

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 & Lab II	5
CHM 150: General Chemistry I & CHM 151: General Chemistry I Lab	4	CHEM 115 & CHEM 115L: Fundamentals of Chemistry & Lab I	4
MTH 172: Calculus I	4	MATH 155: Calculus I	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	4
PHYS 256: Engineering Physics II	5	PHYS 112 & PHYS 112L + PHYS 1TC: General Physics II & Lab II	5
CHM 160: General Chemistry II & CHM 161: General Chemistry II Lab	4	CHEM 116 & CHEM 116L: Fundamentals of Chemistry & Lab II	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	MDS 270: Effective Public Speaking	3
MTH 271: Calculus III	4	MATH 251: Multivariable Calculus	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	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 or 300/400-Level MATH	4	PHYS 332: Theoretical Mechanics 2 or General Elective	3
PHYS 331: Theoretical Mechanics I	3	PHYS 333: Electricity and Magnetism I	3
PHYS 312: Oscillations and Thermal Physics	3	MATH/STATS/CS Course ^(300/400 level)	3
General Elective	3	ASTR or PHYS Course ^(300/400 level)	3
General Elective	2	General Elective	3
TOTAL	15	TOTAL	15
Year Four, 1 st Semester		Year Four, 2 nd Semester	
PHYS 451: Introductory Quantum Mechanics	3	PHYS 342L: Advanced Physics Lab II	2
PHYS 341L: Advanced Physics Lab I (2)	2	PHYS 461: Thermodynamics and Statistical Mechanics	3
PHYS 334: Electricity and Magnetism or General Elective	3	PHYS 496: Senior Thesis	3
ASTR or PHYS Course ^(300/400 level/AoE 3)	3	ASTR or PHYS Course ^(300/400 level)	3
General Elective	4	General Elective	4
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 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.

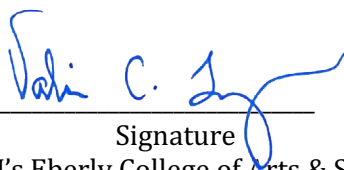
Students who have questions regarding this articulation agreement or the transferability of coursework may contact the WVU Office of the University Registrar. All other questions should be directed to the WVU Office of Admissions.

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

8/20/24

Date