

# Biology Transfer Pathway

for Ohio Community College students  
transferring to Ohio Wesleyan 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 Wesleyan 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 Wesleyan 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 (OSS021) 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><b>PLEASE NOTE:</b> The Ohio Wesleyan academic program is conducted by semester, but credits are based on units rather than on semester hours. This document shows course equivalencies for required classes. At Ohio Wesleyan, a unit of credit is equivalent to 3.75 semester hours. A 3-hour semester course would be equivalent to .80 units and a 4-hour semester course would count as 1.07 units. OWU requires that students earn a grade of C- or higher for courses to transfer.</p> <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 Wesleyan University

A student transferring to Ohio Wesleyan 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 Wesleyan 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 Wesleyan University should meet with an admission counselor regarding optimal course selection and admission requirements.

The following table outlines how transfer credits will be applied to the Bachelor of Arts in Biology degree (with similar requirements for other degrees in the Biological Sciences; See <https://www.owu.edu/academics/departments-programs/biological-sciences-department/biology-major/>) at Ohio Wesleyan University.

OHIO WESLEYAN 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	ENG XXX	3
Any OT36 approved Second Writing course	ENG XXX	3
Calculus I or Pre-Calculus	MATH 108 / MATH 110	4-5 (1)
Any OT36 approved Arts and Humanities course	OT36 A&H Elective	3
Any OT36 approved Arts and Humanities course	OT36 A&H Elective	3
Any OT36 approved Social and Behavioral Sciences course (Introduction to Psychology recommended for pre-medicine)	OT36 S&BS Elective	3
Any OT36 approved Social and Behavioral Sciences course (Introduction to Sociology recommended for pre-medicine)	OT36 S&BS Elective	3
General Chemistry I with lab	CHEM 110	4-5 (1.25)
General Chemistry II with lab	CHEM 111	4-5 (1.25)
Up to 7 additional hours of OT36 approved courses	OT36 Electives	7
<b>PRE-MAJOR/BEGINNING MAJOR</b>		
Biology I	BIOL 120	4-5 (1.25)
Biology II	BIOL 122	4-5 (1.25)
Calculus-based Physics I with lab or Algebra-based Physics I with lab or biology course	PHYS 110 or PHYS 115	4-5 (1.25)
<b>OTHER RECOMMENDATIONS</b>		
Full-Year Sequence of Organic Chemistry with lab	CHEM 260/262 CHEM 261/263	8-12 (2.5 total)
Electives	OT36 Electives	
<b>TOTAL HOURS FROM ASSOCIATE DEGREE:</b>		<b>60-65</b>

### Advising Notes:

**PLEASE NOTE:** The Ohio Wesleyan academic program is conducted by semester, but credits are based on units rather than on semester hours. This document shows course equivalencies for required classes. At Ohio Wesleyan, a unit of credit is equivalent to 3.75 semester hours. A 3-hour semester course would be equivalent to .80 units and a 4-hour semester course would count as 1.07 units. OWU requires that students earn a grade of C- or higher for courses to transfer.

## Biology Transfer Pathway

Remaining Courses to Complete at  
Ohio Wesleyan University

This table outlines the remaining coursework required for the Bachelor of Arts in Biology degree at Ohio Wesleyan University.

REMAINING COURSEWORK TO COMPLETE THE BACHELOR'S DEGREE AT OHIO WESLEYAN UNIVERSITY	Course Number	Credit Hours
<b>INSTITUTIONAL DEGREE REQUIREMENTS</b>		
See advising notes below.		
<b>MAJOR REQUIREMENTS</b>		
Genetics or Evolution	BIOL 261 or BIOL 271	1
5 upper-division BIOL courses (4 with lab)	Many options	6
3 additional math, science, or computer science courses	Many options	3
See <a href="https://www.owu.edu/academics/departments-programs/biological-sciences-department/biology-major/">https://www.owu.edu/academics/departments-programs/biological-sciences-department/biology-major/</a>		
<b>OTHER BACHELOR DEGREE REQUIREMENTS</b>		
Social Sciences (3 OWU credits)		3
Humanities/Literature (3 OWU credits)		3
Art (1 OWU credit)		1
<b>TOTAL REMAINING COURSEWORK TO COMPLETE BACHELOR'S DEGREE</b>		<b>60-65</b>

**Advising Notes:**

**Please see specific two-year plan on following page.**

Minimum 31 whole-unit courses (equivalent to 3.75 semester hours)

Minimum 15 upper-level (Course Number 250 or higher) whole-unit courses

Competency in Writing (3 classes from any field w/ writing attribute)

Cultural Diversity (1 OWU credit)

Quantitative Reasoning (1 OWU credit; will be met above)

Language Requirement (2 OWU credits)

Transfer Connection Course (0.25 OWU credits)

3 additional math, science, or computer science courses

OWU will institute new General Education requirements in Fall 2023 that differ from the current institutional requirements. Students should talk with an OWU transfer advisor about course selection.

# Sample Degree Map for Biology Transfer Pathway

## Ohio Wesleyan University



This sample degree map shows how students who transfer to Ohio Wesleyan University with the biology transfer pathway can complete the Bachelor of Arts in Biology degree in four semesters.

### THIRD YEAR

SEMESTER 5	
Course Name & Number	Credits
Evolution (BIOL 271)	1
Transfer Connection (UC230)	0.25
Upper-division Biology course w/ lab	1.25
Language	1
<b>Total Semester Credit Hours</b>	<b>3.5</b>

SEMESTER 6	
Course Name & Number	Credits
Upper-division Biology course w/ lab	1.25
Language	1
Upper-division Biology course w/o lab	1
Elective (Cultural Diversity)	1
<b>Total Semester Credit Hours</b>	<b>4.25</b>

### FOURTH YEAR

SEMESTER 7	
Course Name & Number	Credits
Upper-division Biology course w/ lab	1.25
Elective (Science/Math/Computer Science)	1
Elective (Upper-division)	1
Elective (Upper-division)	1
<b>Total Semester Credit Hours</b>	<b>4.25</b>

SEMESTER 8	
Course Name & Number	Credits
Upper-division Biology course w/ lab	1.25
Elective (Upper-division)	1
Elective (Upper-division)	1
Elective (Upper-division)	1
<b>Total Semester Credit Hours</b>	<b>4.25</b>