

Westmoreland County Community College & West Virginia University

Associate of Science in Biology A.S. leading to

Bachelor of Science in Environmental, Soil and Water Sciences B.S.

Suggested Plan of Study



Westmoreland County Community College	Hours	WVU Equivalents	Hours
Year One, 1 st Semester			
PDV 171: Career Pathway Exploration	3	WVUE 191: First Year Seminar	3
ENG 161: College Writing	3	ENGL 101: Composition and Rhetoric	3
MTH 158: Pre-Cal Math	3	MATH 128: Plane Trigonometry	3
BIO 155: General Biology I	4	BIOL 101: General Biology I & BIOL 101L: General Biology Lab	4
CHM 155: General Chemistry I	4	CHEM 115 & CHEM 115L: Fundamentals of Chemistry I & Lab I	4
TOTAL	17		17
Year One, 2 nd Semester			
MTH 172: Calculus I	4	MATH 155: Calculus I	4
BIO 156: General Biology II	4	BIO 102 General Biology II & BIOL 102L: General Biology Lab II	4
CHM 156: General Chemistry II	4	CHEM 116 & CHEM 116L: Fundamentals of Chemistry II & Lab II	4
ENG 164: Advanced Composition	3	ENGL 102: Composition and Rhetoric	3
TOTAL	15		15
Year Two, 1 st Semester			
CHM 250: Organic Chem I	4	CHEM 233 & CHEM 233L: (Restricted Elective) Organic Chemistry I & Lab I	4
BIO 120: Environmental Issues	3	ESWS 155: Elements-Environmental Protection	3
SPC 155: Effective Speech	3	MDS 270: Effective Public Speaking	3
PSY 160: Introduction to Psychology or SOC 155: Introduction to Sociology	3	PSYC 101: Introduction to Psychology or SOC 101: Introduction to Sociology	3
TOTAL	13		13
Year Two, 2 nd Semester			
CHM 251: Organic Chem II	4	CHEM 234 & CHEM 234L: (Restricted Elective) Organic Chemistry II & Lab II	4
BIO 145: General Botany	4	PLSC 206: Principles of Plant Science & PLSC 206L: Principles of Plant Science Lab	4
STM 296: STEM Seminar	1	PHYS 1TC	1
Humanities Elective	3	Elective	3
ECN 255: Macroeconomics or ECN 256: Microeconomics	3	ECON 202: Principles of Macroeconomics or ECON 201 Principles of Microeconomics	3
TOTAL	15		15

West Virginia University			
Year Three, 1 st Semester		Year Three, 2 nd Semester	
Restricted Elective (1)	4	WRIT 305: Technical Writing	3
STATS 211: Elementary Statistical Inference	3	GEOL 101: Planet Earth & GEOL 101L: Planet Earth Laboratory	4
AEM 341: General Microbiology & AEM 341L: General Microbiology Lab	4	WMAN 150: Principles of Conservation Ecology	3
ESWS 202: Principles of Soil Science & ESWS 202L: Principles of Soil Science Lab	4	Area of Emphasis (1)	4
		General Elective	2
TOTAL	15	TOTAL	16
Year Four, 1 st Semester		Year Four, 2 nd Semester	
Area of Emphasis (2)	3	ESWS 425 & ESWS 425L: Environmental Soil Management and Environmental Soil Management Laboratory or ESWS 460 & ESWS 460L: Environmental Impact Assessment and Environmental Impact Assessment Laboratory <small>(Capstone)</small>	4
Area of Emphasis (3)	3	Area of Emphasis (5)	4
Restricted Elective (2)	3	Restricted Elective (4)	3
Restricted Elective (3)	3	General Elective	3
Area of Emphasis (4)	3		
TOTAL	15	TOTAL	14

Students can select from three Areas of Emphasis ranging between 12-14 credit hours:

- Environmental Assessment and Reclamation (12 hours)
- Environmental Microbiology (14 hours)
- Soil and Water Sciences (14 hours)

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 to the WVU Office of Admissions.

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

Kimberly Barnes		2/14/2025
Print Name	Signature	Date
Kimberly Barnes Ph.D. Associate Dean for WVU's Davis College of Agriculture, Natural Resources and Design		