

**Michigan Technological University**  
**Bachelor of Science Degree Audit**  
**Major Program: Pharmaceutical Chemistry**  
 Program Code SCHP, Academic Year 2021-22  
 Total credits required for the degree: 128

**Core Requirements: 68 credits**

| Course   | Credits |
|--|---------|
| BL 1400  | 3       |
| BL 1410  | 1       |
| BL 4070  | 3       |
| 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 2411  | 1       |
| CH 2421  | 2       |
| CH 2430  | 3       |
| CH 2440  | 3       |
| CH 3130  | 1       |
| CH 3510  | 3       |
| CH 3511  | 2       |
| CH 3520 and CH 3521<br>or<br>CH 3540 and CH 3541 | 5       |
| CH 4110  | 3       |
| CH 4120  | 3       |
| CH 4130  | 2       |
| CH 4222  | 5       |
| CH 4412  | 3       |
| CH 4710  | 3       |
| CH 4720  | 3       |
| CH 4721  | 3       |
| CS 1121  | 3       |

**Math and Physics: 26 credits**

| Course  | Credits |
|---------|---------|
| MA 1160 | 4       |
| MA 2160 | 4       |
| MA 2320 | 2       |
| MA 2720 | 4       |
| MA 3160 | 4       |
| PH 1100 | 1       |
| PH 1200 | 1       |
| PH 2100 | 3       |
| PH 2200 | 3       |

**Major Approved Electives: Select 3 to 6 credits**

| Course   | Credits |
|--|---------|
| BL 2200  | 3       |
| BL 3210  | 4       |
| BL 3300  | 3       |
| BL 4020  | 3       |
| BL 4030  | 3       |
| BL 4140  | 3       |
| CH 4310<br><i>CH4310 may be taken without the lab</i>          | 3       |
| CH 4311 and CH 4310<br><i>CH4311 must be taken with CH4310</i> | 5       |
| CH 4430  | 3       |
| CH 4535  | 3       |
| CH 4560  | 3       |
| CH 4610  | 3       |
| CH 4990  | 6       |

**Free Electives: 4 to 7 credits**

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

| Course | Credits |
|--------|---------|
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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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