

Westmoreland County Community College & West Virginia University

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



Westmoreland County Community College	Hours	WVU Equivalents	Hours
Year One, 1 st Semester			
PDV 171: First Year Seminar	3	WVUE 191: First Year Seminar	3
PHY 255: Engineering Physics I	5	PHYS 111 & PHYS 111L + PHYS 1TC: General Physics I and Lab I (Required)	5
CHM 150: General Chemistry I & CHM 151: General Chemistry I Lab	4	CHEM 115 & CHEM 115L: Fundamentals of Chemistry & Lab I (Required)	4
MTH 172: Calculus I	4	MATH 155: Calculus I (Required)	4
TOTAL	16		16
Year One, 2 nd Semester			
ENG 161: College Writing	3	ENGL 101: Composition and Rhetoric	3
MTH 173: Calculus II	4	MATH 156: Calculus II (Required)	4
PHYS 256: Engineering Physics II	5	PHYS 112 & PHYS 112L + PHYS 1TC: General Physics II & Lab II (Required)	5
CHM 160: General Chemistry II & CHM 161: General Chemistry II Lab	4	CHEM 116 & CHEM 116L: Fundamentals of Chemistry & Lab II (Required)	4
TOTAL	16		16
Year Two, 1 st Semester			
ENG 164: Advanced Composition	3	ENGL 102: Composition and Rhetoric	3
PHY 259: Thermodynamics and Fluid Mechanics	3	PHYS 2TC	3
SPC 155: Effective Speech	3	COMM 270 & COMM 270S: Effective Public Speaking and Studio	3
MTH 271: Calculus III	4	MATH 251: Multivariable Calculus (Required)	4
TOTAL	13		13
Year Two, 2 nd Semester			
SOC 155: Introduction to Sociology	3	SOC 101: Introduction to Sociology	3
PHY 258: Modern Physics	3	PHYS 314: Intro to Modern Physics (Required)	3
STM 296: STEM Seminar	1	PHYS 1TC	1
MTH 272: Differential Equations	3	MATH 2TC	3
PSY 160: Introduction to Psychology	3	PYSC 101: Introduction to Psychology	3
Humanities Elective	3	Humanities Elective	3
TOTAL	16		16

West Virginia University			
Year Three, 1 st Semester		Year Three, 2 nd Semester	
MATH 261: Elementary Differential Equations	4	PHYS 333: Electricity and Magnetism I	3
PHYS 312: Oscillations and Thermal Physics	3	Area of Emphasis	3
PHYS 331: Theoretical Mechanics I	3	Area of Emphasis	3
EDG 1: Data and Society	3	EDG 3: Ethics and Civil Responsibility	3
EDG 2: Effective and Civil Communication	2	EDG 4: Global and Regional Perspectives	3
TOTAL	15	TOTAL	15
Year Four, 1 st Semester		Year Four, 2 nd Semester	
PHYS 451: Introductory Quantum Mechanics	3	PHYS 496: Senior Thesis	3
PHYS 341L: Advanced Laboratory ^(EDG 6)	3	Area of Emphasis	3
Area of Emphasis	4	General Elective	3
ARSC 380 ^(EDG 5)	3	General Elective	3
General Elective	2	General Elective	3
TOTAL	15	TOTAL	15

Students must have a GPA of 2.2 or better in all MTH and PHY courses to be admitted into the Physics program upon transferring to West Virginia University.

Area of Emphasis: Students completing a Bachelor of Science in Physics must complete an Area of Emphasis selected from Computational Physics, Medical Physics, Physics Teaching, Professional Preparation, or Space Physics. The Professional Preparation Area of Emphasis is the typical plan of study for a B.S. degree in physics. Hours will vary based on Area of Emphasis.

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.

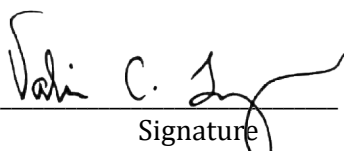
Students who have questions regarding this articulation agreement or the transferability of coursework may contact the WVU Office of the University Registrar. All other questions should be directed at the WVU Office of Admissions.

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

9/18/25

Date