

Physics Secondary Education Certification 2016-2017

Required Coursework

<u>Semester 1</u>	<u>Semester 2</u>
PHYS 121	PHYS 122
EDUC 125	EDUC 130
THRS 117	PHIL 120
CHEM 105	CHEM 107

<u>Semester 3</u>	<u>Semester 4</u>
Sophomore Block	PHYS 211
EDUC 223	PHYS 225
EDUC 250	PHYS 352
EDUC 252	MATH 132
EDUC 254	
EDUC 281	
EDUC 351	
MATH 131	

<u>Semester 5</u>	<u>Semester 6</u>
Junior Block	EDUC 352
EDUC 330	PHYS 241
EDUC 332	PHYS 250
EDUC 333	MATH 233
EDUC 334	

<u>Semester 7</u>	<u>Semester 8</u>
PHYS 311	EDUC 450
PHYS 411/100/141	EDUC 455
PHYS 499	
MATH 310	

Requirement Checklist

- PHYS 121 General Physics 1, C-PN
- PHYS 122 General Physics 2
- PHYS 211 Classical Mechanics
- PHYS 225 Electronics
- PHYS 241 Modern Physics
- PHYS 250 Advanced Laboratory
- PHYS 311 Thermal Physics
- PHYS 321 Electricity and Magnetism
- PHYS 352 Optical and Atomic Physics
- PHYS 411 Quantum Mechanics or PHYS 100 or PHYS 141 Astronomy
- PHYS 499 Senior Exam (0cr)
- CHEM 105 General Chemistry 1, C-PN or
CSCI 110 Introduction to Computer Programming, C-QR
- MATH 131 Calculus and Analytical Geometry 1, C-QR
- MATH 132 Calculus and Analytical Geometry 2
- MATH 233 Calculus and Analytical Geometry 3
- MATH 310 Differential Equations
- EDUC 125 Foundations of US Education
- EDUC 130 Psychology for Teaching, C-IS
- EDUC 223 Instructional Technology (2cr)
- EDUC 250 Pre-Student Teaching Experience, Secondary School (2cr)
- EDUC 252 The Comprehensive High School (2cr)
- EDUC 254 Instructional Methodologies for Adolescents (2cr)
- EDUC 281 Teaching Children with Disabilities (2cr)
- EDUC 330 The Early Adolescent: Classroom Management (2cr)
- EDUC 332 The Adolescent: Psych & Methods in the Middle School (2cr)
- EDUC 333 The Early Adolescent: Assessment (2cr)
- EDUC 334 Middle School Field Experience (2cr)
- EDUC 351 Reading and Language Arts Across Content Areas
- EDUC 352 Advanced Reading in Content Areas(2cr)
- EDUC 450 Student Teaching: Early Adolescence
- EDUC 455 Student Teaching: Adolescence
- SSCI 301 or ENVS 300, C-AD/PN
- SSCI 408 Social Inequalities, C-AD/DD