

Michigan Technological University**Bachelor of Science Degree Audit****Major Program: Software Engineering**

Program Code: SSEN, Academic Year 2021-22

Total credits required for the degree: 125

Required Courses: 53 to 54 credits

Course	Credits
CS 1000	1
CS 1121 and CS 1122 or CS 1131	6/5
CS 1142	3
CS 2311 or MA 3210	3
CS 2321	3
CS 3000	2
CS 3141	3
CS 3311	3
CS 3331	3
CS 3411	3
CS 3421	3
CS 3425	3
CS 3712	3
CS 4321	3
CS 4710	3
CS 4711	3
CS 4760	3
HU 3120	3

Choose one of the following two options: 6 credits

Course	Credits
Option 1	
CS 4791	3
CS 4972	3
Option 2	
ENT 3950	1
ENT 3960	1
ENT 4950	2
ENT 4960	2

Math Requirements: 14 to 16 credits

Course	Credits
MA 1160 or MA 1161	4/5
MA 2160	4
MA 2330	3
MA 2720/3710	4/3

STEM Lab Science: 7 credits

Courses taken to meet STEM Lab/Science must be from the approved STEM Science course list. Two different disciplines (BL, CH, KIP, FW, GE, PH, SS) are required and at least one course must include or be taken with the accompanying lab.

Course	Credits

Science Elective or MA3xxx: 3 or 4 credits

Take a 3000-level or higher math course, or courses taken to meet STEM Lab/Science must be from the approved STEM Science course list, or one of the following: BL1200 and BL1210, CH1160, or PH1210.

Course	Credits

Technical Electives: 9 credits

Course	Credits

Note: Science and Math should total 26 credits overall**Free Electives: 5 to 9 credits**

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

Course	Credits

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