

Biology Transfer Pathway

for Ohio Community College students
transferring to Hiram College

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 Hiram College, 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 Hiram College 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 ¹ or Statistics	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 ²	7
GENERAL EDUCATION/OHIO TRANSFER 36 TOTAL:		37-40

Advising Notes:

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

¹ 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.

² 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
PRE-MAJOR/BEGINNING MAJOR		
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 ¹	4-5
PRE-MAJOR/BEGINNING MAJOR TOTAL:		12-15
OTHER REQUIREMENTS		
Courses 1 and 2:	Full-Year Sequence of Organic Chemistry with lab ² [Not required but highly recommended for pre-medicine and pre-veterinary]	8-12
Electives:	General Electives as needed (May include FYE or Orientation course) ³	4-5
OTHER REQUIREMENTS TOTAL:		8-18
<p>Advising Notes:</p> <p>¹ 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>² 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>³ 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>		
Associate Degree		Total Credit Hours
ASSOCIATE DEGREE TOTAL:		60-65
SPECIAL NOTES		
<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 Hiram College



A student transferring to Hiram College 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 Hiram College general education requirements can be completed as part of the associate degree, through planning with a transfer advisor. Students interested in transferring to Hiram College 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 Arts in Biology degree at Hiram College.

HIRAM COLLEGE COURSE EQUIVALENCIES FROM THE ASSOCIATE DEGREE PATHWAY	Course Number	Credit Hours
GENERAL EDUCATION REQUIREMENTS/OHIO TRANSFER 36		
Any OT36 approved First Writing course	UCS 10101	3
Any OT36 approved Second Writing course	WRIT 15200	3
Calculus I ¹	MATH 19800	4
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)	PSYC 10100 or OT36 S&BS Elective	3
Any OT36 approved Social and Behavioral Sciences course (Introduction to Sociology recommended for pre-medicine)	SOCI 15500 or OT36 S&BS Elective	3
General Chemistry I with lab	CHEM 12000	4
General Chemistry II with lab	CHEM 12100	4
Up to 7 additional hours of OT36 approved courses	OT36 Electives	7
PRE-MAJOR/BEGINNING MAJOR		
Biology I	BIOL 15100	4
Biology II	BIOL 15200	4
Calculus-based Physics I with lab or Algebra-based Physics I with lab or biology course ²	PHYS 21300 or PHYS 11300	4
OTHER RECOMMENDATIONS		
Full-Year Sequence of Organic Chemistry with lab	CHEM 22000 CHEM 32000	8
Electives	OT36 Electives	4-5
TOTAL HOURS FROM ASSOCIATE DEGREE:		60-65

Advising Notes:

¹ MATH 10800 Statistics equivalent may also be taken.

² Two semesters of Physics will be required pre-medicine majors and may be required for pre-veterinary, consult your academic adviser.

This Transfer Pathway completes the Associate of Arts 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>.

Students with this earned associates degree and who satisfy the Ohio Transfer 36 will satisfy Hiram's CORE requirements (the eight ways of knowing)

Biology Transfer Pathway

Remaining Courses to Complete at
Hiram College

This table outlines the remaining coursework required for the Bachelor of Arts in Biology degree at Hiram College.

REMAINING COURSEWORK TO COMPLETE THE BACHELOR'S DEGREE AT HIRAM COLLEGE	Course Number	Credit Hours
INSTITUTIONAL DEGREE REQUIREMENTS		
Addressing Urgent Questions	UCS 20201	4
Urgent Challenges Seminar	UCS 30301	4
MAJOR REQUIREMENTS- will vary depending on Biology track chosen (Pre-medicine, Pre-veterinary, Pre-Physical Therapy, Organismal Biology, Ecology and Evolution, Genes Genomes and Cells, Bio-Innovation)		
Ecology with lab	BIOL 27800	4
Molecular and Cellular Biology with lab	BIOL 23000	4
Genetics with lab	BIOL 36500	4
Senior Seminar: Apprenticeship Experience	BIOL 48110	2
Biology Electives (at least 3) based on chosen track; 200 level or higher ^{1,2}	BIOL 2XXXX	9-12
OTHER BACHELOR DEGREE REQUIREMENTS²		
Hiram Connect Experience- research, Internship or Study Away	CNXT 31000	0-4
Electives for 2 nd major or minor ²		Varies
TOTAL REMAINING COURSEWORK TO COMPLETE BACHELOR'S DEGREE		60-65

Advising Notes:

¹ BCHM 36600 Biochemistry with lab is required for pre-medicine and pre-veterinary. BIOL 33800 Microbiology with lab is required for pre-veterinary, recommended for pre-medicine

²BIOL 131/133 Anatomy and Physiology with lab is recommended for pre-medicine

The number of credit hours vary depending on whether the student has completed the organic chemistry sequence.

Hiram Biology degree and full list of course options available here:

<https://catalog.hiram.edu/undergraduate/schools/science-technology/biology/biology-major/#programrequirements>

All students must complete a minimum of 120 semester credits, all major/minor course requirements, the Urgent Challenge Curriculum and the Hiram Connect requirement.

Sample Degree Map for Biology Transfer Pathway

Hiram College



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

THIRD YEAR

SEMESTER 5		SEMESTER 6	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
UCS 20201- Addressing Urgent Questions	4	BIOL 36500 Genetics w/lab	4
BIOL 23000- Molecular and Cellular Biology w/lab	4	BIOL XXXXX- Biology elective for track	3-4
BIOL 27800- Ecology w/lab	4	Elective, 2 nd major, minor course	3-4
BIOL XXXXX- Biology elective for track	3-4	Elective, 2 nd major, minor course	3-4
Total Semester Credit Hours	15-16	Total Semester Credit Hours	13-16

FOURTH YEAR

SEMESTER 7		SEMESTER 8	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
UCS 30301- Urgent Challenge Seminar	4	Elective, 2 nd major, minor course	3-4
BIOL XXXXX- Biology elective for track	3-4	Elective, 2 nd major, minor course	3-4
Elective, 2 nd major, minor course	3-4	Elective, 2 nd major, minor course	4
Elective or BIOL 48110 Senior seminar	2-4	Elective or BIOL 48110 Senior seminar	2-4
Total Semester Credit Hours	12-16	Total Semester Credit Hours	12-16