

PRE-EDUCATION BIOLOGY OPTION

This option is offered within the following major(s):

- Biology - College of Science (<http://catalog.oregonstate.edu/college-departments/science/school-life-sciences/integrative-biology/biology-bs-hbs>)

The Biology major Pre-Education option is designed to complete the requirements for the Science Education option in the OSU Education master's degree and other U.S. graduate licensure programs for secondary education. Students should consult the requirements for specific schools before they apply because requirements can change.

The option couples the strong background of the Biology major with core science education and science electives, as well as a required practicum experience. Students receive specific education advising to integrate teaching and other essential professional experiences during their time at OSU.

Options in the Biology major require 15 or fewer additional credits (one term) beyond the basic Biology major, and most students can complete the additional Pre-Education option course work in four years. Courses used to satisfy the Pre-Education option requirements also satisfy the Physics/Computer Science and Quantitative Applications and Upper-division Science Electives requirements in the Biology major.

It is recommended that Pre-Education option students take COMM 111 *PUBLIC SPEAKING to complete the Biology major OSU Baccalaureate Core communications requirement.

For further information, see MyDegrees or the Integrative Biology website at <http://ib.oregonstate.edu>.

Code	Title	Hours
Science Education Core		
ED 309	FIELD PRACTICUM (3 or more credits involving middle and/or high school experience)	3-6
HDFS 313	ADOLESCENT DEVELOPMENT	4
SED 412	TECHNOLOGY FOUNDATIONS FOR TEACHING MATH AND SCIENCE	3
SED 413 or SED 416	INQUIRY IN SCIENCE AND SCIENCE EDUCATION INQUIRY IN SCIENCE AND MATHEMATICS EDUCATION	3
Chemistry Course		
Select one of the following:		3-4
BB 493	BIOCHEMISTRY LABORATORY MOLECULAR TECHNIQUES 1	
CH 324	QUANTITATIVE ANALYSIS	
CH 390	ENVIRONMENTAL CHEMISTRY	
Physics Series		
PH 201	*GENERAL PHYSICS	5
PH 202	*GENERAL PHYSICS	5
PH 203	*GENERAL PHYSICS	5
Integrated Science Courses		
Select two of the following:		6-8
ATS 201	*CLIMATE SCIENCE	
ATS 310	METEOROLOGY	

GEO 201	*PHYSICAL GEOLOGY	
GEO 202	*EARTH SYSTEMS SCIENCE	
GEO 203	*EVOLUTION OF PLANET EARTH	
GEO 221	*ENVIRONMENTAL GEOLOGY	
GEO 305	*LIVING WITH ACTIVE CASCADE VOLCANOES	
GEO 306	*MINERALS, ENERGY, WATER, AND THE ENVIRONMENT	
GEO 307	*NATIONAL PARK GEOLOGY AND PRESERVATION	
GEO 308	*GLOBAL CHANGE AND EARTH SCIENCES	
GEOG 323	^CLIMATOLOGY	
OC 201	*OCEANOGRAPHY	
SOIL 205 & SOIL 206	SOIL SCIENCE and *SOIL SCIENCE LABORATORY FOR SOIL 205	
Total Hours		37-43

* Baccalaureate Core Course (BCC)

^ Writing Intensive Course (WIC)

Option Code: 226