

Westmoreland County Community College & West Virginia University



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



Westmoreland County Community College	Hours	WVU Equivalents	Hours
Year One, 1st Semester			
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
TOTAL	15		15
Year One, 2nd Semester			
CHM 155: General Chemistry I (Lab Science Elective)	4	CHEM 115 & CHEM 115L: Fundamentals of Chemistry I & Lab I	4
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
TOTAL	14		14
Year Two, 1st Semester			
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 156: General Chemistry II (General Elective)	4	CHEM 116 & CHEM 116L: Fundamentals of Chemistry II & Lab II	4
TOTAL	17		17
Year Two, 2nd Semester			
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
General Elective	3	General Elective	3
TOTAL	16		16
*MATH 275: Linear Algebra (WVU MATH 343) is recommended as the best option for students transferring to the MATH BA program.			

West Virginia University			
Year Three, 1 st Semester		Year Three, 2 nd Semester	
Foreign Language 101	3	Foreign Language 102	3
STAT 215: Introduction to Probability and Statistics or STAT 461: Theory of Probability	3	MATH 341 or MATH 381 or MATH 451 or MATH 456 (Advanced MATH Course 1)	3
MATH 322: Introduction to Programming and Computational Mathematics	3	MATH 495 (1 st of 4 hours)	1
MATH 303: Introduction to the Concepts of Mathematics	3	Upper Division MATH Elective (1)	3
Elective or Minor Course (1)	3	Elective or Minor Course (2)	3
		General Elective	2
TOTAL	15	TOTAL	15
Year Four, 1 st Semester		Year Four, 2 nd Semester	
Foreign Language 203	3	Foreign Language 204	3
MATH 495 (2 nd & 3 rd of 4 hours)	2	MATH 495 (4 th of 4 hours)	1
MATH 341 or MATH 381 or MATH 451 or MATH 456 (Advanced MATH Course 2)	3	Upper Division MATH Elective (2)	3
Elective or Minor Course (3)	3	Elective or Minor Course (4)	3
General Elective	4	Elective or Minor Course (5)	3
		General Elective	2
TOTAL	15	TOTAL	15

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.

Student will need to select two courses from the following Advanced Courses In Mathematics options:

- MATH 341: Intro to Algebraic Structures
- MATH 381: Intro to Analysis and Topology
- MATH 451: Intro to Real Analysis
- MATH 456: Complex Variable

Students completing degrees from the WVU Eberly College of Arts and Sciences are encouraged to work with their advisors to integrate completion of an academic minor or minors into their programs of study. WVU offers over 100 minors that complement major fields of study, build on students' unique interests, expand perspectives, and broaden skills. See <http://catalog.wvu.edu/undergraduate/minors/#minorsofferedtext> for a list of available minors. Westmoreland Community College students may begin completion of certain minors at WCCC by utilizing elective hours to take courses equivalent to the minor's introductory requirements 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