

Michigan Technological University
Bachelor of Science Degree Audit
Major Program: Biological Sciences, Concentration: General
Program Code: SBL1, Academic Year 2018-19
Total credits required for the degree: 128

Biology Requirements: 26 credits

| Course | Credits |
|---------|---------|
| BL 1010 | 4 |
| BL 1020 | 4 |
| BL 2100 | 3 |
| BL 2200 | 3 |
| BL 3012 | 3 |
| BL 3190 | 3 |
| BL 3400 | 4 |
| BL 3782 | 2 |

Chemistry Requirements: 19 credits

| Course | Credits |
|---------------------------------------|-------------|
| CH 1150 and CH 1151 and CH 1153 | 3 1 1 |
| CH 1160 and CH 1161 and CH 1163 | 3 1 1 |
| CH 2410 and CH 2411 | 3 1 |
| CH 2420 and CH 2421 | 3 2 |

Mathematics Requirements: 7 credits

| Course | Credits |
|---------|---------|
| MA 1135 | 4 |
| MA 3715 | 3 |

Physics Requirements: 8 credits

| Course | Credits |
|------------------------|---------|
| PH 1110 and PH 1111 | 3 1 |
| PH 1210 and PH 1200 | 3 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 or (BL 4000 or BL 4001) and BL 4530 | 2 2 1 |

Concentration Requirements: 18 to 22 credits

| Course | Credits |
|---------|---------|
| BL 1580 | 1 |

Select one course and lab option:

| Course | Credits |
|------------------------|---------|
| BL 2010 and BL 2011 | 3 1 |
| BL 2020 and BL 2021 | 3 1 |
| BL 2160 | 4 |
| BL 2170 | 4 |
| BL 2210 | 1 |

Cellular and Organismal Track Requirements: 12 credits

6 credits from each track are required. At least one course from either the Cellular or Organismal Tracks must be a lab.

[Cellular Course List:](#)

Lab Courses: BL 3210, BL 4720 and BL 4730, BL 4800, BL 4840

Other Courses: BL 3220, BL 3300, BL 3640, BL 4010, BL 4020, BL 4030, BL 4035, BL 4370, BL 4752

| Course | Credits |
|--------|---------|
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[Organismal Course List:](#)

Lab Courses: BL 3230, BL 3780, BL 4090, BL 4145, BL 4421, BL 4550

Other Courses: BL 3010, BL 4044, BL 4140, BL 4380, BL 4465, BL 4640

| Course | Credits |
|--------|---------|
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If needed, take additional Biology course work (not already taken) to reach a minimum of 18 credits from the course list below:

BL 2001, 2010, 2011, 2020, 2021, 2210, 2160, 2170, 2700, 2940, 3010, 3210, 3220, 3230, 3300, 3640, 3780, 3970, 4010, 4020, 4030, 4034, 4035, 4036, 4038, 4042, 4044, 4052, 4062, 4070, 4090, 4120, 4140, 4145, 4200, 4370, 4380, 4421, 4440, 4450, 4995

| 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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Free Electives: 19 to 24 credits

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

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