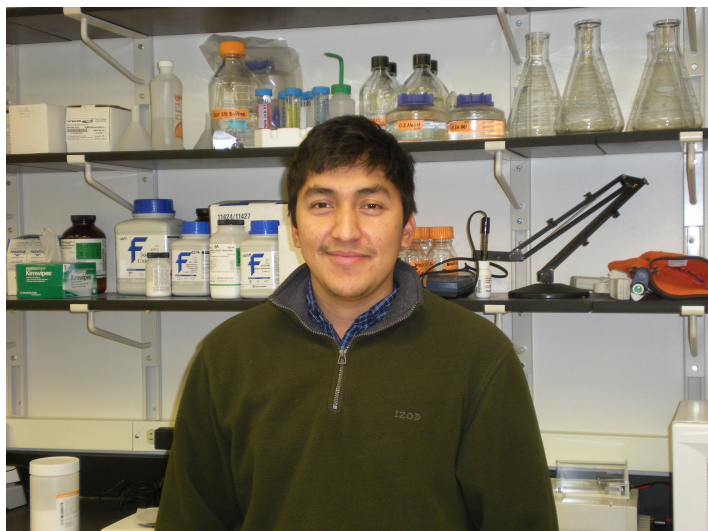# MAJOR IN BIOLOGICAL SCIENCE, BIOLOGICAL SCIENCE CONCENTRATION

This curriculum provides a broad background in the basic biological sciences, and permits students to select courses in areas of particular interest. The major is especially useful in meeting the pre-professional requirements in the biosciences. Students desiring this preparation should also check the appropriate pre-professional requirements.

The curriculum includes a two-semester introductory biology sequence, cell biology, developmental biology, ecology, evolution, and genetics. Required courses in the physical sciences include a minimum of one year in introductory chemistry and in physics (with labs), and at least one course in organic chemistry (with lab), and one in biochemistry. A calculus course and a statistics course are also required. In addition, students must complete a minimum of 18 upper-division credits of which 9 credits must be from "BZ" courses.

Learning Objectives

Students completing the Major in Biological Science with a concentration in Biological Science will attain a well-rounded education grounded in the natural sciences, with emphasis on the current state of knowledge in biology. Upon successfully completing the degree, they will be able to:

1. Attain a solid foundation in the natural sciences, with emphasis on biological processes and phenomena;
2. Demonstrate a fundamental understanding of biological concepts, processes, and phenomena that are broadly applicable to organisms, and a detailed understanding of knowledge relevant to specific fields of biology of interest to the student;
3. Demonstrate strong analytical, mathematical, and statistical skills, and the ability to apply these appropriately in biological contexts;
4. Demonstrate the ability to analyze, synthesize, integrate, and evaluate material from biology and related fields, and effectively communicate such information.

Department of Biology Undergraduate Programs (https://www.biology.colostate.edu/undergraduate-students/)