

WVU CURRICULUM SUMMARY SHEET

Date for Reapproval:

Institution Name: West Virginia University
Specialization Name: Physics 9-Adult
Program: WVUteach – Non-physics major
Major: **Area of Emphasis Code:**
Form Completed by: Jeffrey S. Carver
EPPAC Approval
Date: 12/20/16

COURSE NUMBER	COURSE TITLE	CREDIT HOURS
	To be taken in conjunction with a B.A. or B.S. Degree in any STEM degree area (STEM is defined as Science Technology Engineering and Mathematics and includes but is not limited to any natural science, math, engineering, computer science, and Agricultural Sciences including Wildlife and Fisheries Resources, Animal and Nutritional Sciences and Environmental and Energy Resources Management)	
	CORE PHYSICS CLASSES (12 hours)	
PHYS 111	General Physics I	4
PHYS 112	General Physics II	4
PHYS 314	Introductory Modern Physics	4
	PHYSICS ELECTIVES (Choose at least 9 hours from the list below or others in consult with your advisor)	
PHYS 211*	Introduction to Mathematical Physics	3
PHYS 321	Optics	3
PHYS 331	Theoretical Mechanics I	3
PHYS 333	Electricity and Magnetism I	3
PHYS 461	Thermodynamics and Statistical Mechanics	3
PHYS 490	Teaching Practicum	1-3
	WVUteach REQUIRED COURSES (27 hours)	
ARSC 120	Inquiry Approaches to Teaching (5 hour placement)	1
ARSC 220	Inquiry Based Lesson Design (5 hour placement)	1
UTCH 221	Knowing and Learning in Math and Science	3
UTCH 222	Classroom Interactions in Math and Science (12 hour placement)	3
PHYS 376	Research Methods	3
MATH 318	Perspectives on Mathematics and Science	3
UTCH 420	Project Based Instruction in Mathematics and Science (13 hour placement)	3
UTCH 430	Apprentice Teaching (90 hours + 12 weeks full time Student Teaching) Seminar is included in this class that will meet face to face.	10
	OTHER REQUIRED COURSES (24 hours) NOTE: Major requirements may dictate which of the following courses are taken. Please consult with advisor.	
MATH 155	Calculus 1 (or equivalent such as MATH 153 & MATH 154)	4
MATH 156	Calculus 2	4
	Additional Mathematics courses may be necessary to meet prerequisites for some physics electives	

Verified by: Porter Date: 11/9/16
 Printed: 7/19/17 12:08 PM

CHEM 115	Fundamentals of Chemistry I	4
CHEM 116	Fundamentals of Chemistry II	4
BIOL 101 AND BIOL 103 OR BIOL 115	General Biology 1 AND General Biology 1 lab Or Principles of Biology	4
GEOL 101 And GEOL 102 OR GEOL 103 And GEOL 104	Planet Earth And Planet Earth Lab OR Earth Through Time And Earth Through Time Lab	4
	TOTAL HOURS	72

* Strongly recommended elective

**WV State
Certification
Requirements:**

- PRAXIS CORE ACADEMIC SKILLS TEST FOR EDUCATORS: Composite Test #5751 (Individual tests are: Reading, #5712; Writing #5722; Mathematics # 5732. [NOTE: May be waived if you have already completed a master’s degree OR if you scored 26 on the ACT OR if you scored 1125 or 1170(revised) on the SAT.]
- PRAXIS II #5265 Physics, score 126 [NOTE: Successful completion of this assessment is required prior to student teachings; scores must be received prior to the first day of the internship.]
- Praxis II #5624, Principles of Learning and Teaching (PLT) [NOTE: Successful completion of this assessment is required prior to applying for a WV teaching license. Receiving a passing score on this assessment is not required for WVU program completion or for graduation.]

Disclaimer:

Curriculum summary sheets and checklists are subject to change due to program changes and changes made in state certification requirements.