

Pharmaceutical Studies BS

Overview

The **Bachelor of Science in Pharmaceutical Studies** is designed for students who are planning to obtain both a Bachelor of Science in Pharmaceutical Studies and a Doctor of Pharmacy (PharmD) degree in seven years. It provides a solid science foundation and broad liberal arts education while preparing students for careers in the areas of research/laboratory work, quality control, and administration in pharmaceuticals, biotechnology, and healthcare industries.

In order to complete this major, students must successfully complete all major requirements and their first year of coursework at the Temple University School of Pharmacy.

The BS in Pharmaceutical Studies is a 4-year, non-licensure, undergraduate bachelor's degree program, and does not qualify the student for state board examination to become a registered pharmacist.

Students must meet the admissions requirements for early admission to the Temple University School of Pharmacy. All students, including Pharmaceutical Studies majors, must formally apply to the PharmD through PharmCAS.

Campus Location: Main

Program Code: ST-PHST-BS

Contact Information

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These requirements are for students who matriculated in academic year 2025-2026. Students who matriculated prior to fall 2025 should refer to the Archives to view the requirements for their Bulletin year.

Bachelor of Science Requirements

Summary of Requirements for the Degree

1. University Requirements (123 total s.h.)

- Students must complete all University requirements including those listed below.
- All undergraduate students must complete at least two writing-intensive courses for a total of at least six credits at Temple as part of their major. The specific writing-intensive course options for this major are:

Code	Title	Credit Hours
SCTC 2396	Writing for Science and Technology (WI)	3
Add one additional writing-intensive course		3

- Students must complete the General Education (GenEd) requirements.
 - See the General Education section of the *Undergraduate Bulletin* for the GenEd curriculum.
 - Students who complete CST majors receive a waiver for 2 Science & Technology (GS) and 1 Quantitative Literacy (GQ) GenEd courses.
- Students must satisfy general Temple University residency requirements.

2. College Requirements

- A minimum of 90 total credits within the College of Science & Technology (CST), the College of Liberal Arts (CLA), and/or the College of Engineering (ENG).
 - A minimum of 45 of these credits must be upper-level (courses numbered 2000 and above). Up to 33 credits taken during the first year at the School of Pharmacy can be used toward this requirement.
- Complete a one-credit first-year or transfer seminar.
 - SCTC 1001 CST First-Year Seminar for every entering first-year CST student.
 - SCTC 2001 CST Transfer Seminar for every entering transfer CST student.

3. Major Requirements for Bachelor of Science (47-50 s.h.)

At least 9 courses required for the major must be completed at Temple. Pharmacy courses will count towards this requirement.

Code	Title	Credit Hours
Chemistry		
Select one of the following:		4
CHEM 1031 & CHEM 1033	General Chemistry I and General Chemistry Laboratory I	
CHEM 1951 & CHEM 1953	Honors General Chemical Science I and Honors Chemical Science Laboratory I (F)	
Select one of the following:		4
CHEM 1032 & CHEM 1034	General Chemistry II and General Chemistry Laboratory II	
CHEM 1952 & CHEM 1954	Honors General Chemical Science II and Honors Chemical Science Laboratory II (S)	
Select one of the following:		4
CHEM 2201 & CHEM 2203	Organic Chemistry I and Organic Chemistry Laboratory I	
CHEM 2211 & CHEM 2213	Organic Chemistry for Majors I and Organic Majors Laboratory I (F)	
CHEM 2921 & CHEM 2923	Organic Chemistry for Honors I and Organic Honors Laboratory I (F)	
Select one of the following:		4
CHEM 2202 & CHEM 2204	Organic Chemistry II and Organic Chemistry Laboratory II	
CHEM 2212 & CHEM 2214	Organic Chemistry for Majors II and Organic Majors Laboratory II (S)	
CHEM 2922 & CHEM 2924	Organic Chemistry for Honors II and Organic Honors Laboratory II (S)	
Biology		
BIOL 1111 or BIOL 1911	Introduction to Organismal Biology Honors Introduction to Organismal Biology	4
Select one of the following:		4
BIOL 1112 or BIOL 1912	Introduction to Biomolecules, Cells and Genomes Honors Introduction to Biomolecules, Cells and Genomes	
BIOL 2112 or BIOL 2912	Introduction to Cellular and Molecular Biology Honors Introduction to Cellular and Molecular Biology	
Mathematics		
MATH 1041 or MATH 1941	Calculus I Honors Calculus I	4
Physics		
Select one of the following:		4
PHYS 1021	Introduction to General Physics I	
PHYS 1061 or PHYS 1961	Elementary Classical Physics I Honors Elementary Classical Physics I	
PHYS 2021 or PHYS 2921	General Physics I (F) Honors General Physics I	

Anatomy & PhysiologySelect one of the following: ¹ 3-4

KINS 1221 Principles of Anatomy and Physiology I

KINS 1223 Human Anatomy and Physiology I

BIOL 2233 Mammalian Anatomy (F)

Select one of the following: ¹ 3-4

KINS 1222 Principles of Anatomy and Physiology II

KINS 1224 Human Anatomy and Physiology II

BIOL 3334 Mammalian Physiology (S)

Data Science or Economics

Select one of the following: 3

ECON 1101 Macroeconomic Principles

ECON 1102 Microeconomic Principles

ECON 1901 Honors Macroeconomic Principles

ECON 1902 Honors Microeconomic Principles

SCTC 1013 Elements of Data Science for the Physical and Life Sciences

Science and Technology

SCTC 2396 Writing for Science and Technology (WI) 3

Writing-Intensive

Writing-Intensive Course (WI) 3-4

Total Credit Hours 47-50

Code	Title	Credit Hours
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(F) - Fall only course

(S) - Spring only course

¹ The anatomy and physiology course requirement must be selected from the same subject. Students must take one of the following sequences: BIOL 2233 & BIOL 3334, KINS 1221 & KINS 1222, or KINS 1223 & KINS 1224. Students may not mix and match courses in this sequence.

4. School of Pharmacy requirements (33 s.h.)

Suggested Academic Plan**Bachelor of Science in Pharmaceutical Studies****Suggested Plan for New Students Starting in the 2025-2026 Academic Year**

Year 1		Credit Hours
Fall		Credit Hours
Select one of the following:		4
CHEM 1031 & CHEM 1033	General Chemistry I and General Chemistry Laboratory I	
CHEM 1951 & CHEM 1953	Honors General Chemical Science I and Honors Chemical Science Laboratory I (F)	
MATH 1041 or MATH 1941	Calculus I or Honors Calculus I	4
SCTC 1001	CST First-Year Seminar	1
Select one of the following:		3
ECON 1101 or ECON 1901	Macroeconomic Principles or Honors Macroeconomic Principles	
ECON 1102 or ECON 1902	Microeconomic Principles or Honors Microeconomic Principles	
SCTC 1013	Elements of Data Science for the Physical and Life Sciences	
GenEd Breadth Course		3
Credit Hours		15

Spring

BIOL 1111 or BIOL 1911	Introduction to Organismal Biology or Honors Introduction to Organismal Biology	4
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Select one of the following: 4

CHEM 1032 & CHEM 1034	General Chemistry II and General Chemistry Laboratory II	
CHEM 1952 & CHEM 1954	Honors General Chemical Science II and Honors Chemical Science Laboratory II (S)	
ENG 0802 or ENG 0812 or ENG 0902	Analytical Reading and Writing [GW] or Analytical Reading and Writing: ESL [GW] or Honors Analytical Reading and Writing [GW]	4

Elective 3

Credit Hours 15

Year 2**Fall**

Select one of the following: 4

BIOL 1112 or BIOL 1912	Introduction to Biomolecules, Cells and Genomes or Honors Introduction to Biomolecules, Cells and Genomes	
BIOL 2112 or BIOL 2912	Introduction to Cellular and Molecular Biology or Honors Introduction to Cellular and Molecular Biology	

Select one of the following: 4

CHEM 2201 & CHEM 2203	Organic Chemistry I and Organic Chemistry Laboratory I	
CHEM 2211 & CHEM 2213	Organic Chemistry for Majors I and Organic Majors Laboratory I (F)	
CHEM 2921 & CHEM 2923	Organic Chemistry for Honors I and Organic Honors Laboratory I (F)	
IH 0851 or IH 0951	Intellectual Heritage I: The Good Life [GY] or Honors Intellectual Heritage I: The Good Life [GY]	3

GenEd Breadth Course 3

Credit Hours 14

Spring

Select one of the following: 4

CHEM 2202 & CHEM 2204	Organic Chemistry II and Organic Chemistry Laboratory II	
CHEM 2212 & CHEM 2214	Organic Chemistry for Majors II and Organic Majors Laboratory II (S)	
CHEM 2922 & CHEM 2924	Organic Chemistry for Honors II and Organic Honors Laboratory II (S)	

Select one of the following: 4

PHYS 1021	Introduction to General Physics I	
PHYS 1061 or PHYS 1961	Elementary Classical Physics I or Honors Elementary Classical Physics I	
PHYS 2021 or PHYS 2921	General Physics I (F) or Honors General Physics I	
IH 0852 or IH 0952	Intellectual Heritage II: The Common Good [GZ] or Honors Intellectual Heritage II: The Common Good [GZ]	3

Elective 3

Elective 2

Credit Hours 16

Year 3**Fall**

Select one of the following: ¹ 3-4

BIOL 2233	Mammalian Anatomy (F)	
KINS 1221	Principles of Anatomy and Physiology I (F)	

KINS 1223	Human Anatomy and Physiology I	
GenEd Breadth Course		3-4
Writing-Intensive Course (WI)		3-4
Elective		3
Elective		3-0
Credit Hours		15
Spring		
Select one of the following: ¹		3-4
BIOL 3334	Mammalian Physiology (S)	
KINS 1222	Principles of Anatomy and Physiology II (S)	
KINS 1224	Human Anatomy and Physiology II	
SCTC 2396	Writing for Science and Technology [WI]	3
GenEd Breadth Course		3
GenEd Breadth Course		3
Elective		3-2
Credit Hours		15
Year 4		
Fall		
School of Pharmacy courses		16
Credit Hours		16
Spring		
School of Pharmacy courses		17
Credit Hours		17
Total Credit Hours		123

¹ The anatomy and physiology course selections must be taken from the same subject. Students must take one of the following sequences: BIOL 2233 & BIOL 3334, KINS 1221 & KINS 1222, or KINS 1223 & KINS 1224. Students may not mix and match courses in this sequence.

Code	Title	Credit Hours
(F) - Fall only course		
(S) - Spring only course		

NOTES:

- 62-65 credits - required undergraduate prerequisites for admission to the Pharmacy Program.
- 28-25 credits - required to complete undergraduate degree requirements, including GenEd and Writing Intensive requirements not satisfied with the 62-65 credits required for admission to the Pharmacy Program.
- 33 credits - School of Pharmacy credits.