

Frederick Community College & West Virginia University

Mathematics Area of Concentration within STEM A.S. (Transfer) leading to

Bachelor of Science in Physics B.S.

Suggested Plan of Study



Frederick Community College	Hours	WVU Equivalents	Hours
Year One, 1 st Semester			
ENGL 101	3	ENGL 101	3
MATH 185	4	MATH 155 (B.S. Area 1-1)	4
Humanities Elective (Gen Ed)	3	Elective	3
Physical Education, Health, or Nutrition Requirement	1	Elective	1
CMIS 106	3	CS 1TC	3
TOTAL	14		14
Year One, 2 nd Semester			
MATH 195	4	MATH 156 (B.S. Area 1-1)	4
PHYS 151 (Biological & Physical Sciences Elective w/ lab Gen Ed)	4	PHYS 111 & PHYS 111L (B.S. Area 2-1)	4
ANTH 101 or PSYC 101 or SOCY 101 (or another Social & Behavioral Sciences Elective Gen Ed)	3	ANTH 105 or PSYC 101 or SOC 101	3
MATH 220	1	MATH 2TC	1
MATH 170 or CMIS 201	3-4	MATH 1TC or CS 1TC	3-4
TOTAL	15-16		15-16
Year Two, 1 st Semester			
MATH 285	4	MATH 251	4
ENGL 102 (Communication Elective Gen Ed)	3	ENGL 102 (Required)	3
MATH 265	4	MATH 343	4
PHYS 252 (Biological & Physical Sciences Elective Gen Ed)	4	PHYS 112 & PHYS 112L (B.S. Area 2-2)	4
Elective (consultation with an advisor)	4	CHEM 115 & CHEM 115L (B.S. Area 3-1/Required)	4
TOTAL	19		19
Year Two, 2 nd Semester			
MATH 275	3	MATH 261	3
CHEM 102 (consultation with an advisor)	4	CHEM 116 & CHEM 116L (B.S. Area 3-2/Required)	4
Social & Behavioral Sciences Elective (Gen Ed)	3	Elective	3
Arts Elective (Gen Ed)	3	Elective	3
TOTAL	13		13

West Virginia University			
Year Three, 1 st Semester		Year Three, 2 nd Semester	
PHYS 312	3	PHYS 314	4
PHYS 331	3	PHYS 333	3
General Elective	3	PHYS 332 or PHYS Elective ^(AoE 1)	3
General Elective	3	General Elective	3
General Elective	3	General Elective	2
TOTAL	15	TOTAL	15
Year Four, 1 st Semester		Year Four, 2 nd Semester	
PHYS 341L ^(AoE 2)	2	PHYS 342L ^(AoE 4)	2
PHYS 334 or PHYS/ASTR Elective ^(AoE 3)	3	PHYS 461 ^(AoE 5)	3
PHYS 451	3	PHYS 496	3
General Elective	4	General Elective	4
General Elective	3	General Elective	3
TOTAL	15	TOTAL	15

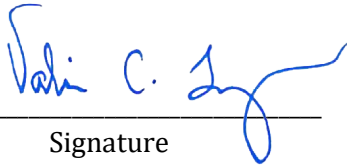
Students must have a 2.2 GPA in their MATH and PHYS courses to be directly admitted into the Physics program upon transferring to West Virginia University.

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. Frederick Community College students may begin completion of certain minors at WVU by taking 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 about admission into their intended program, GEF requirements, or any other issue relating to academics at West Virginia University should contact the Office of Undergraduate Education at WVU.

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

Valérie Lastinger		11/1/2023
Print Name	Signature	Date

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