

BS IN CELL/MOLECULAR 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
Pre-Major Requirements (16 Credits) ¹		
BIO201 & BIO211	and ²	4
BIO202 & BIO212	and ²	4
CHE201 & CHE211	and ³	4
CHE202 & CHE212	and ³	4
Required Track Courses (15 Credits)		
BIO320	⁴	4
BIO308		4
BIO309		4
BIO412		3
Track Elective (4 Credits)		
Select one of the following:		4
BIO311		
BIO313		
BIO350		
Major Electives (10 Credits)		
Select 10 credits of Biology (or Biochemistry) courses at the 300 level 10 or above ⁵		
Lecture Series (6 Credits)		
Participation in 6 hours of Lecture Series		6
Cognate Requirements (27 Credits) ⁶		
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

- ¹ Also required: Minimum MPL of 4; minimum cumulative GPA of 2.5.
- ² 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.
- ³ 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.
- ⁴ A minimum grade of C- in BIO320 Genetics is required to advance to most upper-division biology courses (300 and above).
- ⁵ 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.
- ⁶ 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
Year 1		
Fall		
BIO201		3
BIO211		1
CHE201		3
CHE211		1
MAT251		4
Gen Ed: Composition (COMP)		3
Credits		15
Spring		
BIO202		3
BIO212		1
CHE202		3
CHE212		1
MAT252		4

Gen Ed: Composition (COMP)	3
Credits	15
Year 2	
Fall	
BIO320	3
CHE318	3
CHE306	1
Gen Ed: Foreign Languages (FLNG)	3
PHY201	3
PHY211	1
Credits	14
Spring	
BIO309	4
CHE319	3
CHE309	1
Gen Ed: Foreign Languages (FLNG)	3
PHY202	3
PHY212	1
Credits	15
Year 3	
Fall	
BIO308	4
MAT241	3
Gen Ed: Western Civilization (WEST)	3
Gen Ed: The Arts (ART)	3
Biology track elective ¹	4
Credits	17
Spring	
Biology elective with lab	4
Gen Ed: World Civilizations and Cultures (WRLD)	3
Upper-division Biology elective	3-4
Upper-division elective	3
Gen Ed: Humanities (HUM)	3
Credits	16-17
Year 4	
Fall	
Upper-division Biology elective	3-4
Gen Ed: Diversity (DVR)	3
Gen Ed: Writing Intensive (WI)	3-4
Gen Ed: Social Sciences (SSCI)	3
Credits	12-14
Spring	
BIO412	3
Upper-division elective	3
Electives	6
Gen Ed: United States Studies (USST)	3
Credits	15
Total Credits	119-122

¹ Choose one of the track electives: BIO311 Developmental Plant Anatomy, BIO313 Developmental Biology, BIO350 General Microbiology.