

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>