

Michigan Technological University
Bachelor of Science Degree Audit
Major Program: Biological Sciences
 Program Code SBL, Academic Year 2021-22
 Total credits required for the degree: 120

Biology Requirements: 14 credits

Course	Credits
BL 1100	3
BL 1110	1
BL 1200	3
BL 1210	1
BL 2200	3
BL 2210	1
BL 3782	2

Chemistry Requirements: 17 credits

Course	Credits
CH 1150	3
CH 1151	1
CH 1160	3
CH 1161	1
CH 2410	3
CH 2411	1
CH 2420	3
CH 2421	2

Mathematics Requirements: 7 credits

Course	Credits
MA 1135	4
MA 3715	2

Physics Requirements: 8 credits

Course	Credits
PH 1110	3
PH 1111	1
PH 1210	3
PH 1200	1

Biology Capstone Requirement: 2 to 3 credits

Select either Biology Capstone option. Research credits in Biology (BL 4000/4001) 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 4510	2
BL 4000 or BL 4001 and BL 4530	3

Required Biology Courses: 11 credits

Course	Credits
BL 1580	1
BL 3012	3
BL 3020	3
BL 3490	4

Biology lab course requirement: 4 credits

Choose one course (or set) with a lab option

Course	Credits
BL 2010 and BL 2011	4
BL 2020 and BL 2021	4
BL 2160	4
BL 2170	4

Cellular and Organismal Track Requirements

Choose at least one lab course from either Track

Cellular Track: Select a minimum of 6 credits

Lab Courses: BL 3210, BL 3310, BL 3820, BL 4035, BL 4042, BL 4052, BL 4062, BL 4120, BL 4135, BL 4145, BL 4720 and BL 4730, BL 4800, BL 4840

Other Courses: BL 3220, BL 3300, BL 3640, BL 4020, BL 4030, BL 4038, BL 4070, BL 4200, BL 4300, BL 4370, BL 4400, BL 4410, BL 4752

Course	Credits

Organismal Track: Select a minimum of 6 credits

Lab Courses: BL 3230, BL 3780, BL 3999, BL 4036, BL 4090, BL 4141, BL 4145, BL 4421, BL 4440, BL 4447, BL 4450, BL 4550

Other Courses: BL 3010, BL 3044, BL 4034, BL 4044, BL 4140, BL 4380, BL 4452, BL 4461, BL 4465, BL 4640

Course	Credits

Free Electives: 20 to 21 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