The Division of Biological Sciences has undergraduate and graduate programs representing the full range of the biological sciences. The Division offers Bachelor's degrees in:

- Biology (with a broad array of formal concentrations described in more detail below).
- Medical Laboratory Science,
- Microbiology including microbial ecology,
- Wildlife Biology (a cooperative program administered by the College of Forestry and Conservation), and
- Biochemistry (an interdepartmental degree administered by the Chemistry Department).

The Division offers Bachelor's degrees in biology for students interested in:

- Human biological sciences: Provides a strong background in the biological sciences for students interested in pursuing further study in a health sciences professional program.

The Division also offers a Bachelor of Arts degree in Biology with the following concentrations:

- Natural history: For students who would like to combine basic natural history and biological sciences with another field such as art, journalism, or creative writing.
- Biological Education and General Sciences Broadfield: Two separate options designed for students interested in a career teaching biology or all sciences at the secondary (middle or high school) level.

The Division also offers a Bachelor of Science degree in Microbiology. Microbiology is the study of microorganisms, including bacteria, yeasts, molds, viruses, protozoa and other microscopic parasites. The Bachelor's degree in Microbiology is offered as a general degree or with a concentration in microbial ecology. The general concentration emphasizes microbial structure, function, and interactions and relationships with humans. The microbial ecology concentration emphasizes microbial structure, function, and interactions and relationships with the environment and other organisms.

The Division also offers a Bachelor of Science degree in Medical Laboratory Science (Michael Minnick, Professor of Microbiology, Advisor). Medical Laboratory Science (http://hs.umt.edu/medtech) or clinical laboratory science is a combined study of chemistry, physiology and microbiology. A medical laboratory scientist performs chemical, microscopic, and microbiological procedures used in the diagnosis, study and treatment of human disease. Medical laboratory scientists are in high demand in hospitals, clinical labs, research institutions and government health departments. Certification is required for clinical practice.

To become certified, a student, after satisfying the minimum course requirements, completes a clinical practicum of at least 12 consecutive months in a school of medical laboratory science accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS). After completing a clinical practicum and passing the American Society for Clinical Pathology (ASCP) Board of Certification examination, the student is certified as a Medical Laboratory Scientist [MLS(ASCP)].

The University of Montana has two coursework tracks for the Medical Laboratory Science B.S. degree. The 3+1 track includes the practicum at one of our affiliated programs as part of the degree, while the practicum is not included in the 4+1 track.

Degree requirements for all three majors and courses are described below (see the College of Forestry and Conservation for information about Wildlife Biology and the Biochemistry Program in the College of Humanities and Sciences for information about Biochemistry).

The Division of Biological Sciences is committed to providing coursework and experiences for non-science majors. The world faces many problems and opportunities that include significant biological components. Courses for non-science majors have the goal of fostering understanding of the process of science and enhancing biological knowledge as it relates to environmental, medical, social, and other issues. A number of introductory courses are open both to majors and non-majors. In addition, the Division offers courses designed specifically for non-majors: Microbiology for Health Sciences, Introductory Ecology, Survey of Montana Wildlife and Habitats, and others.
Undergraduate

• Biology B.A. (http://catalog.umt.edu/colleges-schools-programs/humanities-sciences/biological-sciences/ba)
• Biology B.A., Biological Education Concentration (http://catalog.umt.edu/colleges-schools-programs/humanities-sciences/biological-sciences/ba-biological-education)
• Biology B.A., Natural History Concentration (http://catalog.umt.edu/colleges-schools-programs/humanities-sciences/biological-sciences/ba-natural-history)
• Biology B.S., Cellular & Molecular Biology Concentration (http://catalog.umt.edu/colleges-schools-programs/humanities-sciences/biological-sciences/bs-cellular-molecular-biology)
• Biology B.S., Ecology and Organismal Biology Concentration (http://catalog.umt.edu/colleges-schools-programs/humanities-sciences/biological-sciences/bs-ecology-organismal-biology)
• Biology B.S., Field Ecology Concentration (http://catalog.umt.edu/colleges-schools-programs/humanities-sciences/biological-sciences/bs-field-ecology)
• Biology B.S., Genetics and Evolution Concentration (http://catalog.umt.edu/colleges-schools-programs/humanities-sciences/biological-sciences/bs-genetics-evolution)
• Biology B.S., Human Biological Sciences (http://catalog.umt.edu/colleges-schools-programs/humanities-sciences/biological-sciences/bs-human-biological-sciences)
• Medical Laboratory Science B.S. (http://catalog.umt.edu/colleges-schools-programs/humanities-sciences/biological-sciences/bs-medical-laboratory-science)
• Microbiology B.S. (http://catalog.umt.edu/colleges-schools-programs/humanities-sciences/biological-sciences/bs-microbiology)
• Microbiology B.S., Microbial Ecology Concentration (http://catalog.umt.edu/colleges-schools-programs/humanities-sciences/biological-sciences/bs-microbial-ecology)

Undergraduate Minors

• Biology (http://catalog.umt.edu/colleges-schools-programs/humanities-sciences/biological-sciences/minor-biology)
• Microbiology (http://catalog.umt.edu/colleges-schools-programs/humanities-sciences/biological-sciences/minor-microbiology)