

BIOLOGY WITH A 3+3 TRACK TO PHARM D (BA)

This program was approved for students entering the university in the Summer 2023–Spring 2024 catalog year. For more information about catalog year, go to Catalog Year Information (<http://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 (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	31
	College/School Requirements	22
	Program/Major Requirements	37
	Supporting Courses	28
	Pharmacy Courses (Sullivan University) ¹	28
	Minimum Total Hours	122

¹ 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 \(https://www.sullivan.edu/college-of-pharmacy-and-health-sciences/admissions/\)](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 (http://catalog.louisville.edu/undergraduate/general-education-requirements/)	31

The following courses are required by the program and can satisfy the respective General Education Requirement:

BIOL 240	Unity of Life	
	or BIOL 242 Diversity of Life	
BIOL 241	Unity of Life Lab	
	or BIOL 243 Diversity of Life Lab	
CHEM 201	General Chemistry I	
	or CHEM 202 General Chemistry II	
MATH 180	Elements of Calculus	
	or MATH 201 Calculus I	

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	12
	Electives in Humanities or Social Sciences ¹	9
	WR - two approved courses at the 300 level or above	
	Minimum Total Hours	22

Program/Major Requirements

Code	Title	Hours
BIOL 240	Unity of Life	3
BIOL 241	Unity of Life Lab	1
BIOL 242	Diversity of Life	3
BIOL 243	Diversity of Life Lab	1
BIOL 329	Cellular and Molecular Biology	3
BIOL 330	Genetics and Molecular Biology	5
& BIOL 331	Genetics and Molecular Biology: Laboratory	
BIOL 363	Principles of Ecology	3
BIOL 409	Evolutionary Biology	3
	Biology Electives	15
	Minimum Total Hours	37

Supplemental Courses (required for the BA)

Code	Title	Hours
CHEM 201	General Chemistry I	3
CHEM 207	Introduction to Chemical Analysis I	1
CHEM 208	Introduction to Chemical Analysis II	1
CHEM 202	General Chemistry II	4
& CHEM 209	Introduction to Chemical Analysis III	

CHEM 341	Organic Chemistry I	5
& CHEM 343	Organic Chemistry Laboratory I	
CHEM 342	Organic Chemistry II	5
& CHEM 344	Organic Chemistry Laboratory II	
ENGL 101	Introduction to College Writing	3
ENGL 102	Intermediate College Writing	3
MATH 180	Elements of Calculus	3
or MATH 205	Calculus I	

Minimum Total Hours 28

Prerequisites required for Sullivan

Code	Title	Hours
BIOL 260	Human Anatomy & Physiology I ²	3
BIOL 457	Microbiology	4
& BIOL 458	Microbiology Laboratory ²	

Minimum Total Hours 7

Sullivan Pharmacy Courses

Code	Title	Hours
PHR 5002	Human Physiology ²	2.7
PHR 5200	Immunology ²	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 ²	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

Minimum Total Hours ³ 28

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

² 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.

³ 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		Hours
Fall		
GEN 101	Arts & Sciences First Year Experience	1
BIOL 240	Unity of Life	3
BIOL 241	Unity of Life Lab	1
ENGL 101	Introduction to College Writing	3
Oral Communications Cardinal Core Course OC		3

MATH 180	Elements of Calculus	3
or MATH 205	or Calculus I	
Humanities or Social Science course		3

Hours 17

Spring		Hours
BIOL 242	Diversity of Life	3
BIOL 243	Diversity of Life Lab	1
CHEM 201	General Chemistry I	3
CHEM 207	Introduction to Chemical Analysis I	1
CHEM 208	Introduction to Chemical Analysis II	1
ENGL 102	Intermediate College Writing	3
AHD2 Cardinal Core Course - AHD2		3

Hours 15

Year 2		Hours
Fall		
BIOL 329	Cellular and Molecular Biology	3
CHEM 202	General Chemistry II	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

Hours 17

Spring		Hours
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

Hours 17

Year 3		Hours
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

Hours 15

Spring		Hours
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

Hours 16

Minimum Total Hours 97

Code	Title	Hours
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Year 4 - Courses taken at Sullivan University

FALL (taken over two quarters)		Hours
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
Hours	18
<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
HOURS	10
Minimum Total Hours	122