

# BIOLOGY, B.S. TO PHARMACY, PHARM.D. ACCELERATED PROGRAM

The B.S. in Biology to Pharm.D. accelerated program at Saint Louis University allows students working toward a Bachelor of Science in Biology (<https://catalog.slu.edu/colleges-schools/arts-sciences/biology/biology-bs/>) to apply for admission into the first professional (P1) year of the Pharm.D. after three years of undergraduate study in the biology program. The Pharm.D. is offered through the University of Health Sciences and Pharmacy in St. Louis. Courses taken as part of the P1 year are eligible for reverse transfer to Saint Louis University and can fulfill requirements for the Bachelor of Science in Biology.

University of Health Sciences and Pharmacy in St. Louis (<https://www.uhsp.edu/>) provides a challenging learning environment where pharmacy students can explore a variety of practice settings, develop medication expertise and become leaders in the profession and their communities. The curriculum focuses on preparing students to provide interprofessional, evidence-based, patient-centered care in any practice setting, achieving positive drug therapy outcomes for patients.

For additional information, see the catalog entries for the following programs:

Biology, B.S. (<https://catalog.slu.edu/colleges-schools/arts-sciences/biology/biology-bs/>)

University of Health Sciences and Pharmacy in St. Louis (<https://www.uhsp.edu/>)

## Requirements

Students should declare their interest in the accelerated B.S. to Pharm.D. program to their program as soon as possible during their SLU bachelor's to receive the proper advising, after completing 15 credits at SLU but prior to achieving 45 total credits.

Students must complete the UHSP application by December 1st of the year prior to their anticipated start of the Pharm.D. UHSP will notify students by February 1st of the admission decision.

Students are recommended to have a minimum of a 2.70 cumulative grade point average (GPA) to apply. Transfer students will be considered on a case-by-case basis and must meet eligibility requirements.

The following are considerations in the admission decision:

- Students should have no grades below a C- in prerequisite courses to the Pharm.D. and maintain a cumulative grade point average of 2.7 or higher and a core math and science grade point average of 2.7 or higher;
- Students must successfully complete all designated prerequisite courses at SLU, listed below, or at a regionally accredited college or university, in order to be accepted to the Pharm.D. program; and
- Students must successfully complete an interview and writing assessment.

- As admission requirements can change over time, SLU students should consult UHSP's website ([www.UHSP.edu](http://www.UHSP.edu)) for the admission requirements that are in place at the time of application and admission.

## Pharm.D. Prerequisite Courses

Code	Title	Credits
CHEM 1110 & CHEM 1115	General Chemistry 1 and General Chemistry 1 Laboratory *	4
CHEM 1120 & CHEM 1125	General Chemistry 2 and General Chemistry 2 Laboratory *	4
CHEM 2410 & CHEM 2415	Organic Chemistry 1 and Organic Chemistry 1 Laboratory *	4
CHEM 2420 & CHEM 2425	Organic Chemistry 2 and Organic Chemistry 2 Laboratory *	4
BIOL 3020	Biochemistry and Molecular Biology *	3
BIOL 1240 & BIOL 1245	General Biology: Information Flow and Evolution and Principles of Biology I Laboratory *	4
BIOL 1260 & BIOL 1265	General Biology: Transformations of Energy and Matter and Principles of Biology II Laboratory *	4
BIOL 3420	Comparative Anatomy of the Vertebrates *	5
BIOL 4540	Human Systemic Physiology *	3
BIOL 3470	General Physiology Laboratory *	1
BIOL 4640 & BIOL 4650	General Microbiology and General Microbiology Laboratory *	5
MATH 1510	Calculus I *	4
MATH 1300	Elementary Statistics with Computers *	3
PHYS 1310 & PHYS 1320	Physics I and Physics I Laboratory *	4
ENGL 1900	Advanced Strategies of Rhetoric and Research	3
ENGL 3XXX/4XXX		3
CMM 1200	Public Speaking	3
PSY 1010 or SOC 1100	General Psychology Introduction to Sociology	3
ECON 1900	Principles of Economics	3
THEO 1000 or THEO 1600 or PHIL 1700 or HCE 1600 or HCE 1700 or HIST 1600	Theological Foundations (or other approved General Liberal Arts/Humanities course) God-Talk The Examined Life: Ultimate Questions Embodiment, Life, and Death in Context Death, Disability, Disease, and the Meaning of Life History of the United States of America to 1865	3

**Total Credits**

**70**

## UHSP courses to reverse transfer to SLU

A total of 16 credits from Professional Year 1 Pharm.D. coursework is eligible for reverse transfer to SLU towards the bachelor's:

- BIOL 4100 Principles of Immunology (2 credits) will satisfy an upper-division biology elective.
- BIOL 4101 Medical Physiology (3 credits) will satisfy an upper-division biology elective.

- BIOL 4201 Principles of Molecular Biology/Genetics (3 credits) will satisfy an upper-division biology elective or can substitute for BIOL 3030 Principles of Genetics (3 cr).
- PHSC 4101 or 4400 Principles of Drug Action (4 credits) will satisfy an upper-division biology elective and Senior Inquiry elective.
- PHAR 4113 Integrated Pharmacotherapy: Introduction to Pharmacist's Patient Care Process (1 credit) will satisfy an upper-division biology elective.
- PHAR 4114 Integrated Pharmacotherapy: Self Care and Dermatology (3 credits) will satisfy an upper-division biology elective.

\* Denoted core math/science prerequisite.

## Roadmap

Roadmaps are recommended semester-by-semester plans of study for programs and assume full-time enrollment unless otherwise noted.

Courses and milestones designated as critical (marked with !) must be completed in the semester listed to ensure a timely graduation. Transfer credit may change the roadmap.

This roadmap should not be used in the place of regular academic advising appointments. All students are encouraged to meet with their advisor/mentor each semester. Requirements, course availability and sequencing are subject to change.

Course	Title	Credits
<b>Year One</b>		
<b>Fall</b>		
BIOL 1240 & BIOL 1245	General Biology: Information Flow and Evolution and Principles of Biology I Laboratory	4
CHEM 1110 & CHEM 1115	General Chemistry 1 and General Chemistry 1 Laboratory	4
CORE 1000	Ignite First Year Seminar	2-3
ECON 1900	Principles of Economics	3
CORE 1500	Cura Personalis 1: Self in Community	1
CMM 1200	Public Speaking	3
<b>Credits</b>		<b>17-18</b>
<b>Spring</b>		
BIOL 1260 & BIOL 1265	General Biology: Transformations of Energy and Matter and Principles of Biology II Laboratory	4
CHEM 1120 & CHEM 1125	General Chemistry 2 and General Chemistry 2 Laboratory	4
STAT 1300 or MATH 1300	Elementary Statistics with Computers or Elementary Statistics with Computers	3
PSY 1010 or SOC 1100	General Psychology or Introduction to Sociology	3
ENGL 1900	Advanced Strategies of Rhetoric and Research	3
<b>Credits</b>		<b>17</b>
<b>Summer</b>		
HCE 3240	Bioethics after Auschwitz	3
BIOL 4330	Spring Flora of the Ozarks	4
<b>Credits</b>		<b>7</b>

### Year Two

#### Fall

HCE 1700	Death, Disability, Disease, and the Meaning of Life	3
CHEM 2410 & CHEM 2415	Organic Chemistry 1 and Organic Chemistry 1 Laboratory	4
MATH 1510	Calculus I	4
! ENGL 3xxx-4xxx	English Literature Course (that also meets the Eloquentia Perfecta Writing Intensive attribute)	3
BIOL 3020	Biochemistry and Molecular Biology	3
<b>Credits</b>		<b>17</b>

#### Spring

CHEM 2420 & CHEM 2425	Organic Chemistry 2 and Organic Chemistry 2 Laboratory	4
HCE 1600	Embodiment, Life, and Death in Context	3
BIOL 3010	Evolutionary Biology	3
CORE 2800	Eloquentia Perfecta 3: Creative Expression	3
BIOL 3040	Cell Structure & Function	3
<b>Credits</b>		<b>16</b>

### Year Three

#### Fall

BIOL 4540	Human Systemic Physiology	3
BIOL 4640 & BIOL 4650	General Microbiology and General Microbiology Laboratory	5
PHYS 1310 & PHYS 1320	College Physics I and College Physics I Laboratory	4
CORE 4000	Collaborative Inquiry	2-3
CORE 4500	Reflection-in-Action	0
<b>Credits</b>		<b>14-15</b>

#### Spring

BIOL 3420	Comparative Anatomy of the Vertebrates	5
PHYS 1330 & PHYS 1340	College Physics II and College Physics II Laboratory	4
BIOL 3470	General Physiology Laboratory	1
ANTH 2200	Cultural Anthropology	3
Upper-level Major Elective		3
<b>Credits</b>		<b>16</b>

**Total Credits 104-106**

## Contact Us

For more information about this and other Biology programs, please email us at [biology@slu.edu](mailto:biology@slu.edu).