

Michigan Technological University Bachelor of Science Degree Audit

Major Program: Computer Science, Concentration: Applications

Program Code: SCS1, Academic Year 2023-2024

Total credits required for the degree: 123

Core Requirements: 55 to 58 credits

- CS 1000 (1)
- CS 1131 (5) or CS 1121 and CS 1122 (6)
- CS 1142 (3)
- CS 2311(3) or MA 3210 (3)
- CS 2321 (3)
- CS 3000 (3)
- CS 3141 (3)
- CS 3311 (3)
- CS 3331 (3)
- CS 3411 (3)
- CS 3421 (3)
- CS 3425 (3)
- CS 4121 (3)
- CS 4321 (3)
- HU 3120 (3)
- MA 1160 (4) or MA 1161 (5)
- MA 2330 (3)
- MA 2720 (4) or MA 3710 (3) or MA 3720

Technology and Society: 3 credits

Select one of the following: HU3701, HU3710, HU3810, MA4945, SS3510, SS3511, SS3520, SS3530, SS3580, SS3581, SS3630, SS3640, SS3800, SS3801

Lab Science Requirements: 7 credits minimum

Students must complete two science courses in two different disciplines (BL, CH, KIP, FW, GE, PH, SS) from the general education science course list; at least one of these must include or be taken with the accompanying laboratory. Find eligible courses on the [General Education](#) webpage.

Concentration Requirements: 22 to 25 credits

4000- level CS course: 3 credits

- CS 4XXX (3)

Applications courses: 13 to 16 credits

Applications courses must be approved by the undergraduate curriculum committee.

Depending on the application area, up to 7 additional math credits may be required. See academic advisor.

Technical Electives: 6 credits

See academic advisor for a list of approved technical electives to choose from.

Free Electives: 6 to 12 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.