

CHEMISTRY MAJOR, BS

Campus: NYC, Westchester

Major Completion Summary

Requirement	Credits
University Core Requirements	44-55
Major Requirements	65
Open Electives	1-9
Total Credits	120 (see footnote 4)

University Core Requirements (44-55 Credits)

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

Includes many of the major's required Math and Science courses if taken to satisfy Core Foundation and Area requirements.

Code	Title	Credits
University Core		
Complete University Core Requirements ¹		44-55
MAT 131	Calculus I (Foundation)	
BIO 101	General Biology I (Foundation) ²	
PHY 112	General Physics II (AOK V) ²	
ENG 110	Composition (can test out)	
ENG 120	Critical Writing	
COM 200	Public Speaking	
CIS 101	Introduction to Computing (or another course in this category)	
Two 2nd Language courses (can test out)		
Other AOK courses (AOK II-IV 2 each & CE & one additional AOK II - V)		
Total Credits		44-55

Major Requirements (65 Credits)

Code	Title	Credits
Required Chemistry Courses		
CHE 111	General Chemistry I ¹	4
CHE 112	General Chemistry II ¹	4
CHE 221	Analytical Methods and Techniques ^{1,2}	3
CHE 223	Organic Chemistry I ^{1,2}	4
CHE 224	Organic Chemistry II ^{1,2}	4
CHE 301	Physical Chemistry I: Quantum Mechanics and Spectroscopy ¹	4
CHE 302	Physical Chemistry II: Thermodynamics, Molecular Interactions and Kinetics ¹	4
CHE 310	Green Chemistry ²	3
CHE 326	Biochemistry ¹	4
CHE 330	Advanced Inorganic Chemistry ¹	4
CHE 331	Instrumental Analysis ¹	4
CHE 392	Chemistry Seminar I	1
CHE 480	Research in Chemistry	3
Campus Specific Chemistry Course		
Complete campus specific course.		7
<i>NYC Students</i>		
CHE 200	Mathematical Methods for Physical Chemistry	
CHE 333	Advanced Organic Chemistry	
<i>PLV Students</i>		

MAT 253	Differential Equations	
CHE 370	Advanced Biophysical Chemistry: Membrane Transport and Ionic Channels	

Required Math and Science Courses

BIO 102	General Biology II	4
MAT 132	Calculus II	4
PHY 111	General Physics I	4

Total Credits		65
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Open Electives (1-9 Credits)

Code	Title	Credits
Open Electives		
Select 1-9 credits ¹		1-9
UNV 101	First-Year Seminar: Introduction to University Community	
Total Credits		1-9

¹ Includes various Math and Science courses not taken for University Core Credit. Includes many of the major's required Math and Science courses if taken to satisfy Core Foundation and Area requirements.

² Take credit-bearing lecture and 0-credit lab in the same semester.

³ Reduced credits (effective from Spring 2025) shown.

⁴ Students who do not test out of certain Core requirements will be required to take more than 120 credits to earn the BS degree. Please consult with your academic advisor and the department for more information.