



# Westmoreland County Community College & West Virginia University

Associate of Science in Mathematics A.S. leading to  
Bachelor of Science in Mathematics B.S.  
Suggested Plan of Study



Westmoreland County Community College	Hours	WVU Equivalents	Hours
<b>Year One, 1<sup>st</sup> Semester</b>			
PDV 171: Career Pathway Exploration	3	WVUE 191: First Year Seminar	3
MTH 172: Calculus I	4	MATH 155: Calculus I	4
PHY 255: Engineering Physics I	5	*PHYS 111 & PHYS 111L + PHYS 1TC: General Physics I & Lab I	5
CPT 160: Introduction to Programming	3	ENGR 1TC: Introduction to Programming	3
<b>TOTAL</b>	15		15
<b>Year One, 2<sup>nd</sup> Semester</b>			
PHY 256: Engineering Physics II (Lab Science Elective)	5	*PHYS 112 & PHYS 112L + PHYS 1TC: General Physics II & Lab II	5
CPT 180: C++ Programming	3	CS 110: Introduction to Computer Science	3
ENG 161: College Writing	3	ENGL 101: Composition and Rhetoric	3
MTH 173: Calculus II	4	MATH 156: Calculus II	4
<b>TOTAL</b>	15		15
<b>Year Two, 1<sup>st</sup> Semester</b>			
ECN 255: Macroeconomic (SS Elective)	3	ECON 202: Principles of Macroeconomics	3
SPC 155: Effective Speech	3	MDS 270: Effective Public Speaking	3
MTH 271: Analytical Geometry and Calculus III	4	MATH 251: Multivariable Calculus	4
PHL 155: Intro to Logic (Humanities Elective)	3	PHIL 260: Intro to Symbolic Logic	3
CHM 155: General Chemistry I (General Elective)	4	CHEM 115 & CHEM 115L: Fundamentals of Chemistry I & Lab I	4
<b>TOTAL</b>	17		17
<b>Year Two, 2<sup>nd</sup> Semester</b>			
MTH 277: Discrete Mathematics	3	MATH 378: Discrete Mathematics	3
MTH 272: Differential Equations or *MTH 275: Linear Algebra (Recommended)	3	MATH 2TC: Differential Equations or *MATH 343: Introduction to Linear Algebra (Required)	3
Humanities Elective	3	Elective	3
STM 296: STEM Seminar	1	PHYS 1TC: STEM Seminar	1
ECN 256: Microeconomics (SS Elective)	3	ECON 201: Principles of Microeconomics	3
CHM 156: General Chemistry II (General Elective)	4	CHEM 116 & CHEM 116L: Fundamentals of Chemistry II & Lab II	4
<b>TOTAL</b>	17		17
*MATH 275: Linear Algebra (WVU MATH 343) is recommended as the best option for students transferring to the MATH BS program.			

## West Virginia University

Year Three, 1 <sup>st</sup> Semester		Year Three, 2 <sup>nd</sup> Semester	
STAT 215: Introduction to Probability and Statistics	3	MATH 495 <small>(1st of 4 hours)</small>	1
MATH 261: Elementary Differential Equations	4	AoE Math Course (2)	3
MATH 303: Introduction to the Concepts of Mathematics	3	MATH 322: Introduction to Programming and Computational Mathematics or MATH 420: Numerical Analysis 1	3
AoE Math Course (1)	3	Elective or Minor Course (1)	3
General Elective	3	Elective or Minor Course (2)	4
<b>TOTAL</b>	<b>16</b>	<b>TOTAL</b>	<b>14</b>
Year Four, 1 <sup>st</sup> Semester		Year Four, 2 <sup>nd</sup> Semester	
MATH 495 <small>(2nd &amp; 3rd of 4 hours)</small>	2	MATH 495 <small>(4th of 4 hours)</small>	1
AoE Math Course (3)	3	AoE Math Course (5)	3
AoE Math Course (4)	3	Elective or Minor Course (4)	3
Elective or Minor Course (3)	3	Elective or Minor Course (5)	3
General Elective	4	General Elective	4
<b>TOTAL</b>	<b>15</b>	<b>TOTAL</b>	<b>14</b>

Students must have a C- or better in MATH 121 (WVU's MATH 155) to be admitted directly into the Mathematics program upon transferring to West Virginia University.

Students are encouraged to explore other MATH course offerings in lieu of Elective hours at WVU. 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.

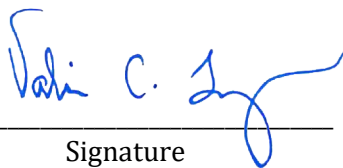
Students who have questions regarding this articulation agreement or the transferability of coursework may contact the WVU Office of the University Registrar. All other questions should be directed to the WVU Office of Admissions.

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.

Valérie Lastinger

Print Name

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



Signature

8/15/2023

Date