

# INTEGRATED SCIENCE TEACHING OPTION

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

- Education - College of Education (<http://catalog.oregonstate.edu/college-departments/education/education-ba-bs-hba-hbs/>)

This option is for students wishing to earn a bachelor's degree in Education and qualify for an Oregon Teaching License to teach integrated science at the middle school (grades 6–9) and/or high school (grades 9–12) levels.

For more information, contact the College of Education Student Services Advisor, 104 Furman Hall, 541-737-4661.

## Option Code: 67

Students must meet all standards in this option by completing the required courses prior to beginning the Professional Level. Note: Most of these courses will also meet requirements in a student's first degree.

Additional option requirements:

- A cumulative 3.0 GPA is preferred for all required courses. Grades below C- are not accepted.
- All required courses must be letter graded (A–F); courses graded on Pass/No Credits (P/N) or Satisfactory/Unsatisfactory (S/U) basis are not accepted.

Code	Title	Credits
<b>Standard 1. Physics Sequence</b>		
Select one of the following physics series:		15
Series 1		
PH 201 & PH 202 & PH 203	*GENERAL PHYSICS and *GENERAL PHYSICS and *GENERAL PHYSICS	
Series 2		
PH 211 & PH 221	*GENERAL PHYSICS WITH CALCULUS and RECITATION FOR PHYSICS 211	
PH 212 & PH 222	*GENERAL PHYSICS WITH CALCULUS and RECITATION FOR PHYSICS 212	
PH 213 & PH 223	*GENERAL PHYSICS WITH CALCULUS and RECITATION FOR PHYSICS 213	
<b>Standard 2. Chemistry Sequence</b>		
Select one of the following chemistry series:		15
Series 1		
CH 231 & CH 261	GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY 231	
CH 232 & CH 262	GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY 232	
CH 233 & CH 263	GENERAL CHEMISTRY and *LABORATORY FOR CHEMISTRY 233	
Series 2 (for Chemistry majors)		
CH 231 & CH 271	GENERAL CHEMISTRY and *LABORATORY FOR CH 231 FOR CHEMISTRY MAJORS	
CH 232 & CH 272	GENERAL CHEMISTRY and *LABORATORY FOR CH 232 FOR CHEMISTRY MAJORS	
CH 233 & CH 273	GENERAL CHEMISTRY and *LABORATORY FOR CH 233 FOR CHEMISTRY MAJORS	
<b>Standard 3. Biology Sequence</b>		
Select one of the following biology series:		12

### Series 1

BI 101 & BI 102 & BI 103	*ENVIRONMENTAL BIOLOGY: ECOLOGY, CONSERVATION, GLOBAL CHANGE and *ANIMAL BIOLOGY: GENES, BEHAVIOR AND EVOLUTION OF LIFE and *HUMAN BIOLOGY: ANATOMY, PHYSIOLOGY AND DISEASE
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### Series 2

BI 221 & BI 222 & BI 223	*PRINCIPLES OF BIOLOGY: CELLS and *PRINCIPLES OF BIOLOGY: ORGANISMS and *PRINCIPLES OF BIOLOGY: POPULATIONS
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### Standard 4. Earth and Space Science

Select a minimum of 15 credits from at least two areas below:

#### Astronomy

PH 104	*DESCRIPTIVE ASTRONOMY
PH 205	*SOLAR SYSTEM ASTRONOMY
PH 206	*STARS AND STELLAR EVOLUTION
PH 207	*GALAXIES, COSMOLOGY, LIFE IN THE UNIVERSE

#### Atmospheric Sciences

ATS 201	*CLIMATE SCIENCE
ATS 310	METEOROLOGY

#### Geology

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
GEO 352	*OREGON: GEOLOGY, PLACE, AND LIFE ON THE RING OF FIRE

#### Oceanography

OC 201	*OCEANOGRAPHY
OC 332	COASTAL OCEANOGRAPHY

### Standard 5. Science Education

SED 413	INQUIRY IN SCIENCE AND SCIENCE EDUCATION	3
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Total Credits 45

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Baccalaureate Core Course (BCC)

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