Ohio Consortium for Transfer Pathways to the Liberal Arts

Biology Transfer Pathway

for Ohio Community College students transferring to Capital University

November 2022

Capital University
Ask. Think. Lead.

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 Capital 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 arts degree in biology at an approved 4-year institution. Pages 3-5 show how these courses transfer to Capital 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 [1]	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[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 – *Continued from page 1* PRE-MAJOR/BEGINNING MAJOR		Minimum credit hours
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]	8-12
Electives:	General Electives as needed (May include FYE or Orientation course)[3]	4-5
OTHER REQUIREMENTS TOTAL:		8-18

Advising Notes:

[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.

[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.

[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.

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.

Associate Degree	Total Credit Hours
ASSOCIATE DEGREE TOTAL:	**60-65**

SPECIAL NOTES

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.

Students should check with individual institutions for their program admission requirements.

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.

Ohio Consortium for Transfer Pathways to the Liberal Arts

How Biology Pathway Courses Transfer to Capital University

Capital University
Ask. Think. Lead.

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 Capital University.

Students interested in transferring to Capital University should meet with an admission counselor regarding optimal course selection and admission requirements.

CAPITAL UNIVERSITY **COURSE EQUIVALENCIES FROM THE ASSOCIATE DEGREE PATHWAY**	**Course Number**	**Credit Hours**
GENERAL EDUCATION REQUIREMENTS/OHIO TRANSFER 36		
Any OT36 approved First Writing course	ENGL 100	3
Any OT36 approved Second Writing course	ENGL 111	3
Calculus I or Pre-Calculus	MATH 230	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)	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 171/173	4
General Chemistry II with lab	CHEM 172/174	4
Up to 7 additional hours of OT36 approved courses	OT36 Electives	7
PRE-MAJOR/BEGINNING MAJOR		
Biology I (OSC003)	BIOL 151/151L	4
Biology II (OSC004)	BIOL 152/152L	4
Calculus-based Physics I with lab (OSC016) or Algebra-based Physics I with lab (OSC014) or biology course	PHYS 220	4
OTHER RECOMMENDATIONS		
Full-Year Sequence of Organic Chemistry with lab	CHEM 231/233 CHEM 232/234	8
Electives	OT36 Electives	4-5
TOTAL HOURS FROM ASSOCIATE DEGREE:		60-65

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.

Ohio Consortium for Transfer Pathways to the Liberal Arts

Biology Transfer Pathway

Remaining Courses to Complete at Capital University

Capital University
Ask. Think. Lead.

This table outlines the remaining coursework required for the bachelor of science in biology degree at Capital University. A student transferring to Capital 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 Capital University general education requirements can be completed as part of the associate degree, through planning with a transfer advisor. Students interested in transferring to Capital University should meet with an admission counselor regarding optimal course selection and admission requirements.

REMAINING COURSEWORK TO COMPLETE THE BACHELOR'S DEGREE AT CAPITAL UNIVERSITY	Course Number	Credit Hours
INSTITUTIONAL DEGREE REQUIREMENTS		
Religious Foundations	UC 220	3
Global Systems	UC 370	3
MAJOR REQUIREMENTS		
Genetics	BIOL 270	4
Microbiology	BIOL 290	4
Research Methods	BIOL 315	3
Ecology	BIOL 360	4
Cell and Molecular Biology	BIOL 452	4
Sophomore Seminar	BIOL 200	1
Senior Seminar – two semesters	BIOL 400	2
General Physics II	PHYS 221	4
Biology Electives	Various	12
Two semesters of Modern Language	Various	8
OTHER BACHELOR DEGREE REQUIREMENTS		
Electives	Various	11
TOTAL REMAINING COURSEWORK TO COMPLETE BACHELOR'S DEGREE		60-65

Advising Notes:

Biology Electives cannot include BIOL 100, 150, 170, 231, 232, 280

Pre-medicine take Comparative Vertebrate Anatomy BIOL 324 and Vertebrate Physiology BIOL 334 as well as Biochemistry, Statistics, Writing in the Professions highly recommended.

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.

Sample Degree Map for Biology Transfer Pathway

Capital University

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

THIRD YEAR

SEMESTER 5

Course Name & Number	Credit Hours
Genetics - BIOL 270	4
Research Methods – BIOL 315	3
Sophomore Seminar – BIOL 200	1
Language	4
Religious Foundations - UC 220	3
Total Semester Credit Hours	**15**

SEMESTER 6

Course Name & Number	Credit Hours
Microbiology – BIOL 290	4
Biology Elective	4
General Physics II - PHYS 221	4
Language	4
Junior Seminar – BIOL 300	1
Total Semester Credit Hours	**17**

FOURTH YEAR

SEMESTER 7

Course Name & Number	Credit Hours
Ecology – BIOL 360	4
Senior Seminar – BIOL 400	1
Biology Elective	4
Global Systems – UC 370	3
Elective	4
Total Semester Credit Hours	**16**

SEMESTER 8

Course Name & Number	Credit Hours
Cell & Molecular Biology – BIOL 452	4
Biology Elective	4
Elective	4
Elective	4
Total Semester Credit Hours	**16**