

# BIOLOGY/BIOCHEMISTRY AND MOLECULAR BIOLOGY, BS/MS

Campus: NYC

## Major Completion Summary

Requirement	Credits
University Core Credits	44-55
Major Requirements	54-55
Open Electives	40-52
<b>Total Credits</b>	<b>150</b>

## University Core Requirements (44-55 Credits)

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

Note: Various major-required math and science courses listed below may fulfill foundation, area of knowledge, and/or core requirements. Please consult with an academic advisor.

## Major Requirements (54-55 Credits)

### Required Courses

Code	Title	Credits
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	1
BIO 480	Research in Biology	3
BIO 490	Introduction to Research in the Biological Sciences	3
BIO 493	Major Field Test in Biology	0

### Biology Elective

Select one additional BIO course at 200 level or above 3

### BMB Core Courses

Select 12 credits from list 12

BMB 601	Graduate Colloquium	1
BMB 605	Scientific Communications	2
BMB 609	Special Topics in Biochemistry and Molecular Biology	2
BMB 610	Seminar	1
BMB 620	Quantitative Methods: Data Analysis and Presentation	3
BMB 626	Cellular Biochemistry and Advanced Molecular Biology	4
BMB 629	Molecular Biochemistry	4
BMB 630	Bioinformatics, Genomics and Proteomics	4
BMB 710	Research I	4
BMB 711	Research II	4
BMB 712	Thesis Preparation	1

### Required Math and Science Courses

CHE 111	General Chemistry I	4
CHE 112	General Chemistry II	4
CHE 223	Organic Chemistry I	5
CHE 224	Organic Chemistry II	5
MAT 131	Calculus I	4
MAT 141	Introductory Statistics for the Life Sciences	4
PHY 101	College Physics I	4
or PHY 111	General Physics I	

PHY 102 or PHY 112	College Physics II General Physics II	4
<b>Total Credits</b>		<b>110</b>