

# BIOLOGY WITH A 3+3 TRACK TO PHARMD (BA)

This program was approved for students entering the university in the Summer 2024–Spring 2025 catalog year. For more information about catalog year, go to Catalog Year Information (<https://catalog.louisville.edu/undergraduate/university-wide-unit-specific-policies/catalog-year/>).

## Bachelor of Arts in Biology with a 3+3 Track to PharmD

Unit: College of Arts & Sciences (<https://louisville.edu/artsandsciences/intro/>)

Department: Biology (<https://louisville.edu/biology/>)

Academic Plan Code(s): BIOLBA\_3+3

## Program Information

The College of Arts and Sciences and Sullivan University have joined together to create a 3+3 accelerated program that will allow Biology majors at UofL to finish their final year of coursework for the BA in Biology in concurrence with their first year of PharmD at Sullivan University.

## Degree Summary

Code	Title	Hours
	General Education Requirements ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	31
	College/School Requirements	22
	Program/Major Requirements	37
	Supporting Courses	28
	Pharmacy Courses (Sullivan University) <sup>1</sup>	28
<b>Minimum Total Hours</b>		<b>122</b>

<sup>1</sup> After completion of year 1 pharmacy courses at Sullivan University, students will transfer their credits to UofL and can graduate with a BA in Biology.

## Departmental Admission Requirements

Admission to the BA in Biology requires completion of BIOL 240, BIOL 241, BIOL 242, and BIOL 243 with a grade of C or better; completion of MATH 111 with a grade of C or better OR placement into a mathematics course above the level of MATH 111 on the basis of either the University of Louisville mathematics placement examination or ACT/SAT score; and a minimum overall grade point average of 2.0

## Admission to Sullivan University - Pharmacy

The College of Pharmacy and Health Sciences offers a unique, year-round accelerated Doctor of Pharmacy (PharmD) program. Annually, a class of 50 to 60 students begin the program each July. The current qualifications for the joint degree program have been agreed upon by discipline faculty from the University of Louisville College of Arts and Sciences and Sullivan University College of Pharmacy and Health Sciences. All interested student must submit an application to the Sullivan University Doctor of Pharmacy program and meet the admission criteria.

Please see click here (<https://www.sullivan.edu/college-of-pharmacy-and-health-sciences/admissions/>) for specific admission information for Sullivan University.

## General Education Requirements

Code	Title	Hours
	General Education Requirements ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	31
The following courses are required by the program and can satisfy the respective General Education Requirement:		
BIOL 240	Unity of Life - S ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	
	or BIOL 242 Diversity of Life - S ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	
BIOL 241	Unity of Life Lab - SL ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	
	or BIOL 243 Diversity of Life Lab - SL ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	
CHEM 201	General Chemistry I - S ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	
	or CHEM 202 General Chemistry II - S ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	
MATH 180	Elements of Calculus - QR ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	
	or MATH 201 Calculus I - QR ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	

All degrees require the completion of the University-wide General Education Program (link provided above). Some General Education requirements may be met in the requirements for the major or supporting coursework, in which case additional electives may be required to complete the minimum hours for the degree.

## College/School Requirements

Code	Title	Hours
Arts & Sciences Requirements		
GEN 100	Student Success Center First Year Experience	1
	or GEN 101 Arts & Sciences First Year Experience	
Foreign Language		
Electives in Humanities or Social Sciences <sup>1</sup>		
WR - two approved courses at the 300 level or above		9
<b>Minimum Total Hours</b>		<b>22</b>

## Program/Major Requirements

Code	Title	Hours
BIOL 240	Unity of Life - S ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
BIOL 241	Unity of Life Lab - SL ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	1
BIOL 242	Diversity of Life - S ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3

BIOL 243	Diversity of Life Lab - SL ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	1
BIOL 329	Cellular and Molecular Biology	3
BIOL 330 & BIOL 331	Genetics and Molecular Biology Genetics and Molecular Biology: Laboratory	5
BIOL 363	Principles of Ecology	3
BIOL 409	Evolutionary Biology	3
Biology Electives		15
<b>Minimum Total Hours</b>		<b>37</b>

## Supplemental Courses (required for the BA)

Code	Title	Hours
CHEM 201	General Chemistry I - S ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
CHEM 207	Introduction to Chemical Analysis I - SL ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	1
CHEM 208	Introduction to Chemical Analysis II - SL ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	1
CHEM 202 & CHEM 209	General Chemistry II - S ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> ) Introduction to Chemical Analysis III	4
CHEM 341 & CHEM 343	Organic Chemistry I Organic Chemistry Laboratory I	5
CHEM 342 & CHEM 344	Organic Chemistry II Organic Chemistry Laboratory II	5
ENGL 101	Introduction to College Writing - WC ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
ENGL 102	Intermediate College Writing - WC ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
MATH 180 or MATH 205	Elements of Calculus - QR ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> ) Calculus I - QR ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
<b>Minimum Total Hours</b>		<b>28</b>

## Prerequisites required for Sullivan

Code	Title	Hours
BIOL 260	Human Anatomy & Physiology I <sup>2</sup>	3
BIOL 457 & BIOL 458	Microbiology Microbiology Laboratory <sup>2</sup>	4
<b>Minimum Total Hours</b>		<b>7</b>

## Sullivan Pharmacy Courses

Code	Title	Hours
PHR 5002	Human Physiology <sup>2</sup>	2.7
PHR 5200	Immunology <sup>2</sup>	2

PHR 5202	Biochemistry	2.7
PHR 5003	Pharmaceutics I	2
PHR 5001	Intro to Health Care Systems	1.3
PHR 5004	Pharmaceutical calculations with lab	2
PHR 5201	Medication Safety	2
PHR 5203	Pharmaceutical II with lab <sup>2</sup>	2
PHR 5007	Patient Care Lab	.7
PHR 5206	Patient Care Lab	.7
PHR 5400	Clinical Micro and Antibiotics	2
PHR 5402	Research Design	2
PHR 5603	Sterile Dosage	1.3
PHR 5407	Patient Care	.7
PHR 5406	Biotech	.7
PHR 5404	Public Health Issues	1.3
PHR 5604	Patient Care	.7
PHR 5605	Intro to Pharmacology	1.3
<b>Minimum Total Hours</b> <sup>3</sup>		<b>28</b>

<sup>1</sup> In addition to courses counted toward General Education; 6 hours must be at 300 level or above

<sup>2</sup> The specific courses are not required to graduate with a BA. They can be used to satisfy part of the required Biology electives for the major.

<sup>3</sup> After completion of year 1 pharmacy courses at Sullivan University, students will transfer their credits to UofL and can graduate with a BA in Biology.

Year 1		
Fall		Hours
GEN 101	Arts & Sciences First Year Experience	1
BIOL 240	Unity of Life - S ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
BIOL 241	Unity of Life Lab - SL ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	1
ENGL 101	Introduction to College Writing - WC ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
Oral Communications Cardinal Core Course OC		3
MATH 180 or MATH 205	Elements of Calculus - QR ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> ) or Calculus I - QR ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
Humanities or Social Science course		3
<b>Hours</b>		<b>17</b>
Spring		
BIOL 242	Diversity of Life - S ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
BIOL 243	Diversity of Life Lab - SL ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	1
CHEM 201	General Chemistry I - S ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
CHEM 207	Introduction to Chemical Analysis I - SL ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	1
CHEM 208	Introduction to Chemical Analysis II - SL ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	1
ENGL 102	Intermediate College Writing - WC ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
AHD2	Cardinal Core Course - AHD2	3
<b>Hours</b>		<b>15</b>

Year 2		
Fall		
BIOL 329	Cellular and Molecular Biology	3
CHEM 202	General Chemistry II - S ( <a href="https://catalog.louisville.edu/undergraduate/general-education-requirements/">https://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
CHEM 209	Introduction to Chemical Analysis III	1
SB Cardinal Core Course - SB		3
Foreign Language 1		4
AHD1 Cardinal Core Course - AHD1		3
<b>Hours</b>		<b>17</b>
Spring		
BIOL 330	Genetics and Molecular Biology	3
BIOL 331	Genetics and Molecular Biology Laboratory	2
BIOL 363	Principles of Ecology	3
CHEM 341	Organic Chemistry I	3
CHEM 343	Organic Chemistry Laboratory I	2
Foreign Language 2		4
<b>Hours</b>		<b>17</b>
Year 3		
Fall		
BIOL 409	Evolutionary Biology	3
BIOL 260	Human Anatomy & Physiology I (pre-req for Sullivan)	3
CHEM 342	Organic Chemistry II	3
CHEM 344	Organic Chemistry Laboratory II	2
Foreign Language 3		4
<b>Hours</b>		<b>15</b>
Spring		
BIOL 350	Biostatistics	3
BIOL 457	Microbiology (pre-req for Sullivan)	3
BIOL 458	Microbiology Laboratory (pre-req for Sullivan)	1
SB Cardinal Core Course - SBH		3
300+ WR HUM/SS course		3
300+ WR in HUM/SS course		3
<b>Hours</b>		<b>16</b>
<b>Minimum Total Hours</b>		<b>97</b>

Code	Title	Hours
<b>Year 4 - Courses taken at Sullivan University</b>		
<i>FALL (taken over two quarters)</i>		
PHR 5002	Human Physiology	2.7
PHR 5200	Immunology	2
PHR5202	Biochemistry	2.7
PHR 5003	Pharmaceutics I	2
PHR 5001	Intro to Health Care Systems	1.3
PHR 5004	Pharmaceutical calculations with lab	2
PHR 5201	Medication Safety	2
PHR 5203	Pharmaceutics II with lab	2
PHR 5007	Patient Care Lab	.7
PHR 5206	Patient Care Lab	.7
<b>Hours</b>		<b>18</b>
<i>SPRING (taken over two quarters)</i>		
PHR 5400	Clinical Micro and Antibiotics	2
PHR 5402	Research Design	2
PHR 5603	Sterile Dosage	1.3
PHR 5407	Patient Care	.7
PHR 5406	Biotech	.7
PHR 5404	Public Health Issues	1.3
PHR 5604	Patient Care	.7

PHR 5605 Intro to Pharmacology	1.3
<b>HOURS</b>	<b>10</b>
<b>Minimum Total Hours</b>	<b>122</b>

The Flight Plan outlined above is intended to demonstrate one possible path to completing the degree within four years. Course selection and placement within the program may vary depending on course offerings and schedule, elective preferences, and other factors (study abroad, internship availability, etc.). Please consult your advisor for additional information about building a flight plan that works for you.

### Degree Audit Report

Degree Audit reports illustrate how your completed courses fulfill the requirements of your academic plan, and which requirements are still outstanding. Degree audits also take transfer credits and test credits into account. "What-if" reports allow you to compare the courses you have completed in your current academic plan to the courses required in another academic plan. Should you have questions about either report, please consult with your academic advisor.

### Flight Planner

The Flight Planner tool is available for you to create a personalized Flight Plan to graduation. Advisors have access to review your Flight Planner and can help you adjust it to ensure you remain on track to graduate in a timely manner.

### To create these reports:

1. Log into your ULink account.
2. Click on the Academic Progress tile.
3. Select the appropriate report.
  - a. To run a Degree Audit report, click on "View my Degree Audit."
  - b. To create a What-if report, click on "Create a What-if Advisement Report."
  - c. To run a Flight Planner report, click on "Use My Flight Planner."

Click here to run a Degree Audit report, create a What-if report, or run a Flight Planner report. (<https://ulink.louisville.edu>)