

# BIOLOGY MAJOR

students should begin taking education courses no later than their sophomore year. The student must be advised by faculty in both majors.

## 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<sup>1</sup>:

Code	Title	Credits
BIOL 210	PRINCIPLES OF BIOLOGY <sup>2</sup>	4
BIOL 211	PRINCIPLES OF BIOLOGY <sup>2</sup>	4
BIOL 270	GENETICS	5
BIOL 285	PRINCIPLES OF ECOLOGY	5
BIOL 400	MOLECULAR CELL BIOLOGY	5
BIOL 450	EVOLUTION	5
BIOL 486	SENIOR COMPREHENSIVE EXAM	1
Select nine additional BIOL credits from courses numbered 220 or higher.		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
<b>Total Credits</b>		<b>54</b>

<sup>1</sup> 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.

<sup>2</sup> For either a major or minor, students with an AP Biology test score of 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.

## 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,