

**Michigan Technological University****Bachelor of Science Degree Audit****Major Program: Biochemistry and Molecular Biology, Biology Focus**

Program Code SMBB, Academic Year 2021-22

Total credits required for the degree: 120

**Biology Requirements: 24 to 25 credits**

Course	Credits
BL 1100 and BL 1110	3 1
BL 1200 and BL 1210	3 1
BL 2200 and BL 2210	3 1
BL 3210 (4) or BL 3310 (3)	3/4
BL 3300	3
BL 4030	3
BL 4840	3

**Chemistry Requirements: 23 credits**

Course	Credits
CH 1150 and CH 1151	4
CH 1160 and CH 1161	4
CH 2430 and CH 2411	4
CH 2440 and CH 2421	4
CH 3510	3
CH 3540	3

**Mathematics Requirements: 8 to 9 credits**

Course	Credits
MA 1160 OR MA 1161	4/5
MA 2160	4

**Physics Requirements: 8 credits**

Course	Credits
PH 1100 and PH 2100	4
PH 1200 and PH 2200	4

**Concentration Requirements: 27 to 29 credits****Concentration Courses: 20 credits**

Course	Credits
BL 1580	1
BL 2700	3
BL 3012	3
BL 3030	3
BL 3782	2
BL 3820	2
BL 4020	3
MA 3715	3

**Biology Capstone Requirement: 4 credits**

*Research credits in Biochemistry (BL 4995) may be taken individually and require arrangement with the instructor. Additional research credits beyond the capstone requirement count as free elective credits.*

Course	Credits
BL 4995 and BL 4530	4

**Biochemistry and Molecular Biology Elective: 3-5 credits**

*Select one of the following approved Biology electives:*

BL3220, 3490, 3640, 4035, 4038, 4052, 4070, 4120, 4135, 4140, 4145, 4200, 4300, 4370, 4410, 4550, 4752, 4800

Course	Credits

**Free Electives: 2 to 6 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