

CHEMICAL BIOLOGY, BS

Campus: NYC, Westchester

Major Completion Summary

Requirement	Credits
University Core Requirements	44-55
Major Requirements	64-65
Open Electives	1-7
Total Credits	120 -124

University Core Requirements (44-55 Credits)

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

Includes several of the major required Math, Biology and Physics courses listed in the Major Requirements.

Code	Title	Credits
Major Required Math and Science Courses		
The following University Core courses satisfy several Math and Science foundation requirements of the Chemical Biology Major, BS:		
BIO 101	General Biology I ^{1,2,3}	4
BIO 102	General Biology II ^{1,2,3}	4
MAT 131	Calculus I	4
MAT 132	Calculus II	4
PHY 111	General Physics I ^{1,2,3}	4
PHY 112	General Physics II ^{1,2,3}	4
BIO 264	Microbiology	4
MAT 141	Introductory Statistics for the Life Sciences	4

Major Requirements (62-63 Credits)

Code	Title	Credits
Required Major Courses		
CHE 111	General Chemistry I ^{1,3}	4
CHE 112	General Chemistry II ^{1,3}	4
CHE 223	Organic Chemistry I	4
CHE 224	Organic Chemistry II	4
CHB 232	Bioanalytical Chemistry and Instrumentation (or PLS 232)	4
CHE 300	Introduction to Physical Chemistry	4
CHE 326	Biochemistry	4
or BIO 327	Cellular Biochemistry	
BIO 251	Principles of Human Anatomy	4
CHB 200	Fundamentals of Chemical Biology	3
CHB 301	Bioinformatics	3
BIO 335	Molecular and Cellular Biology	4
BIO 334	General Physiology	4
CHB 392	Chemical Biology Seminar I	1
CHB 492	Chemical Biology Seminar II	1
CHB 480	Research in Chemical Biology	3
Major Electives		
PLS 200	Fundamentals of Pharmaceutical Sciences	3
BIO 359	Immunology	4

BIO 325	Neurobiology	3
CHE 370	Advanced Biophysical Chemistry: Membrane Transport and Ionic Channels	3
BIO 346	Introduction to Basic Pharmacology	3
CHE 221	Analytical Methods and Techniques	3
CHE 331	Instrumental Analysis	4
BIO 264	Microbiology	4

¹ Take credit-bearing lecture and its 0-credit lab in the same semester.

² Reduced credits (effective from Spring, 2025) shown.

Open Electives (1-11 Credits)

Code	Title	Credits
UNV 101	First-Year Seminar: Introduction to University Community	1
Total Credits		1-11

¹ Select 1-11 credits, including UNV 101 First-Year Seminar: Introduction to University Community and Major-required Biology, Math, and Physics courses not taken for University Core credit.

² Take the lecture and its corresponding lab in the same semester.

³ In-depth sequence.