# CELLULAR, MOLECULAR, AND MICROBIAL BIOLOGY M.S. - MICROBIAL EVOLUTION AND ECOLOGY

## General Graduate Program Requirements

Graduate School policies and standards can be found on the Graduate School Policies page (https://catalog.umt.edu/graduate/school-policies/).

The minimum GPA for any graduate program is 3.0. Individual programs may require more than a 3.0 to remain in good standing.

The minimum grade for a course to be accepted toward any master's or doctoral requirement is C. The minimum grade for a course to be accepted toward a certificate program is B-. Individual programs may require higher grades for specific courses.

## Master of Science - Cellular, Molecular, and Microbial Biology; Microbial Evolution and Ecology Concentration

- All CMMB M.S. students have a common set of requirements: students must take a total of 30 semester credits, including 20 semester credits of courses (includes any course other than Thesis and Research).
- At least half of the non-thesis and non-research credits toward the degree must be at the 500 or 600 level.
- The following credit limitations apply:
  - A maximum of 6 credits of Special Topics (BCH 591, BIOB 591 and BIOM 591).
  - A maximum of 6 credits of Independent Study (BIOB 592, and BIOM 592).
  - A maximum of 10 credits of research and thesis (BCH 590, BIOB 590, BCH 599, and BIOM 599).

## Course Requirements

| Code | Title | Hours |
| --- | --- | --- |
| **Core Courses** | | |
| Complete all of the following courses: | | |
| BCH 570 | Intro to Research | 1 |
| or BIOM 570 | Intro to Research | |
| BIOB 547 | Experimental Molecular, Cellular, and Chemical Biology | 2 |
| BIOM 594 | Molecular and Biomedical Sciences Seminar | 4 |
| **Electives, Research, and Thesis** | | |
| Complete 23 credits of elective courses. | | 23 |
| Elective courses can include any graduate-level course in General Biology (BIOB), Microbiology (BIOM), and Biochemistry (BCH). Suggested courses include: | | |
| BCH 582 | Proteins and Enzymes | |
| BCH 584 | Nucleic Acids | |
| BCH 590 | Research | |
| or BIOM 590 | Research | |
| BCH 599 | Thesis | |
| or BIOM 599 | Thesis | |
| **Total Hours** | | **30** |