

Michigan Technological University
Bachelor of Science Degree Audit
Major Program: Chemistry, Concentration: Chemical Physics
 Program Code: SCH4, Academic Year 2019-20
 Total credits required for the degree: 128

Chemistry Courses: 53 credits

Course	Credits
CH 1150 and CH 1151 and CH 1153 OR CH 1112	5
CH 1160 and CH 1161 and CH 1163 OR CH 1122	5
CH 1130	1
CH 2130	2
CH 2212	5
CH 2410	3
CH 2411	1
CH 2420	3
CH 2421	2
CH 3130	1
CH 3510	3
CH 3511	2
CH 3520	3
CH 3521	2
CH 4130	2
CH 4212	5
CH 4310	3
CH 4311	2
CH 4710	3

Math and Physics: 22 credits

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

Concentration Requirements: 22 to 23 credits

Course	Credits
CH 4560	3
PH 2300	2
PH 2400	3
PH 3300	3
PH 3410	3
MA 3530 or MA 3520	3/2

Choose from the following: 5 to 6 credits

Course	Credits
CH 4535	3
CH 4990	6
MA 4410	3
MA 4515	3
PH 3110	3
PH 3210	3
PH 3411	3
PH 4210	3
PH 4510	2

Free Electives: 6 to 7 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