

Michigan Technological University**Bachelor of Science Degree Audit****Major Program: Computational Chemistry and Chemical Informatics**

Program Code SCCC, Academic Year 2021-22

Total credits required for the degree: 125

Required Courses: 39 to 40 credits

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|--------------------|-----|
| CH 1150 | 3 |
| CH 1151 | 1 |
| CH 1153 | 1 |
| CH 1160 | 3 |
| CH 1161 | 1 |
| CH 1163 | 1 |
| CH 1130 | 1 |
| CH 2130 | 2 |
| CH 2212 or MA 2720 | 5/4 |
| CH 2411 | 1 |
| CH 2430 | 3 |
| CH 2440 | 3 |
| CH 2510 | 3 |
| CH 3130 | 1 |
| CH 3510 | 3 |
| CH 3520 | 3 |
| CH 4130 | 2 |
| CH 4710 or CH 4310 | 3 |

Computer Science: 21 credits

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|---------|---|
| CS 1121 | 3 |
| CS 1122 | 3 |
| CS 1142 | 3 |
| CS 2311 | 3 |
| CS 2321 | 3 |
| CS 3425 | 3 |
| CS 4321 | 3 |

Math and Physics Requirements: 24 credits

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|---|---|
| MA 1160 | 4 |
| MA 2160 | 4 |
| MA 3160 | 4 |
| MA 2321 and MA 3521 or MA 2320 and MA 3520 | 4 |
| PH 1100 | 1 |
| PH 1200 | 1 |
| PH 2100 | 3 |
| PH 2200 | 3 |

Major Approved Electives: Choose 6 credits

| | |
|--|---|
| CH 2421 | 2 |
| CH 3511 | 2 |
| CH 3521 | 2 |
| CH 4110 | 3 |
| CH 4120 | 3 |
| CH 4212 | 5 |
| CH 4320 | 3 |
| CH 4412 | 3 |
| CH 4430 | 3 |
| CH 4535 | 3 |
| CH 4560 | 3 |
| CH 4610 | 3 |
| CH 4710 or CH 4310 (select course not already taken in left column) | 3 |
| CH 4720 | 3 |
| CH 4990 | 6 |

Choose 3 credits:

| | |
|---------|---|
| CS 3141 | 3 |
| CS 3331 | 3 |
| CS 3421 | 3 |
| FW 4099 | 3 |
| MA 3210 | 3 |
| MA 4208 | 3 |
| MA 4209 | 3 |
| MA 4720 | 3 |
| MA 4760 | 3 |
| MA 4770 | 3 |

Free Electives: 7 to 8 credits

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

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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 |
|--------|---------|
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