

BIOLOGY MAJOR

Requirements

Degree Requirements

This major is available as a bachelor of arts or bachelor of science degree, as defined in the section on degree requirements (<http://catalog.linfield.edu/degrees-and-programs/undergraduate/ba-bs-bsn/>) for all majors in this catalog.

Major Requirements

38 credits from within the department, plus an additional 16 CHEM credits, for a combined total of 54 credits:

Code	Title	Credits
BIOL 210	PRINCIPLES OF BIOLOGY ^{2,3}	4
BIOL 211	PRINCIPLES OF BIOLOGY ^{2,3}	4
BIOL 270	GENETICS ³	5
BIOL 285	PRINCIPLES OF ECOLOGY ³	5
BIOL 400	MOLECULAR CELL BIOLOGY ³	5
BIOL 450	EVOLUTION ³	5
BIOL 486	SENIOR COMPREHENSIVE EXAM	1
Select nine additional BIOL credits from courses numbered 220 or higher. ¹		9
Biology Major also requires:		
CHEM 210	GENERAL CHEMISTRY	4
CHEM 211	GENERAL CHEMISTRY	4
CHEM 321	ORGANIC CHEMISTRY	4
CHEM 322	ORGANIC CHEMISTRY	4
Total Credits		54

¹ No more than a total of 5 credits from the following may apply towards a Biology major or minor: BIOL 220, BIOL 480, BIOL 487, BIOL 490.

² For either a major or minor, students with an AP Biology test score of 4 or 5, or with a score of 5 or higher on the International Baccalaureate subject exam in biology, receive 4 elective credits of Biology. They are not exempt from taking BIOL 210 and BIOL 211.

³ Biology majors are required to earn a grade of C- or higher in this course.

STUDENT LEARNING OUTCOMES

- an understanding of the basic principles and concepts of biology;
- an advanced level of competence in four areas of biology: hereditary biology, cell biology, ecology, and evolutionary biology;
- the ability to think critically and quantitatively;
- the ability to synthesize information from a variety of different sources; and
- the ability to write and speak in the discipline.

Oregon Preliminary Teaching Licensure in Biology

Students also seeking an Oregon Preliminary Teaching Licensure in Biology must also complete a Secondary Education major with Licensure. In order to complete the Secondary Education major with Licensure, students should begin taking education courses no later than

their sophomore year. The student must be advised by faculty in both majors. Alternatively, students may complete a Teaching Certificate (<http://catalog.linfield.edu/programs-az/online-continuing-education/certificate-programs/secondary-education-teaching-certificate-oc/>) program at Linfield after degree completion. Students should seek advice from the Education Department Director if you are considering the post-graduation certificate option.

Students seeking teaching licensure may earn no grade lower than a C in both major **and** all licensure coursework.*

*This statement added to the catalog 12/2024, though the policy is not new.