

# BIOLOGY WITH A 3+4 TRACK TO DMD (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 (<http://catalog.louisville.edu/undergraduate/university-wide-unit-specific-policies/catalog-year/>).

## Bachelor of Arts in Biology with a 3+4 Track to DMD

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

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

Academic Plan Code(s): BIOLBA\_3+4

## Program Information

The College of Arts and Sciences and the School of Dentistry have joined together to create a 3+4 accelerated program. This is an accelerated program for those Biology students who want to complete their Bachelor's degree and DMD degree in 7 years instead of the typical 8 years. Undergraduates in the B.A. program would apply to the Dental School to attend in what would normally be their fourth year of undergraduate work and, after their first year at ULSD, they would transfer credits back to A&S and be able to receive the B.A. Students in this program will gain the same skills as a student earning both degrees but will do so faster and be able to join the workforce that much quicker.

## Degree Summary

Code	Title	Hours
	General Education Requirements ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	31
	College/School Requirements	22
	Program/Major Requirements	35
	Supporting Courses	32
	Dentistry Courses (Dental School) <sup>1</sup>	58.5
	<b>Minimum Total Hours</b>	<b>178.5</b>

<sup>1</sup> After completion of their first year at ULSD, students will transfer credits back to A&S and can graduate with a BA in Biology.

## Departmental Admission Requirements

Admission to the BA in this program is the same as for a BA only. 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 UofL School of Dentistry (ULSD)

The Committee on Admissions selects students based on academic proficiency in pre-dental studies, performance on the Dental Admissions Test, recommendations, and nonacademic factors assessed in a personal interview. 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 School of Dentistry. All interested student must apply to the University of Louisville School of Dentistry program and meet the admission criteria.

## General Education Requirements

Code	Title	Hours
	General Education Requirements ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://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="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
or BIOL 242	Diversity of Life - S ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	
BIOL 241	Unity of Life Lab - SL ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	1
or BIOL 243	Diversity of Life Lab - SL ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	
CHEM 201	General Chemistry I - S ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
or CHEM 202	General Chemistry II - S ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	
MATH 180	Elements of Calculus - QR ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
or MATH 205	Calculus I - QR ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	
ENGL 101	Introduction to College Writing - WC ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
ENGL 102	Intermediate College Writing - WC ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3

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 101	Arts & Sciences First Year Experience	1
	Foreign Language	12
	Electives in Humanities or Social Sciences <sup>1</sup>	9
	WR - two approved courses at the 300 level or above	
	<b>Minimum Total Hours</b>	<b>22</b>

## Program/Major Requirements

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

BIOL 242	Diversity of Life - S ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
BIOL 243	Diversity of Life Lab - SL ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://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 350	Biostatistics	3
BIOL 363	Principles of Ecology	3
BIOL 409	Evolutionary Biology	3
BIOL 396	Preview to Dentistry -WR - WR ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
BIOL 457	Microbiology	3
BIOL 458	Microbiology Laboratory	1
BIOL 540	Metabolic Biochemistry	3
<b>Minimum Total Hours</b>		<b>35</b>

## Supplemental Courses (required for the BA)

Code	Title	Hours
CHEM 201	General Chemistry I - S ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
CHEM 207	Introduction to Chemical Analysis I - SL ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	1
CHEM 208	Introduction to Chemical Analysis II - SL ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	1
CHEM 202 & CHEM 209	General Chemistry II - S ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://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
MATH 180	Elements of Calculus - QR ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
or MATH 205	Calculus I - QR ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	
PHYS 111	Elements of Physics - B ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	4
<b>Minimum Total Hours</b>		<b>26</b>

## School of Dentistry Courses

Code	Title	Hours
BMSC 804	Integrated Biomedical Sciences I	9
BMSC 805	Integrated Biomedical Sciences II	12
CMPD 800	Dental Anatomy and Occlusion	2
CMPD 801	Dental Anatomy and Occlusion Lab	3

CMPD 850	Foundations of Behavioral Science in Dentistry I	1
CMPD 883	Evidence-Based Decision Making	0.5
CMPD 887	Professionalism & Ethics Fundamentals	1
DXOH 801	Infection Control	1
OIID 800	Correlated Sciences	1
CMPD 820	Introduction to Clinical Dentistry I	2.5
CMPD 863	Clinical Grand Rounds, First Year DMD Students	1
BMSC 807	Pharmacology and Dental Therapeutics	4
BMSC 809	Integrated Biomedical Sciences III	10
CMPD 810	Preclinical Operative Dentistry Lecture	2.5
CMPD 811	Preclinical Operative Dentistry (Lab)	3
CMPD 860	Introduction to Preventive Dentistry	1
CMPD 870	Growth and Development	1
DXOH 813	Oral Radiology I	2
DXOH 851	Periodontics I	1
<b>Minimum Total Hours</b>		<b>58.5</b>

## Flight Plan

Year 1		Hours
Fall		
GEN 101	Arts & Sciences First Year Experience	1
BIOL 240	Unity of Life - S ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
CHEM 201	General Chemistry I - S ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
BIOL 241	Unity of Life Lab - SL ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	1
CHEM 207	Introduction to Chemical Analysis I - SL ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	1
CHEM 208	Introduction to Chemical Analysis II - SL ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	1
ENGL 101	Introduction to College Writing - WC ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
Oral Communications Cardinal Core Course OC		3
<b>Hours</b>		<b>16</b>
Spring		
BIOL 242	Diversity of Life - S ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
BIOL 243	Diversity of Life Lab - SL ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	1
MATH 180 or MATH 205	Elements of Calculus - QR ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> ) or Calculus I - QR ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
CHEM 202	General Chemistry II - S ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
CHEM 209	Introduction to Chemical Analysis III	1
ENGL 102	Intermediate College Writing - WC ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
AHD2 Cardinal Core Course - AHD2		3
<b>Hours</b>		<b>17</b>
Year 2		
Fall		
BIOL 329	Cellular and Molecular Biology	3
CHEM 341	Organic Chemistry I	3
CHEM 343	Organic Chemistry Laboratory I	2
AHD1 Cardinal Core Course - AHD1		3

Foreign Language 1		4
SB Cardinal Core Course - SBH		3
<b>Hours</b>		<b>18</b>
<b>Spring</b>		
BIOL 330	Genetics and Molecular Biology	3
BIOL 331	Genetics and Molecular Biology Laboratory	2
CHEM 342	Organic Chemistry II	3
CHEM 344	Organic Chemistry Laboratory II	2
Foreign Language 2		4
BIOL 396	Preview to Dentistry -WR - WR ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	3
<b>Hours</b>		<b>17</b>
<b>Summer</b>		
300+ WR HUM/SS Course		3
<b>Hours</b>		<b>3</b>
<b>Year 3</b>		
<b>Fall</b>		
300+ WR in Hum/SS Course		3
BIOL 540	Metabolic Biochemistry	3
BIOL 409	Evolutionary Biology	3
Foreign Language 3		4
PHYS 111	Elements of Physics - B ( <a href="http://catalog.louisville.edu/undergraduate/general-education-requirements/">http://catalog.louisville.edu/undergraduate/general-education-requirements/</a> )	4
<b>Hours</b>		<b>17</b>
<b>Spring</b>		
BIOL 350	Biostatistics	3
SBH Cardinal Core Course - SBH		3
BIOL 457	Microbiology	3
BIOL 458	Microbiology Laboratory	1
BIOL 363	Principles of Ecology	3
300+ WR in HUM/SS Course		3
<b>Hours</b>		<b>16</b>
<b>Year 4</b>		
<b>Fall</b>		
BMSC 804	Integrated Biomedical Sciences I	9
BMSC 805	Integrated Biomedical Sciences II	12
CMPD 800	Dental Anatomy and Occlusion	2
CMPD 801	Dental Anatomy and Occlusion Lab	3
CMPD 850	Foundations of Behavioral Science in Dentistry I	1
CMPD 883	Evidence-Based Decision Making	0.5
CMPD 887	Professionalism & Ethics Fundamentals	1
DXOH 801	Infection Control	1
OIID 800	Correlated Sciences	1
CMPD 820 (year-long class, graded at end of spring year 4)		
CMPD 863 (year-long class, graded at end of spring year 4)		
<b>Hours</b>		<b>30.5</b>
<b>Spring</b>		
BMSC 807	Pharmacology and Dental Therapeutics	4
BMSC 809	Integrated Biomedical Sciences III	10
CMPD 810	Preclinical Operative Dentistry Lecture	2.5
CMPD 811	Preclinical Operative Dentistry (Lab)	3
CMPD 860	Introduction to Preventive Dentistry	1
CMPD 870	Growth and Development	1
DXOH 813	Oral Radiology I	2
DXOH 851	Periodontics I	1
CMPD 820	Introduction to Clinical Dentistry I	2.5
CMPD 863	Clinical Grand Rounds, First Year DMD Students	1
<b>Hours</b>		<b>28</b>
<b>Minimum Total Hours</b>		<b>162.5</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:

- a. Log into your ULink account.
- b. Click on the Academic Progress tile.
- c. Select the appropriate report.
  - i. To run a Degree Audit report, click on "View my Degree Audit."
  - ii. To create a What-if report, click on "Create a What-if Advisement Report."
  - iii. 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>)