



Biology Associate of Science

EFFECTIVE BEGINNING ACADEMIC YEAR 2023-24

LAST REVISED: March 17, 2025

Table with 3 columns: GENERAL EDUCATION REQUIREMENTS/OHIO TRANSFER 36, COURSE NUMBER, CREDIT HOURS. Rows include categories like ENGLISH COMPOSITION, MATHEMATICS, ARTS AND HUMANITIES, SOCIAL AND BEHAVIORAL SCIENCES, NATURAL SCIENCES, and ADDITIONAL CREDITS, ending with a TOTAL row showing 39 credit hours.

Advising Notes:

Where it indicates "Any Ohio Transfer 36 approved," students should work closely with their advisors.

(+) indicates that the courses chosen should be from two different areas within that category.

1 A prerequisite may be needed for a student to reach Calculus I (TMM005) or Life Science Calculus I (TMM024). The math requirement may vary by institution, and students planning to pursue a Bachelor of Arts in Biology may only need Pre-Calculus (TMM002). 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 Ohio Transfer 36.

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 in order to adequately prepare themselves for those types of tracks. Some pre-professional degrees include pre-medicine, pre-veterinary, pre-law, and pre-dentistry.



Transfer Credit Ohio

Ohio Guaranteed Transfer Pathways

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PRE-MAJOR/BEGINNING MAJOR		COURSE NUMBER	CREDIT HOURS
Course 1:	Biology I (OSC003)	BIO 121S	4
Course 2:	Biology II (OSC004)	BIO 122S	4
Course 3:	Genetics (OSC028) or Calculus-based Physics I with lab (OSC016) or Algebra-based Physics I with lab (OSC014) ¹	PHYS 241S, PHYS 121S, BIO 124S, BIO 125S, or BIO 126S	4-5
PRE-MAJOR/BEGINNING MAJOR TOTAL:			12-13
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.			

OTHER RECOMMENDATIONS		COURSE NUMBER	CREDIT HOURS
Courses 1 and 2:	Full-Year Sequence of Organic Chemistry with lab (OSC010) ¹ [Not required but highly recommended for pre-medicine]	Course Sharing ²	10
Electives:	General Electives as needed (May include FYE or Orientation course) ³	COM 121S	3
OTHER RECOMMENDATIONS TOTAL:			13
Advising Notes: ¹ 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. ² Please discuss your course sharing options with your academic advisor. ³ Certain institutions may require two semesters or more of foreign language for Bachelor of Arts and Bachelor of Science degrees. If so, world 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:	64-65

SPECIAL NOTES

Some bachelor-degree granting programs may be competitive and admission into the program is not guaranteed. Students should check with individual institutions for their program admission requirements.

Some bachelor-degree granting institutions require additional general education courses outside of the Ohio Transfer 36 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.

For more information, please contact:
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SAMPLE DEGREE MAP

FIRST YEAR

Table with 2 columns: COURSE NAME & NUMBER, CREDIT HOURS. Rows include BIO 121S Cells, Genetics, and Evolution (4), MTH 221S Calculus/Analytical Geometry I (5), CHM 121S General Chemistry I (5), ENG 121S Composition I (3), and Total SEMESTER 1 Credit Hours (17).

Table with 2 columns: COURSE NAME & NUMBER, CREDIT HOURS. Rows include ENG 122S Composition II (3), ART 123S Ancient Art History, ART 124S Art History: The Modern Era, MUS 120S Music Appreciation, or MUS 127S Music as a World Phenomenon (3), CHM 122S General Chemistry II (5), PSY 121S Introduction to Psychology or Ohio Transfer 36 Social and Behavioral Sciences (3), COM 121S Fundamentals of Communication (3), and Total SEMESTER 2 Credit Hours (17).

SECOND YEAR

Table with 2 columns: COURSE NAME & NUMBER, CREDIT HOURS. Rows include Organic Chemistry I (course sharing) (5), PHYS 241S Science & Engineering Physics I, PHYS 121S College Physics I, BIO 124S Human Biology, BIO 125S Anatomy & Physiology I, or BIO 126S Anatomy & Physiology II (4-5), HUM 121S Introduction to Humanities (3), SOC 121S Introduction to Sociology or Ohio Transfer 36 Social and Behavioral Sciences Elective (3), and Total SEMESTER 3 Credit Hours (15-16).

Table with 2 columns: COURSE NAME & NUMBER, CREDIT HOURS. Rows include Organic Chemistry II (course sharing) (5), BIO 122S Animals, Plants, Ecology (4), Ohio Transfer 36 Arts and Humanities Elective (3), Ohio Transfer 36 Social and Behavioral Sciences Elective (3), and Total SEMESTER 4 Credit Hours (15).