

# BIOLOGY MAJOR, BA

Campus: NYC, Westchester

## Major Completion Summary

Requirement	Credits
University Core Requirements	44-55
Major Requirements	35
Open Electives	24-49
<b>Total Credits</b>	<b>128</b>

## University Core Requirements (44-55 Credits)

See complete University Core (<http://catalog.pace.edu/undergraduate/university-core-curriculum/>) requirements.

Includes as foundational courses the following major-required courses:

Code	Title	Credits
<b>Required Foundational Chemistry and Math Courses</b>		
CHE 111	General Chemistry I	4
Select one of the following:		3-4
MAT 141	Introductory Statistics for the Life Sciences	4

## Major Requirements (35 Credits)

Code	Title	Credits
<b>Biology Core Courses</b>		
BIO 101	General Biology I	4
BIO 102	General Biology II	4
BIO 210	Ecology	4
BIO 231	Genetics	4
BIO 327	Cellular Biochemistry	4
BIO 335	Molecular and Cellular Biology	4
BIO 335A	Molecular and Cellular Biology (NYC students only)	1
BIO 490	Introduction to Research in the Biological Sciences	3
BIO 493	Major Field Test in Biology	0
Select one of the following:		3
BIO 395	Independent Study in Biology	
BIO 480	Research in Biology	
BIO 491	Internship in Biology	
<b>Major Electives</b>		
Select nine credits of the following:		9
BIO 205	Concepts of Environmental Science	
BIO 215	Urban Ecology	
BIO 221	Botany	
BIO 233	Fundamentals of Histology and Histopathology	
BIO 236	Comparative Vertebrate Anatomy	
BIO 251	Principles of Human Anatomy	
BIO 264	Microbiology	
BIO 296C	The Neurobiology of Alzheimer's Disease	
BIO 306	Advanced Microbiology	
BIO 305	Evolutionary Biology	
BIO 307	Microbial Ecology	
BIO 322	Animal Behavior	
BIO 334	General Physiology	

BIO 345	Introduction to Toxicology	
BIO 359	Immunology	
BIO 375	Advanced Cell Biology	
BIO 399C	Topic: Cancer Cell Biology	
BIO 399I	Fundamentals in Reproductive Biology	

**Major Required Chemistry Courses**<sup>2</sup>

CHE 112	General Chemistry II	4
CHE 223	Organic Chemistry I	5
CHE 224	Organic Chemistry II	5

<b>Total Credits</b>		<b>54</b>
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<sup>2</sup> Major-required Chemistry courses may be taken for University Core or Open Elective credit in consultation with academic advisor.

**Open Electives (24-49 Credits)**

Code	Title	Credits
<b>Open Electives</b>		
Select 24-49 credits	<sup>1</sup>	24-49
<b>Total Credits</b>		<b>24-49</b>

<sup>1</sup> Includes major-required Chemistry courses not taken for core credit.