



Cuyahoga Community College & West Virginia University

Associate of Science A.S. leading to
Bachelor of Science in Biology B.S.

Pre-Med Track

Suggested Plan of Study



Cuyahoga Community College	Hours	WVU Equivalents	Hours
Year One, 1 st Semester			
ENG 1010/101H – College Composition I/Honors	3	ENGL 101 – Intro to Composition and Rhetoric	3
CHEM 1300 & CHEM 130L, or CHEM 130H – General Chemistry I and Lab	5	CHEM 115 & CHEM 115L + CHEM 1TC – Fundamentals of Chemistry I & Lab ^(Required)	5
MATH 1530 – College Algebra ^(Elective)	4	MATH 126 – College Algebra + MATH 1TC	4
BIO 1500 – Biology Principles I	4	BIOL 115 & BIOL 115L – Principles of Biology & Principles of Biology Lab ^(Required)	4
TOTAL	16		16
Year One, 2 nd Semester			
ENG 1020/102H – College Composition II/Honors	3	ENGL 102 – Composition, Rhetoric, and Research	3
CHEM 1310 & CHEM 131L, or CHEM 131H – General Chemistry II and Lab	5	CHEM 116 & CHEM 116L + CHEM 1TC – Fundamentals of Chemistry II & Lab ^(Required)	5
MATH 1610/161H – Calculus I	5	MATH 155 + MATH 1TC – Calculus I ^(Required)	5
BIO 1510 – Biology Principles II	4	BIOL 117 & BIOL 117L – Introductory Physiology & Introductory Physiology Lab ^(Required)	4
TOTAL	17		17
Year Two, 1 st Semester			
PHYS 1210 – College Physics I or PHYS 2310 – General Physics I	4-5	PHYS 101 & PHYS 101L – Introductory Physics & Lab or PHYS 111 & PHYS 111L + PHYS 2TC – General Physics I ^(Required)	4-5
CHEM 2300 – Organic Chemistry I	5	CHEM 233 & CHEM 233L + CHEM 2TC – Organic Chemistry I & Lab ^(Required)	5
OT36 Arts & Humanities [^]	3	Arts & Humanities Elective	3
PSY 1010/101H – General Psychology/Honors	3	PSYC 101 – Introduction to Psychology ^(Required)	3
TOTAL	15-16		15-16
Year Two, 2 nd Semester			
CHEM 2310 – Organic Chemistry II	5	CHEM 234 & CHEM 234L + CHEM 2TC – Organic Chemistry II & Lab ^(Required)	5
SOC 1010/101H – Introductory Sociology/Honors	3	SOC 101 – Introduction to Sociology ^(Required)	3
OT36 Arts & Humanities [^]	3	Arts & Humanities Elective	3
Elective	3	Elective	3
TOTAL	14		14
West Virginia University			
Year Three, 1 st Semester		Year Three, 2 nd Semester	
PHYS 102 & PHYS 102L: Intro Physics 2 & Lab or PHYS 112 & PHYS 112L: General Physics 2 & Lab	4	BIOL 221 – Ecology and Evolution	3
BIOL 219 & BIOL 222L – Cellular and Molecular Biology and Intermediate Inquiry Lab	5	BIOL 223 – Quantitative Biology	3
PHIL 331 – Health Care Ethics	3	BIOL 327 – Professional Development	1
ARSC 360 ^(Edge Compact 1-4)	3	Area of Emphasis Course ⁽¹⁾	3
General Elective	3	Upper-Division Biology Elective ⁽¹⁾	3
TOTAL	17	TOTAL	13
Year Four, 1 st Semester		Year Four, 2 nd Semester	
BIOL 387 – Experimental Design & Comm 1	1	BIOL 487 – Experimental Design & Comm 2	1
BIOL 323L – Advanced Inquiry Lab ^(EDG 1)	2	BIOL 320 or BIOL 321 or BIOL 486 ^(Capstone/EDG 6)	3
Area of Emphasis Course ⁽²⁾	3	Area of Emphasis Course ⁽⁴⁾	3
Area of Emphasis Course ⁽³⁾	3	Area of Emphasis Course ⁽⁵⁾	3
Upper-Division Biology Elective ⁽²⁾	3	General Elective	4
ARSC 380 ^(EDG 5)	1		
General Elective	3		
TOTAL	16	TOTAL	14

Course sequence may change based on the individual needs of the student and schedule type required.

New college students may be required during their first semester to participate in GEN 1070, First Year Success Seminar, a one credit hour course. See a Tri-C Counselor for details.

This represents an example of suggested courses to complete the Associate of Science to continue for a bachelor's degree, which must total at least 60 semester credits and includes 36 Ohio Transfer 36 (OT36) credits which approved Tri-C general education requirements. OT36 details can be found at <https://www.ohiohighered.org/Ohio-Transfer-36>. Students should work closely with advisors at both institutions to discuss options.

^ Courses must be from two different disciplines.

Students must have a C- or higher in BIO 1500, BIO 1510, and CHEM 1300 & CHEM 130L/H (BIOL 115,/L BIOL 117/L, and CHEM 115/L) to be admitted directly into the Biology program upon transferring to West Virginia University.

Students who transfer into the Biology major may use BIOL 115L in place of BIOL 119L and BIOL 117L in place of BIOL 120L.

Students can select from two different Areas of Emphasis (AoE) once at WVU:

- Human Health – 15 Hours
- Global Health – 16 Hours

Students who transfer from another institution with 60 or more credits or who transfer from another WVU college with 60 or more WVU credits are eligible to take ARSC 360 instead of the 4 courses that comprise Eberly Edge 1-4. Students can request a permit by filling out the Eberly Edge Transfer Permit Request form. (This form will be available in the fall of 2026 for registration for spring 2027).

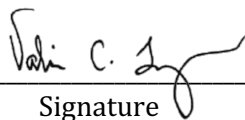
Students transferring to West Virginia University with an Associate of Arts or Associate of Science degree will have satisfied the General Education Foundation requirements at WVU.

Students who have questions regarding this articulation agreement or the transferability of coursework may contact the WVU Office of the University Registrar. All other questions should be directed at the WVU Office of Admissions (304-293-2121).

The above transfer articulation of credit between West Virginia University and Cuyahoga Community College, is approved by the Dean, or the Dean's designee, and effective the date of the signature.

Valérie Lastinger

Print Name



Signature

07/16/2026

Date

Valerie Lastinger Ph.D. Associate Dean for WVU's Eberly College of Arts & Sciences