

# MAJOR IN ADOLESCENCE EDUCATION - BIOLOGY (7-12)

## The Program

Code	Title	Credits
<b>Required Educational Studies Courses (12 Credits)</b>		
EDS340		3
EDS372		3
EDS383		3
SPE385		3
<b>Required Secondary Education Courses (10 Credits)</b>		
SED354		1
SED453		3
SED356		3
SED353		1
SED350		1
SED407		1
<b>Methods (3 Credits)</b>		
Select one of the following: <sup>1</sup>		3
SED370		
SED371		
SED373		
SED374		
SED375		
SED381		
<b>Student Teaching (13 Credits)</b>		
SED404		6
SED405		6
SED406		1
Total Credits		38

<sup>1</sup> Taken the semester before Student Teaching.

## Biology (7-12) Requirements

Code	Title	Credits
<b>Required Biology Courses (21-25 Credits)</b>		
BIO201		3
BIO211		1
BIO202		3
BIO212		1
BIO320		4
Select one course from each of the following content areas:		9-13
Environmental Biology:		
BIO340		
BIO301		
BIO302		
BIO303		
BIO440		
Evolution and Diversity of Life:		
BIO305		
BIO307		

BIO335		
BIO350		
BIO412		
BIO417		
BIO418		
Architecture of Life:		
BIO308		
BIO309		
BIO311		
BIO313		
BCM360		
BCM461		
<b>Biology Electives (7-9 Credits)</b>		
Select two upper-division courses		7-9
<b>Required Cognate Courses (31 Credits)</b>		
CHE201		3
CHE211		1
CHE202		3
CHE212		1
CHE318		3
CHE306		1
Select four courses from one of the following groups:		8
Group A:		
PHY221		
PHY211		
PHY222		
PHY232		
Group B:		
PHY201		
PHY211		
PHY202		
PHY212		
MAT251		4
MAT252		4
MAT241		3
Total Credits		59-65

This **eight-semester plan** (see important details (<http://catalog.newpaltz.edu/undergraduate/additional-information-about-8-semester-plans>)) is intended to guide a first-year student through a four-year undergraduate career, with completion of an academic major and all college-wide degree requirements. The plan is designed as an **advising tool** – a starting point for careful discussions between a student and his/her academic adviser. In consultation, the student and adviser will adjust the plan to accommodate the student's prerequisite needs, transferred credits, and other such variables.

Students are responsible for reviewing their Progress Reports (<https://www3.newpaltz.edu/progressreports>) each semester to track their own progress toward degree requirements.

Course	Title	Credits
<b>Year 1</b>		
<b>Fall</b>		
Gen Ed: Composition (COMP)		3

BIO201	3
BIO211	1
MAT251	4
Gen Ed: Foreign Languages (FLNG)	3
EDI293	1
Credits	15

**Spring**

Gen Ed: Humanities (HUM)	3
Gen Ed: Composition (COMP)	3
Gen Ed: Foreign Languages (FLNG)	3
BIO202	3
BIO212	1
MAT252	4
Credits	17

**Year 2****Fall**

EDS372	3
CHE201	3
CHE211	1
BIO320	3
Gen Ed: World Civilizations and Cultures (WRLD)	3
Gen. Physics or Fund. Physics course with lab <sup>1</sup>	4
Credits	17

**Spring**

Gen Ed: The Arts (ART)	3
EDS340	3
CHE202	3
CHE212	1
MAT241	3
Gen. Physics or Fund. Physics course with lab <sup>1</sup>	4
Credits	17

**Year 3****Fall**

EDS383	3
SED354	1
CHE318	3
CHE306	1
Select 2 courses from different content areas <sup>3,4,5</sup>	6-8
Credits	14-16

**Spring**

SED453	3
SED353	1
SED493	1
SPE385	3
Select one course from Content Area not yet taken <sup>6</sup>	3-4
Gen Ed: Western Civilization (WEST)	3
Credits	14-15

**Year 4****Fall**

SED356	3
SED374	3
SED350	1

Upper-level Biology elective (WI)	3-4
Upper-level Biology elective	3-4
Gen Ed: Diversity (DIVR)	3
Credits	16-18

**Spring**

SED407	1
SED405	6
SED406	1
SED404	6
Credits	14
Total Credits	124-129

- <sup>1</sup> Select PHY221 and PHY231 or PHY201 and PHY211. PHY201 General Physics 1 (NSCI), PHY211 Physics 1 Laboratory, PHY221 Fundamental Physics 1 (NSCI), PHY231 Fundamental Physics 1 Lab.
- <sup>2</sup> Select PHY222 and PHY232 or PHY202 and PHY212. PHY202 General Physics 2 (NSCI), PHY212 General Physics 2 Lab, PHY222 Fundamental Physics II (NSCI), PHY232 Fundamental Physics 2 Lab.
- <sup>3</sup> Content Area - Environmental Biology: BIO301 Field Biology Fall, BIO302 Field Biology Spring, BIO303 Field Biology Summer, BIO340 Ecology, BIO440 Freshwater Biology.
- <sup>4</sup> Content Area - Evolution and Diversity of Life: BIO305 Plant Morphology, BIO307 Comparative Vertebrate Anatomy, BIO335 Entomology, BIO350 General Microbiology, BIO412 Evolutionary Theory, BIO417 Animal Physiology, BIO418 Animal Behavior.
- <sup>5</sup> Content Area - Architecture of Life: BCM360 Protein Structure and Function, BIO308 Basic Molecular Biology, BIO309 Basic Cell Biology, BIO311 Developmental Plant Anatomy, BIO313 Developmental Biology, CHE461 Biochemistry I.
- <sup>6</sup> Choose one course from a Content Area not yet taken (3-4 credits): Environmental Biology, Evolution and Diversity of Life, Architecture of Life.