

Biology Associate of Science

Effective beginning Academic Year 2024-25 (Last revised August 14, 2024)

GENERAL EDUCATION REQUIREMENTS/OHIO TRANSFER 36		Course Number	Credit Hours
ENGLISH COMPOSITION AND ORAL COMMUNICATION:			3-5
Course 1:	Any Ohio Transfer 36 approved First Writing (TME001) course	ENG 1050 or ENG 1020	3-5
MATHEMATICS, STATISTICS, AND LOGIC:			5
Course 1:	Calculus I (TMM005) ¹ or Life Science Calculus I (TMM024) ¹	MTH 2510	5
ARTS AND HUMANITIES:			6
+ Course 1:	Any Ohio Transfer 36 approved Arts and Humanities course	AH Elective (see last page for list)	3
+ Course 2:	Any Ohio Transfer 36 approved Arts and Humanities course	AH Elective (see last page for list)	3
SOCIAL AND BEHAVIORAL SCIENCES:			6
+ Course 1:	Any Ohio Transfer 36 approved Social and Behavioral Sciences course [Introduction to Psychology (OSS015) recommended for pre-medicine]	PSY 1210*	3
+ Course 2:	Any Ohio Transfer 36 approved Social and Behavioral Sciences course [Introduction to Sociology (OSS021) recommended for pre-medicine]	SOC 2010*	3
NATURAL SCIENCES:			10
Course 1:	General Chemistry I with lab (OSC008)	CHM 1610 and CHM 1615	5
Course 2:	General Chemistry II with lab (OSC009)	CHM 1620 and CHM 1625	5
ADDITIONAL CREDITS: ²			9
Course 1:	Any Ohio Transfer 36 approved Second Writing (TME002) course	ENG 1060	3
Courses:	Up to 7 additional hours of Ohio Transfer 36 approved courses	SPE 2010	3
		BIO 2100	3
GENERAL EDUCATION/OHIO TRANSFER 36 TOTAL:			39-41
<p>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. (*) indicates that other course options are available. Please consult your academic advisor. ¹ A prerequisite, such as College Algebra (TMM001), 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.</p>			

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.

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PRE-MAJOR/BEGINNING MAJOR		Course Number	Credit Hours
Course 1:	Biology I (OSC003)	BIO 2010 and BIO 2015	5
Course 2:	Biology II (OSC004)	BIO 2020 and BIO 2025	5
Course 3:	Genetics (OSC028) or Calculus-based Physics I with lab (OSC016) or Algebra-based Physics I with lab (OSC014) ¹	PHY 1310 and PHY 1315	5
PRE-MAJOR/BEGINNING MAJOR TOTAL:			15

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 REQUIREMENTS		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]	Not offered	-
Electives:	General Electives as needed (May include FYE or Orientation course) ²	GEN 1000	1
		DLS 1090	3
		Elective	3
OTHER REQUIREMENTS TOTAL:			7

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 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:	61-63

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 additional information, please contact:

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SAMPLE DEGREE MAP

FIRST YEAR

SEMESTER 1		SEMESTER 2	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
GEN 1000 First Year Seminar	1	ENG 1060 College Composition II	3
ENG 1050 College Composition I or ENG 1020 Introductory College Composition	3-5	BIO 2020 Biology II	4
BIO 2010 Biology I	4	BIO 2025 Biology II Lab	1
BIO 2015 Biology I Lab	1	MTH 2510 Calculus and Analytical Geometry I	5
DLS 1090 Digital Literacy and Applications	3	PSY 1210 General Psychology	3
Ohio Transfer 36 Arts and Humanities Elective	3		
Total Semester 1 Credit Hours	15-17	Total Semester 2 Credit Hours	16

SECOND YEAR

SEMESTER 3		SEMESTER 4	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
SPE 2010 Effective Speaking	3	Elective	3
PHY 1310 General Physics I	4	BIO 2100 Nutrition	3
PHY 1315 General Physics I Lab	1	CHM 1620 General Chemistry II	4
CHM 1610 General Chemistry I	4	CHM 1615 General Chemistry II Lab	1
CHM 1615 General Chemistry I Lab	1	Ohio Transfer 36 Arts and Humanities Elective	3
SOC 2010 Fundamentals of Sociology	3		
Total Semester 3 Credit Hours	16	Total Semester 4 Credit Hours	14

OHIO TRANSFER 36 AND GENERAL EDUCATION ELECTIVES

Please work closely with your advisor when selecting courses.

ARTS AND HUMANITIES		
Art History: Prehistory to Gothic	ART 1010	3
Art History: Renaissance to 20th Century	ART 1030	3
Art Appreciation	ART 1050	3
Introduction to Literature	ENG 1850	3
Non-Western Literature	ENG 2630	3
British Literature I	ENG 2640	3
British Literature II	ENG 2650	3
American Literature	ENG 2660	3
American Literature I	ENG 2670	3
American Literature II	ENG 2680	3
Critical Thinking	HUM 1010	3
History of Rock	HUM 1130	3
Music Appreciation	MUS 1010	3
Introduction to Ethics	PHL 1010	3

SOCIAL AND BEHAVIORAL SCIENCES		
World Regional Geography	GEO 1110	3
Western Civilization (until 1700)	HIS 1010	3
Western Civilization (1700-present)	HIS 1020	3
American History I	HIS 1050	3
American History II	HIS 1060	3
American Government	PLS 1000	3
State and Local Government	PLS 1100	3
General Psychology	PSY 1210	3
Abnormal Psychology	PSY 2210	3
Adolescent Psychology	PSY 2410	3
Fundamentals of Sociology	SOC 2010	3
Cultural Awareness	SOC 2120	3
Cultural Anthropology	SOC 2500	3