

# BS IN ORGANISMAL/ ENVIRONMENTAL BIOLOGY

## Minimum grade requirements:

- A minimum grade of C- is required to advance from BIO201 to BIO202 and from BIO202 to BIO320.
- A minimum grade of C- in BIO320 is required to advance to most upper-division biology courses (300 and above).
- A minimum grade of C- is required to advance from CHE201 to CHE202, from CHE202 to CHE318, and from CHE318 to CHE319.
- A minimum grade of C- in CHE319 is required to enroll in BCM461.
- A minimum grade of C- in MAT251 is required to enroll in MAT252 and in PHY201.

Code	Title	Credits
<b>Pre-Major Requirements (16 Credits)</b> <sup>1</sup>		
BIO201 & BIO211	and <sup>2</sup>	4
BIO202 & BIO212	and <sup>2</sup>	4
CHE201 & CHE211	and <sup>3</sup>	4
CHE202 & CHE212	and <sup>3</sup>	4
<b>Required Track Courses (11 Credits)</b>		
BIO320	<sup>4</sup>	4
BIO340		4
BIO412 or BIO418		3
<b>Track Elective (4-5 Credits)</b>		
Select one of the following:		4-5
BIO305		
BIO307		
BIO417		
BIO425		
<b>Major Electives (14 Credits)</b>		
Select 14 credits of Biology (or Biochemistry) courses at the 300 level 14 or above <sup>5</sup>		
<b>Lecture Series (6 Credits)</b>		
Participation in 6 hours of Lecture Series		6
<b>Cognate Requirements (27 Credits)</b> <sup>6</sup>		
Additional Chemistry Requirements:		
CHE318 & CHE306	and	4
CHE319 & CHE309	and	4
Math Requirements:		
MAT241		3
MAT251		4
MAT252		4
Physics Requirements:		
PHY201 & PHY211	and	4

PHY202 & PHY212	and	4
Total Credits		78-79

- <sup>1</sup> Also required: Minimum MPL of 4; minimum cumulative GPA of 2.5.
- <sup>2</sup> BIO201/BIO211 General Biology I/General Biology I Lab and BIO202/BIO212 General Biology II/General Biology II Lab must be taken in sequence. A minimum grade of C- is required in BIO201 and BIO202.
- <sup>3</sup> A minimum grade of C- is required to advance from CHE201 General Chemistry I to CHE202 General Chemistry II and from CHE202 General Chemistry II to CHE318 Organic Chemistry I.
- <sup>4</sup> A minimum grade of C- in BIO320 Genetics is required to advance to most upper-division biology courses (300 and above).
- <sup>5</sup> These must be Biology (or Biochemistry) courses at the 300-level or above, including at least three lab courses. A maximum of 4 credits from independent projects, including Research, Fieldwork or Independent Study, can be counted towards the major.
- <sup>6</sup> See relevant minimum-grade requirements at top of page.

**Additional considerations for admission to medical, dental and veterinary schools:** The requirements for these professional schools are constantly evolving and vary from institution to institution. Please contact the **Pre-Health Adviser**.

**Additional considerations for admission to graduate programs in biology: Research experience.** You should begin to explore research options during your sophomore year.

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>		
BIO201		3
BIO211		1
CHE201		3
CHE211		1
MAT251		4
Gen Ed: Composition (COMP)		3
		Credits
		15
<b>Spring</b>		
BIO202		3
BIO212		1
CHE202		3
CHE212		1
MAT252		4

Gen Ed: Composition (COMP)	3
Credits	15
<b>Year 2</b>	
<b>Fall</b>	
CHE318	3
CHE306	1
BIO320	3
PHY201	3
PHY211	1
Gen Ed: Foreign Languages (FLNG)	3
Credits	14
<b>Spring</b>	
CHE319	3
CHE309	1
Biology track elective <sup>1</sup>	4-5
PHY202	3
PHY212	1
Gen Ed: Western Civilization (WEST)	3
Credits	15-16
<b>Year 3</b>	
<b>Fall</b>	
BIO340	4
MAT241	3
Upper-Division Biology elective	3-4
Gen Ed: United States Studies (USST)	3
Gen Ed: The Arts (ART)	3
Credits	16-17
<b>Spring</b>	
Upper-division Biology elective	3-4
Upper-division Biology elective	4
Upper-division elective	3-4
Gen Ed: Humanities (HUM)	3
Gen Ed: World Civilizations and Cultures (WRLD)	3
Credits	16-18
<b>Year 4</b>	
<b>Fall</b>	
Upper-division Biology elective	3-4
Gen Ed: Social Sciences (SSCI)	3
Elective	3
Elective	3
Credits	12-13
<b>Spring</b>	
BIO412 or or BIO418	3
Gen Ed: Diversity (DIVR)	3
Gen Ed: Writing Intensive (WI)	3-4
Elective	4
Elective	3
Credits	16-17
Total Credits	119-125

<sup>1</sup> Biology track electives: BIO305 Plant Morphology, BIO307 Comparative Vertebrate Anatomy, BIO417 Animal Physiology, BIO425 Plant Ecophysiology.