

Undergraduate Secondary Social Studies Teacher Education Certificate Requirements

Physics

Candidate: _____

Campus ID: _____

<i>All Courses Must be Completed with a C or Better</i>					
PHYSICS CORE REQUIREMENTS	Semester	Grade	PROFESSIONAL EDUCATION REQUIREMENTS:		
MATH 151 Calculus and Analytic Geometry I (MS)	_____	_____	<i>A GPA of 2.75 is required for official program entry. A GPA of 3.0 is required for entering internship. Students must attain a B or better in all required education courses at the 400 level.</i>		
MATH 152 Calculus and Analytic Geometry II	_____	_____	EDUCATION CORE COURSES	Semester	Grade
CMSC 104 Problem-Solving and Computer Programming	_____	_____	EDUC 310 Inquiry into Education (3)	_____	_____
PHYS 105 Ideas in Astronomy (MS) OR PHYS 106 Introduction to Astrobiology (MS)	_____	_____	EDUC 311 Psychological Foundations of Education (3)	_____	_____
PHYS 121 Introductory Physics I (MS)	_____	_____	EDUC 388 Inclusion and Instruction (3)	_____	_____
Arts & Humanities Electives I, II, AND III	_____	_____	EDUC 412 Analysis of Teaching and Learning (3)	_____	_____
Language/Culture Electives I, II, AND III	_____	_____	EDUC 410 Literacy in the Content Area I (3)	_____	_____
Social Sciences Elective	_____	_____			
ENGL 100 Composition	_____	_____	PHASE I INTERNSHIP SEMESTER (Fall Only)*		
PSYC 100 Introduction to Psychology (SS)	_____	_____	EDUC 411 Literacy in the Content Area II (3)	_____	_____
MATH 251 Multivariable Calculus	_____	_____	EDUC 427 Science in the Secondary School (3)	_____	_____
MATH 221 Introduction to Linear Algebra OR MATH 225 Introduction to Differential Equations	_____	_____	EDUC 448 Phase I Internship & Seminar (1)	_____	_____
PHYS 122 Introductory Physics II (MS)	_____	_____			
PHYS 224 Introductory Physics III	_____	_____	PHASE II INTERNSHIP SEMESTER (Spring Only)*		
PHYS 220 Introduction To Computational Physics	_____	_____	EDUC 456 Internship in Education (10)	_____	_____
PHYS 324 Modern Physics	_____	_____	EDUC 457 Internship Seminar in Secondary Education (2)	_____	_____
PHYS 122L Introductory Physics Laboratory	_____	_____	<i>*See https://education.umbc.edu/internship/ for internship requirements.</i>		
BIOL 100 Concepts of Biology (MS)	_____	_____			
PHYS 303 Thermal and Statistical Physics	_____	_____			
CHEM 101 Principles of Chemistry I	_____	_____			
PHYS 321 Intermediate Mechanics	_____	_____			
PHYS 330L Optics Laboratory	_____	_____			
HIST 445 History of Science to 1700 (SS) OR HIST 446 History of Science Since 1700 (SS)	_____	_____			

Information about Praxis Test Requirements: <https://www.ets.org/praxis/md/test-takers/plan-your-test/certification.html>