

PHARMACEUTICAL SCIENCES, BS

Campus: Westchester

Requirement	Credits
University Core Requirements	44-55
Major Requirements	64-65
Open Electives	1-5
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
Required Math and Science Courses		
The following University Core courses satisfy several Math and Science foundation requirements of the Pharmaceutical Sciences Major, BS:		
BIO 101	General Biology I	4
BIO 102	General Biology II	4
BIO 251	Principles of Human Anatomy	4
MAT 131	Calculus I	4
MAT 132	Calculus II	4
MAT 141	Introductory Statistics for the Life Sciences	4
PHY 111	General Physics I	4
PHY 112	General Physics II	4

Major Requirements (64-65 credits)

Code	Title	Credits
Required Major Courses		
CHE 111	General Chemistry I	4
CHE 112	General Chemistry II	4
CHE 223	Organic Chemistry I	4
CHE 224	Organic Chemistry II	4
CHE 300	Introduction to Physical Chemistry	4
CHB 232	Bioanalytical Chemistry and Instrumentation (or PLS 232)	0-4
CHE 326	Biochemistry	4
or BIO 327	Cellular Biochemistry	
PLS 200	Fundamentals of Pharmaceutical Sciences	3
PLS 300	Pharmaceutics	3
PLS 310	Pharmaceutical Manufacturing and Regulations	3
BIO 346	Introduction to Basic Pharmacology	3
BIO 334	General Physiology	4
BIO 335	Molecular and Cellular Biology	4
PLS 480	Research in Pharmaceutical Sciences	3
PLS 392	Pharmaceutical Sciences Seminar I	1
PLS 492	Pharmaceutical Sciences Seminar II	1

Code	Title	Credits
Major Electives		
BIO 264	Microbiology	4
BIO 359	Immunology	4
BIO 325	Neurobiology	3

BIO 231	Genetics	4
CHE 331	Instrumental Analysis	4
CHE 370	Advanced Biophysical Chemistry: Membrane Transport and Ionic Channels	3
BIO 232	Developmental Biology	4
CHE 221	Analytical Methods and Techniques	3
Total Credits		3-4

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

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

Open Electives

Code	Title	Credits
UNV 101	First-Year Seminar: Introduction to University Community	1
Total Credits		1-5

¹ Select 1-5 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 credit-bearing lecture and 0-credit lab in the same semester.

³ In-depth sequence.