Pharmaceutical Sciences, B.S.

Learn more about the Bachelor of Science in Pharmaceutical Sciences.

The Bachelor of Science in Pharmaceutical Sciences is designed for students who are planning to obtain both a Bachelor of Science in Pharmaceutical Sciences and a Doctor of Pharmacy 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 pharmaceutics, biotechnology, and healthcare industries.

This major is open to incoming freshmen who are direct admits to the Temple University School of Pharmacy. Current students who have been admitted to the Pharmacy School and can complete this major within their first year of Temple University School of Pharmacy are welcome to declare this major.

The B.S. in Pharmaceutical Sciences 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.

Contact Information:

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215-204-2513
healthadvising@temple.edu

Bachelor of Science

Summary of Requirements for the Degree

1. University Requirements (123 total s.h.)
   • MATH 0701 (4 s.h.) and/or ENG 0701 (4 s.h.), if required by placement testing.
   • All Temple students must take a minimum of two writing-intensive courses at Temple as part of their major: SCTC 2396 and one other writing-intensive course.
   • 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 typically 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
   • 45 Upper Level (2000+) credits within the College of Science & Technology (CST) or the College of Liberal Arts (CLA). School of Pharmacy courses may be used for up to 33 of these credits.
   • 90 credits within the College of Science & Technology (CST) or the College of Liberal Arts (CLA). School of Pharmacy courses may be used for up to 33 of these credits.
- First Year Seminar Requirement: All students in the College of Science & Technology (CST) are required to take a 1 credit first year seminar course, SCTC 1001 CST First Year Seminar. Other courses that fulfill this requirement may be found on the CST College Requirements page. Only one course in this category may count towards graduation.

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.

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td></td>
<td><strong>Chemistry</strong></td>
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<td>Select one of the following:</td>
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<tr>
<td></td>
<td>CHEM 1031 &amp; CHEM 1033</td>
<td>General Chemistry I and General Chemistry Laboratory I</td>
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<td></td>
<td>CHEM 1951 &amp; CHEM 1953</td>
<td>Honors General Chemical Science I and Honors Chemical Science Laboratory I (F)</td>
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<td>Select one of the following:</td>
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<td>CHEM 1032 &amp; CHEM 1034</td>
<td>General Chemistry II and General Chemistry Laboratory II</td>
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<td>CHEM 1952 &amp; CHEM 1954</td>
<td>Honors General Chemical Science II and Honors Chemical Science Laboratory II (S)</td>
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<td>Select one of the following:</td>
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<td>CHEM 2201 &amp; CHEM 2203</td>
<td>Organic Chemistry I and Organic Chemistry Laboratory I</td>
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<td>CHEM 2211 &amp; CHEM 2213</td>
<td>Organic Chemistry for Majors I and Organic Majors Laboratory I (F)</td>
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<td>CHEM 2921 &amp; CHEM 2923</td>
<td>Organic Chemistry for Honors I and Organic Honors Laboratory I (F)</td>
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<td>CHEM 2202 &amp; CHEM 2204</td>
<td>Organic Chemistry II and Organic Chemistry Laboratory II</td>
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<td>CHEM 2212 &amp; CHEM 2214</td>
<td>Organic Chemistry for Majors II and Organic Majors Laboratory II (S)</td>
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<td>CHEM 2922 &amp; CHEM 2924</td>
<td>Organic Chemistry for Honors II and Organic Honors Laboratory II (S)</td>
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<td><strong>Biology</strong></td>
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<td>BIOL 1111 &amp; BIOL 1911</td>
<td>Introduction to Organismal Biology</td>
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<td></td>
<td>BIOL 2112 &amp; BIOL 2912</td>
<td>Introduction to Cellular and Molecular Biology</td>
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<td><strong>Mathematics</strong></td>
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<td>MATH 1041 &amp; MATH 1941</td>
<td>Calculus I and Honors Calculus I</td>
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<td><strong>Physics</strong></td>
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<td>PHYS 1061 &amp; PHYS 2021</td>
<td>Elementary Classical Physics I and General Physics I</td>
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<td>PHYS 2921</td>
<td>Honors General Physics I (F)</td>
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<td><strong>Anatomy &amp; Physiology</strong></td>
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<td>KINS 1221, BIOL 2233</td>
<td>Principles of Anatomy and Physiology I and Mammalian Anatomy (F)</td>
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<td>KINS 1222, BIOL 3334</td>
<td>Principles of Anatomy and Physiology II and Mammalian Physiology (S)</td>
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Economics
Select one of the following:  
- ECON 1101  Macroeconomic Principles  
- ECON 1102  Microeconomic Principles  
- ECON 1901  Honors Macroeconomic Principles  
- ECON 1902  Honors Microeconomic Principles

Science and Technology
- SCTC 2396  Writing for Science and Technology (WI)  

Writing-Intensive
- Writing-Intensive Course (WI)  

Total Credit Hours 47-50

The anatomy and physiology courses must either both be KINS courses or BIOL courses. Students may not mix and match these courses.

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

**Suggested Academic Plan**

**Bachelor of Science in Pharmaceutical Sciences**

**Requirements for New Students starting in the 2020-2021 Academic Year**

**Year 1**

**Fall**
Select one of the following:  
- CHEM 1031 & CHEM 1033  General Chemistry I  
- CHEM 1951 & CHEM 1953  Honors General Chemical Science I (F)  
- MATH 1041 or 1941  Calculus I  
- SCTC 1001  CST First Year Seminar  
General Education/Elective Credits

Term Credit Hours 15

**Spring**
- BIOL 1111 or 1911  Introduction to Organismal Biology  
Select one of the following:  
- CHEM 1032 & CHEM 1034  General Chemistry II  
- CHEM 1952 & CHEM 1954  Honors General Chemical Science II (S)  
General Education/Elective Credits

Term Credit Hours 15

**Year 2**

**Fall**
- BIOL 2112 or 2912  Introduction to Cellular and Molecular Biology  
Select one of the following:  
- CHEM 2201 & CHEM 2203  Organic Chemistry I  
- CHEM 2211 & CHEM 2213  Organic Chemistry for Majors I (F)  
- CHEM 2921 & CHEM 2923  Organic Chemistry for Honors I (F)
### 4  Pharmaceutical Sciences, B.S.

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#### Spring

Select one of the following:

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

Select one of the following:

- PHYS 1061: Elementary Classical Physics I
- PHYS 2021: General Physics I
- PHYS 2921: Honors General Physics I (F)

General Education/Elective Credits: 8

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<th>Term</th>
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#### Year 3

##### Fall

Select one of the following:

- BIOL 2233: Mammalian Anatomy (F)
- KINS 1221: Principles of Anatomy and Physiology I (F)
- KINS 1223: Human Anatomy and Physiology I

Select one of the following:

- ECON 1101: Macroeconomic Principles
- ECON 1102: Microeconomic Principles
- ECON 1901: Honors Macroeconomic Principles
- ECON 1902: Honors Microeconomic Principles

Writing-Intensive Course [WI]: 3-4

General Education/Elective Credits: 6-4

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<th>Term</th>
<th>Credit Hours</th>
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##### Spring

Select one of the following:

- 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

General Education/Elective Credits: 9-8

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#### Year 4

##### Fall

School of Pharmacy courses: 16

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<th>Term</th>
<th>Credit Hours</th>
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##### Spring

School of Pharmacy courses: 17

<table>
<thead>
<tr>
<th>Term</th>
<th>Credit Hours</th>
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Total Credit Hours: 123

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1. The anatomy and physiology courses must either both be KINS courses or BIOL courses. Students may not mix and match these courses.

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<tr>
<td></td>
<td>(F) - Fall only course</td>
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<td></td>
<td>(S) - Spring only course</td>
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(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.