, 4945); BL1100 or higher (excluding BL1580, 1590, 1710, 1800, 3970, 3990); CH1500 or higher; PH1090, 1091, 1600, 1610, 2300 or higher; EE3180

#### Technical Electives: 5 to 6 credits

6 credits are required if CS1131 is taken in Core Requirements. (ENG1102 if taken with FY program). Select courses from the technical electives course list below.

- CS3141, CS3311, CS3331, CS3425, CS3712
- CS4001-4999 (excluding CS4090, 4099, 4431, 4791, 4792)
- CS5000-5899 (excluding CS5090, 5091)
- EE3090-3999 and EE4001-4799 (excluding EE3171, 3901)
- EE5000-7999 (excluding EE5290, 5975, 5990, 5991, 5992, 6975)
- MA3202, MA3203, MEEM4707

#### Concentration Requirements: 12 credits

##### Enterprise Project Courses: 6 credits

- ENT 3950 (1)
- ENT 3960 (1)
- ENT 4950 (2)
- ENT 4960 (2)

##### Enterprise Teaming and Communication: 3 credits

- ENT 2961 (2)
- ENT 2962 (1)

##### Enterprise Instructional Modules: 3 credits

- ENT3954, ENT3956, ENT3961, ENT3963, ENT3966, ENT3967, ENT3971, ENT3982, ENT3983, ENT4951, ENT4954

#### Free Electives: 2 credits

Any coursework is allowable, excluding co-curricular and coursework below the 1000- level.

### **General Education Core, Humanities, Fine Arts, and Social Science (HASS) Requirements: 24 credits**

Courses used to complete Core and HASS requirements may not be used to complete other degree requirements. Students must complete 12 credits of Core coursework and 12 credits of Humanities, Fine Arts, and Social Science (HASS) coursework. Repeatable courses may not be repeated for general education credit. Core and HASS courses can be found on the [General Education](#) page.

#### **Core: 12 credits**

- UN 1015 (3)
- UN 1025 or an upper level modern language (3)
- Critical and Creative Thinking (3)
- Social Responsibility and Ethical Reasoning (3)

#### **HASS: 12 credits, six of the 12 credits must be at the 3000- or 4000- level**

- Communication/Composition (minimum 3 credits)
- Humanities and Fine Arts (minimum 3 credits)
- Social and Behavioral Sciences (minimum 3 credits)
- Any course from the General Education Core, HASS, or Restricted HASS [course list](#) (0 to 3 credits)

#### **Co-curricular Activities: 3 credits**

Required for graduation, but not included in the GPA calculation or in the overall credits required for the degree. Only courses on the co-curricular course list are eligible. Half (0.5) credit courses may be repeated to a maximum of one time for co-curricular credit. Find eligible courses on the [General Education](#) page.