

## Michigan Technological University Bachelor of Science Degree Audit

### Major Program: Computational Chemistry and Chemical Informatics

Program Code: SCCC, Academic Year 2022-2023

Total credits required for the degree: 125

#### Required Courses: 48 to 49 credits

- 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 (5) or MA 2720 (4)
- CH 2411 (1)
- CH 2430 (3)
- CH 2440 (3)
- CH 2510 (3)
- CH 2990 (2)
- CH 3130 (1)
- CH 3510 (3)
- CH 3520 (3)
- CH 4130 (2)
- CH 4560 (3)
- CH 4710 (3) or CH 4310 (3)
- CH 4990 (4)

#### Computer Science: 12 credits

- CS 1121 (3)
- CS 1122 (3)
- CS 2311 (3)
- CS 2321 (3)

#### Math and Physics Courses: 24 credits

- MA 1160 (4)
- MA 2160 (4)
- MA 2321 (2) and MA 3521 (2)
  - or MA 2320 (2) and MA 3520 (2)
- MA 3160 (3)
- PH 1100 (1)
- PH 1200 (1)
- PH 2100 (3)
- PH 2200 (3)

#### Major Approved Electives: 9 credits

##### *Choose 3 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 (3) or CH 4310 (3) *course not already taken in required area*
- CH 4720 (3)
- CH 4990 (6)

##### *Choose 6 credits*

- CH 1142 (3)
- CS 3141 (3)
- CS 3331 (3)
- CS 3421 (3)
- CS 3425 (3)
- CS 4321 (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.

### **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, at least 6 of the 12 credits must be at the 3000-level 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.