

# PHARMACEUTICAL SCIENCES, BS

Campus: Westchester

*In addition to the courses listed below, students are required to complete two courses with the Anti-Racism Education attribute attached. These courses may be taken during any semester of their education. See advisor for more information.*

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
ENG 110	Composition	3
CHE 111	General Chemistry I	4
BIO 101	General Biology I	4
MAT 131	Calculus I	4
UNV 101	First-Year Seminar: Introduction to University Community	1
<b>Credits</b>		<b>16</b>
<b>Spring</b>		
ENG 120	Critical Writing	4
CHE 112	General Chemistry II	4
BIO 102	General Biology II	4
MAT 132	Calculus II	4
<b>Credits</b>		<b>16</b>
<b>Second Year</b>		
<b>Fall</b>		
CHE 223	Organic Chemistry I (Required Lab component carries zero credits)	4
BIO 251	Principles of Human Anatomy	4
BIO 231	Genetics	4
Second Language I		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
BIO 335	Molecular and Cellular Biology	4
CHE 224	Organic Chemistry II	4
MAT 141	Introductory Statistics for the Life Sciences	4
Second Language II		3
<b>Credits</b>		<b>15</b>
<b>Third Year</b>		
<b>Fall</b>		
PHY 111	General Physics I	4
CHE 300	Introduction to Physical Chemistry	4
CHE 326 or BIO 327	Biochemistry or Cellular Biochemistry	4
ENG 201	Writing in the Disciplines	3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
PHY 112	General Physics II	4
PLS 200	Fundamentals of Pharmaceutical Sciences	3
BIO 334	General Physiology	4
COM 200	Public Speaking	3
Take any one remaining Area of Knowledge course		3
<b>Credits</b>		<b>17</b>

**Fourth Year****Fall**

CHB 232	Bioanalytical Chemistry and Instrumentation (or PLS 232)	0-4
PLS 300	Pharmaceutics	3
CIS 101	Introduction to Computing	3
PLS 392	Pharmaceutical Sciences Seminar I	1
Take any one remaining Area of Knowledge course		3
<b>Credits</b>		<b>10-14</b>

**Spring**

PLS 310	Pharmaceutical Manufacturing and Regulations	3
BIO 346	Introduction to Basic Pharmacology	3
PLS 480	Research in Pharmaceutical Sciences	3
PLS 492	Pharmaceutical Sciences Seminar II	1
Take any one remaining Area of Knowledge course		3
Take any one remaining Area of Knowledge course		3
<b>Credits</b>		<b>16</b>
<b>Total Credits</b>		<b>120-124</b>

<sup>1</sup> Reduced credits (effective from Spring 2025) shown

<sup>2</sup> Students must take one Civic Engagement (CE) course. Many AoK II-V courses also counts as CE.

<sup>3</sup> Take the lecture and its corresponding lab in the same semester.