

## Biology Transfer Pathway

for Ohio Community College students  
transferring to Ohio Dominican University

November 2022



This document outlines the [statewide Ohio Guaranteed Transfer Pathway \(OGTP\) in Biology](#) that has been designed to provide clarity and consistency for college courses transferring between Ohio 2-year and 4-year public institutions.

This same transfer pathway in biology is now approved for students transferring to Ohio Dominican University, through a partnership between 11 Ohio community colleges and 14 private colleges called the [Ohio Consortium for Transfer Pathways to the Liberal Arts](#), and whose faculty and administration have collaborated to expand access and credit clarity for students transferring with an associate's degree from an Ohio community college to an Ohio private college or university.

Pages 1 & 2 of this document outline **community college courses that are approved statewide** for transfer credit toward the bachelor of science degree in biology at an approved 4-year institution. Pages 3-5 show how these courses transfer to Ohio Dominican University to meet bachelor degree requirements.

COMMUNITY COLLEGE – ASSOCIATE DEGREE COURSEWORK – TOTAL 60-65 CREDITS GENERAL EDUCATION REQUIREMENTS/OHIO TRANSFER 36		Minimum Credit Hours
ENGLISH COMPOSITION AND ORAL COMMUNICATION:		3
Course 1:	Any OT36 approved First Writing course	3
MATHEMATICS, STATISTICS AND LOGIC		4-5
Course 1:	Calculus I <sup>1</sup>	4-5
ARTS AND HUMANITIES (Two courses from two different areas)		6
Course 1:	Any OT36 approved Arts and Humanities course	3
Course 2:	Any OT36 approved Arts and Humanities course	3
SOCIAL AND BEHAVIORAL SCIENCES (Two courses from two different areas)		6
Course 1:	Any OT36 approved Social and Behavioral Sciences course [Introduction to Psychology recommended for pre-medicine]	3
Course 2:	Any OT36 approved Social and Behavioral Sciences course [Introduction to Sociology recommended for pre-medicine]	3
NATURAL SCIENCES		8-10
Course 1:	General Chemistry I with lab	4-5
Course 2:	General Chemistry II with lab	4-5
ADDITIONAL CREDITS		10
Course 1:	Any OT36 approved Second Writing course	3
Course 2:	Up to 7 additional hours of OT36 approved courses <sup>2</sup>	7
GENERAL EDUCATION/OHIO TRANSFER 36 TOTAL:		37-40

**Advising Notes:**

Where it indicates "Any OT36 approved," students should work closely with their advisors.

<sup>1</sup> A prerequisite, such as College Algebra, may be needed for a student to reach Calculus I. The math requirement may vary by institution, and students planning to pursue a Bachelor of Arts in Biology may only need Pre-Calculus. Check with your academic advisor and your receiving institution to determine the appropriate mathematics course.

<sup>2</sup> Due to the variability across institutions, students should work with their academic advisor to determine an appropriate program of study and appropriate amount of additional credits to satisfy the OT36.

COMMUNITY COLLEGE – ASSOCIATE DEGREE COURSEWORK – <i>Continued from page 1</i>		Minimum credit hours
<b>PRE-MAJOR/BEGINNING MAJOR</b>		
Course 1:	Biology I	4-5
Course 2:	Biology II	4-5
Course 3:	Calculus-based Physics I with lab or Algebra-based Physics I with lab or biology course <sup>1</sup>	4-5
<b>PRE-MAJOR/BEGINNING MAJOR TOTAL:</b>		<b>12-15</b>
<b>OTHER REQUIREMENTS</b>		
Courses 1 and 2:	Full-Year Sequence of Organic Chemistry with lab <sup>2</sup> [Not required but highly recommended for pre-medicine]	8-12
Electives:	General Electives as needed (May include FYE or Orientation course) <sup>3</sup>	4-5
<b>OTHER REQUIREMENTS TOTAL:</b>		<b>8-18</b>
<b>Advising Notes:</b>		
<p><sup>1</sup> The amount and type of physics (calculus or non-calculus-based) required in the biological sciences varies from institution to institution. Many institutions require at least one semester of physics, others none. If physics is not a program requirement, an appropriate biology course should be selected with the guidance of your academic advisor. Please consult with your academic advisor and your receiving institution within the first year of study to determine an appropriate course of study.</p> <p><sup>2</sup> The statewide transfer guarantee applies to the full-year sequence. All non-sequence coursework will be reviewed on a course-by-course basis by the receiving institution for transfer and application to the major. Not all institutions require Organic Chemistry, although it may be required for students who are pre-medicine. Consult with your academic advisor and your receiving institution.</p> <p><sup>3</sup> Certain institutions may require two semesters or more of foreign language for Bachelor of Arts and Bachelor of Science degrees. If so, foreign language should be taken – check with your receiving institution.</p> <p>Additional recommended pre-major/major coursework may include courses in cell biology, microbiology, or genetics. Consult with your academic advisor and your receiving institution to determine an appropriate program of study.</p>		
<b>Associate Degree</b>		<b>Total Credit Hours</b>
<b>ASSOCIATE DEGREE TOTAL:</b>		<b>60-65</b>
<b>SPECIAL NOTES</b>		
<p>Students with plans of pursuing a pre-professional or graduate studies track in the future should work closely with their academic advisor and receiving institution starting in the first year of their program to adequately prepare themselves for those types of tracks. Some pre-professional degrees include pre-medicine, pre-veterinary, pre-law, and pre-dentistry.</p> <p>Students should check with individual institutions for their program admission requirements.</p> <p>Some bachelor-degree granting institutions require additional general education courses outside of the OT36 and students may be required to take these courses in their junior or senior year. Students will still be able to follow this pathway and complete their bachelor's degree in approximately 60 additional credit hours.</p>		



## How Biology Pathway Courses Transfer to Ohio Dominican University

A student transferring to Ohio Dominican University with the associate of science degree and biology transfer pathway completed will receive maximum credit, placing them at or near junior standing with introductory coursework in the biology major completed. Most or all of the Ohio Dominican University general education requirements can be completed as part of the associate degree, through planning with a transfer advisor. Students interested in transferring to Ohio Dominican University should meet with an admission counselor regarding optimal course selection and admission requirements.

The following table outlines how transfer credits from the biology transfer pathway and associate's degree will be applied to the Bachelor of Science in Biology degree at Ohio Dominican University.

OHIO DOMINICAN UNIVERSITY COURSE EQUIVALENCIES FROM THE ASSOCIATE DEGREE PATHWAY	Course Number	Credit Hours
<b>GENERAL EDUCATION REQUIREMENTS/OHIO TRANSFER 36</b>		
Any OT36 approved First Writing course	ENG110	3
Any OT36 approved Second Writing course	ENG111	3
Calculus I or Pre-Calculus	MTH240 or MTH160	4-5
Any OT36 approved Arts and Humanities course	OT36 Elective	3
Any OT36 approved Arts and Humanities course	OT36 Elective	3
Any OT36 approved Social and Behavioral Sciences course (Introduction to Psychology recommended for pre-medicine)	PSY100 or OT36 Elective	3
Any OT36 approved Social and Behavioral Sciences course (Introduction to Sociology recommended for pre-medicine)	SOC101 or OT36 Elective	3
General Chemistry I with lab	CHM109	4-5
General Chemistry II with lab	CHM110	4-5
Up to 7 additional hours of OT36 approved courses	OT36 Electives	7
<b>PRE-MAJOR/BEGINNING MAJOR</b>		
Biology I	BIO201	4-5
Biology II	BIO202	4-5
Calculus-based Physics I with lab or Algebra-based Physics I with lab or biology course	PHY219 PHY119	4-5
<b>OTHER RECOMMENDATIONS</b>		
Full-Year Sequence of Organic Chemistry with lab	CHM229 CHM230	8-12
Electives	OT36 Electives	4-5
<b>TOTAL HOURS FROM ASSOCIATE DEGREE:</b>		<b>60-65</b>

### Advising Notes:

This Transfer Pathway completes the Associate of Science degree, which must total at least 60 semester credits and includes 36 credits of the Ohio Transfer 36 (OT36), which are approved general education requirements. OT36 details can be found at <https://transfercredit.ohio.gov/initiatives-upd/ohio-transfer-36>.



## Biology Transfer Pathway

### Remaining Courses to Complete at Ohio Dominican University

This table outlines the remaining coursework required for the bachelor of science in biology degree at Ohio Dominican University.

REMAINING COURSEWORK TO COMPLETE THE BACHELOR'S DEGREE AT OHIO DOMINICAN UNIVERSITY	Course Number	Credit Hours
<b>INSTITUTIONAL DEGREE REQUIREMENTS</b>		
CORE 379	XXX379	3
Foreign Language	LNG242 or SPN252	3
Arts and Ideas Course <sup>1</sup> (History, Art, or Literature)	XXX	3
Theology Course	THLXXX	3
Theology Course (>200 level)	THL2XX	3
Philosophy Course	PHLXXX	3
Philosophy Course (>200 level)	PHL2XX	3
<b>MAJOR REQUIREMENTS</b>		
General Biology: Vertebrate Anatomy & Physiology	BIO203	4
Ecology	BIO330	4
Genetics	BIO366	4
Cell and Molecular Biology	BIO469	4
Nine credits from BIO, ENV, or EXSC courses above 203 except BIO279A	XXX	>9
Introduction to the Sciences	SCI125	3
CORE: Research in the Sciences	SCI479	3
Organic Chemistry I	CHM229	4
Biochemistry	CHM451	3
Introduction to Statistics	MTH140	3
<b>OTHER BACHELOR DEGREE REQUIREMENTS</b>		
Electives		Varies
<b>TOTAL REMAINING COURSEWORK TO COMPLETE BACHELOR'S DEGREE</b>		<b>60-65</b>

#### Advising Notes:

The number of credit hours vary depending on whether the student has completed the organic chemistry sequence. The chemistry minor presents the best pathway to completion of the academic minor for those students seeking admission to medical school.

A candidate for a baccalaureate degree at Ohio Dominican University must have completed all the course and proficiency requirements for that particular degree and must earn not less than 120 semester hours (60 hours for associate degree) of college work with a grade point average of not less than 2.0.

Ohio Dominican University requires courses in History and a Fine Art (Art, Music, or Theater) as part of its general education requirements, so it is recommended that students use the Arts and Humanities electives in this area.

Additionally, ODU requires 6 credits of Philosophy (3 at 100 level, 3 at 200 or higher). It is recommended that students use additional electives to complete these.

ODU only requires 1 natural science course, with or without a lab component.

2 Social and Behavioral Science courses are required in different disciplines (e.g. Psychology and Economics, or Sociology and Criminal Justice).

# Sample Degree Map for Biology Transfer Pathway

## Ohio Dominican University



This sample degree map shows how students who transfer to Ohio Dominican University with the biology transfer pathway can complete the bachelor's degree in four semesters.

### THIRD YEAR

SEMESTER 5	
Course Name & Number	Credit Hours
Organic Chemistry I (CHM229)	4
Vertebrate Anatomy & Physiology (BIO203)	4
Introduction to Sciences (SCI125)	3
Introduction to Statistics (MTH140)	3
Philosophy Course	3
<b>Total Semester Credit Hours</b>	<b>17</b>

SEMESTER 6	
Course Name & Number	Credit Hours
Ecology (BIO330)	4
Biology Elective	3-4
Foreign Language	3
CORE379	3
Philosophy Course	3
<b>Total Semester Credit Hours</b>	<b>16-17</b>

### FOURTH YEAR

SEMESTER 7	
Course Name & Number	Credit Hours
Genetics (BIO366)	4
Biochemistry (CHM451)	3
Biology Elective	3-4
Theology Course	3
Arts and Ideas Course	3
<b>Total Semester Credit Hours</b>	<b>16-17</b>

SEMESTER 8	
Course Name & Number	Credit Hours
Cell and Molecular Biology (BIO469)	4
Research in the Sciences (SCI479)	4
Biology Elective	3-4
Theology Course	3
<b>Total Semester Credit Hours</b>	<b>14-15</b>