

ASSOCIATE OF SCIENCE WITH A CONCENTRATION IN BIOLOGY

Code	Title	Credit Hours
GEN-1070	First Year Success Seminar	1
Select one of the following:		3-7
MATH-1410	Elementary Probability and Statistics I ¹	
MATH-1580	Precalculus ¹	
MATH-1530 & MATH-1540	College Algebra and Trigonometry ¹	
Select one of the following:		4
BIO-1500	Principles of Biology I	
BIO-150H	Honors Principles of Biology I	
Select one of the following:		5
CHEM-1300 & CHEM-130L	General Chemistry I and General Chemistry Laboratory I ²	
CHEM-130H	Honors General Chemistry I	
BIO-1510	Principles of Biology II	4
Select one of the following:		3
ENG-1010	College Composition I	
ENG-101H	Honors College Composition I	
Select one of the following:		5
MATH-1610	Calculus I	
MATH-161H	Honors Calculus I	
Select one of the following:		
CHEM-1310 & CHEM-131L	General Chemistry II and General Chemistry Laboratory II	
CHEM-131H	Honors General Chemistry II	
CHEM-2300	Organic Chemistry I	5
Select one of the following:		3
COMM-1010	Fundamentals of Speech Communication	
COMM-101H	Honors Speech Communication	
Select one of the following:		3
ENG-1020	College Composition II	
ENG-102H	Honors College Composition II	
Select one of the following:		3
PSY-1010	General Psychology	
PSY-101H	Honors General Psychology	
Select one of the following Arts and Humanities/Civic Responsibility courses:		
HUM-1020	The Individual in Society	
HUM-102H	Honors Individual in Society	
HUM-1030	The Individual in Cosmos	
PHIL-1000	Critical Thinking	
PHIL-2050	Bioethics	
Select two of the following:		7-8
DEGR-XXXX	Biology Elective (see below list)	
CHEM-2310	Organic Chemistry II ³	
PHYS-1210	College Physics I ⁴	

PHYS-2310	General Physics I ⁴	
DEGR-XXXX	Elective (See below list)	
Select one of the following:		3
SOC-1010	Introductory Sociology	
SOC-101H	Honors Introductory Sociology	
Ohio Transfer 36 Arts and Humanities Elective ⁵		3

- ¹ Students who place into MATH-1610 Calculus I should take MATH-1410 Elementary Probability and Statistics I or MATH-1620 Calculus II to meet this requirement. Students who place lower than MATH-1610 Calculus I should take either MATH-1580 Precalculus or MATH-1530 College Algebra and MATH-1540 Trigonometry, based on Math Placement Score, as a prerequisite to MATH-1610 Calculus I.
- ² Students who do not achieve sufficient score on Chemistry Placement Test will need to take CHEM-1010 as a prerequisite to CHEM-1300. CHEM-1010 can be applied towards elective requirements if students need to take it as a prerequisite to CHEM-1300.
- ³ Students pursuing a Biology degree as Pre-medicine, Pre-dentistry, Pre-veterinary medicine, or a Clinical Laboratory track are required to take CHEM-2310 Organic Chemistry II
- ⁴ The Physics requirement for four-year Biology programs varies from institution to institution. Check with your planned transfer institution and program to determine whether or not to select a Physics course towards elective requirements.
- ⁵ Must be taken from a different discipline than course chosen to fulfill Arts and Humanities/Civic Responsibility Requirement.

Recommended Electives

Students can select from a combination of courses to fulfill the 10 elective credits. For example, these could be made up of two 5 credit courses, one 5 credit course and two 3 credit courses, two 3 credit courses and a 4 credit course, two 4 credit courses and a 3 credit course, etc. The below courses are recommended to fulfill elective credits. You should select elective courses based on your planned program of study at the four-year institution.

Code	Title	Credit Hours
Biology Electives		
BIO-2060	Principles of Genetics	3
BIO-2150	Environmental Science	3
BIO-2500	Microbiology	4
Pre-Medicine, Pre-Dentistry, Pre-Veterinary Medicine, or Medical Laboratory Track		
CHEM-2310	Organic Chemistry II	5
Education/Integrated Science (Seeking 7-12 Teaching Licensure)		
BIO-2150	Environmental Science	3
ESCI-1410 & ESCI-141L	Physical Geology and Lab in Physical Geology	4
or ESCI-141H	Honors Physical Geology	
EDUC-1011	Introduction to Education	3
EDUC-1411	Individuals with Exceptionalities	3
PSY-2110	Educational Psychology [*]	3

MATH-1140, MATH-1141, MATH-1200, MATH-1270, and MATH-1280 can no longer count towards fulfilling the college-level mathematics requirement. These courses were re-classified as developmental

mathematics by the state of Ohio in 2016. Tri-C established a 5-year transitioning window for students who had completed these courses prior to 2016 to apply them towards meeting graduation requirements, which expired in Summer 2021. It is highly recommended to see a counselor to determine the appropriate math required for your current major.

Related Degrees and Certificates

- Ohio Transfer 36, Certificate of Proficiency
- Associate of Science with a Concentration in Biology