

**Michigan Technological University**

**Bachelor of Science Degree Audit**

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

Program Code ECPE, Academic Year 2020-21

Total credits required for the degree: 128

**Core Requirements: 57 credits**

Course	Credits
CS 1121 or CS 1131	3/5
CS 1122 (not required if CS 1131 is taken)	3
CS 1142	3
CS 2311	3
CS 2321	3
EE 3160	3
CS 3411	3
CS 3421	3
CS 4321	3
EE 2111	3
EE 2112	4
EE 2174	4
EE 3131	4
EE 3173	4
EE 3901	2
EE 4173	3
EE 4272	3
ENG 1101 or ENG 1001 and ENG 1100	3/4

**Math and Science: 23 credits**

Course	Credits
MA 1160 or MA 1161	4/5
MA 2160	4
MA 2321	2
MA 3521	2
MA 3710	3
PH 1100	1
PH 1200	1
PH 2100	3
PH 2200	3

**Free Electives: 2 credits**

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

Course	Credits

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

STEM 2<sup>nd</sup> discipline Science Course: 3 credits minimum

Course	Credits
BL 1400 or (CH 1150 and CH 1151) or GE 2000	3/4

Choose remaining Directed Math/Science Elective:

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

Course	Credits
	2

**Technical Electives: 5 credits**

(6 credits if CS1131 is taken. ENG1102 if taken with FY program)

CS3141, 3311, 3331, 3425, 3712  
 CS4001-4999 (excluding CS4090, 4099, 4431, 4791, 4792)  
 CS5000-5899 (excluding CS5090, 5091)  
 EE3090-3999 and EE4001-4799 (excluding EE3171, 3901)  
 EE5000-7999 (excluding EE4994, 5290, 5975, 5990, 5991, 5992, 6975)  
 MA3202, 3203, MEEM4707  
 UN3002 (up to 2 credits)

Course	Credits

**Concentration Requirements: 12 credits**

Enterprise Project Work: 6 credits

Course	Credits
ENT 3950	1
ENT 3960	1
ENT 4950	2
ENT 4960	2

Enterprise Teaming and Communication: 3 credits

Course	Credits
ENT 2961	2
ENT 2962	1

Enterprise Instructional Modules: 3 credits

ENT3954, ENT 3956, ENT3961, ENT3963, ENT3966, ENT3967, ENT3971, ENT3982, ENT3983, ENT4951, ENT4954

Course	Credits
	1
	1
	1

### General Education Core and HASS

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

Course	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 HASS credits must be at the 3000 or 4000 level (an upper division language course in place of UN1025 does not meet this requirement). No more than three credits may come from the HASS Restricted course list.

Course	Credits
Communication/ Composition	Minimum 3
Humanities and Fine Arts	Minimum 3
Social and Behavioral Sciences	Minimum 3
Course from any list above or from the Restricted HASS course list	0 to 3

#### 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 credit (0.5) courses may be repeated to a maximum of one time for co-curricular credit. Find eligible courses on the [General Education](#) page.

Course	Credits