

B.S.Ed. Physics (129 credits)

Name:	ID#	Grad Date:		
Basic Skills Requirement for Candidacy				
Candidacy req: 48 credits, 3 lit, 3 comp, 6 math, 2.8 GPA, Basic Skills Testing				
Praxis II – Physics Content Test (take before student teaching, pass for certification)				
	Credits	Course	Semester	Grade
General Education Requirements				
First Year Experience	4			
WRT 120 Effective Writing	3			
WRT 200, or 204, 205, 206, 207, 208 Critical Writing	3			
Math		MAT 161		
Diverse Communities (I)	3	ENG 382		
Interdisciplinary (I)	3	EDF 300		
Ethics Course (E)	3	ERM 355		
Science (6 credits from two areas: CHEM, BIO, ESS, PHY, CSC)	3	Bio Elec		
	3	CHE 103		
Behavior & Social Science (6 credits from two areas: ANT, SOC, PSY, ECO, GEO PSC)	3	EDP 280		
	3			
Humanities (must take a LIT course)	3	LIT		
	3			
Art	3			
Speaking Emphasis Courses (s)		SED 200		
		EDS 411		
		EDS 412		
Writing Emphasis Courses (w)		SED 300		
		PHY 310		
		PHY 320		
Capstone		EDS 411		
		EDS 412		
Education Major Requirements				
EDF 300 Democracy in Education	-			
EDP 280 Dev. And Psychological Perspectives in Education	-			
EDA 103 Foundations in Special Education	3			
EDA 303 Special Education for Secondary Educators	2			
LAN/ENG 382 ELL Strategies for Content Area Teachers	-			
EDR 347 Lit. Development and Students with Disabilities	3			
ERM 355 Ethical and Effective Assessment for 7-12 Learning	-			
SED 100 Introduction to Secondary Education	3			
SED 200 Field Experience for 7-12 Secondary Teachers	3			
SED 300 Principles of Teaching and Field Experience in Secondary Schools	3			
SED 360 Science Education in the Secondary Schools	3			

EDS 411 Student Teaching	6			
EDS 412 Student Teaching	6			
PHYSIC Content Coursework				
PHY 170 Physics I	4			
PHY 175 Computational Physics	3			
PHY 180 Physics II	4			
PHY 240 Introduction to Modern Physics	3			
PHY 300 Mechanics	3			
PHY 310 Intermediate Physics Lab I	3			
PHY 320 Intermediate Physics Lab II	3			
PHY 330 Electronics	3			
PHY 410 Optics or PHY 430 electricity and Magnetism	3			
Required Supporting Math and Science Coursework				
MAT 161 Calculus I	4			
MAT 162 Calculus II	4			
MAT 261 Calculus III	4			
MAT 315 Differential Equations and Linear Algebra	3			
CHE 103 General Chemistry I	3			
CRL 103 EXP General Chemistry	1			
CHE 104 General Chemistry II	3			
CRL 104 EXP General Chemistry II	1			
PHY 105 Structure of the Universe or ESS 311 General Astronomy	3			
Biology Elective	-			

Semester	Suggested Courses	Credits
Year 1		
One (17 cr.)	PHY 105 Structure of the Universe MAT 161 Calculus I WRT 120 Effective Writing I FYE 100X First Year Experience Humanities or Ethics General Education	3 4 3 4 3
Two (17 cr.)	PHY 170 Physics I MAT 162 Calculus II SED 100 Exploration of Secondary Education EDP 280 Educational Psychology WRT 200 Critical Writing and Research	4 4 3 3 3
Year 2		
Three (17 cr.)	PHY 180 Physics II MAT 261 Calculus III EDA 103 Foundations of Special Education EDF 300 Democracy & Education LIT 165 Topics in Literature	4 4 3 3 3
Four (18 cr.)	PHY 175 Computational Physics PHY 240 Introduction to Modern Physics	3 3

	MAT 315 Differential Equations and Linear Algebra	3
	SED 200 Field Experience for 7-12 Secondary Teachers	3
	EDA 303 Special Education for Secondary Educators	3
	Behavioral & Social Science Elective	3
Year 3		
Five (16 cr.)	PHY 300 Mechanics	3
	PHY 310 Intermediate Physics Lab I	3
	CHE 103 General Chemistry I	3
	CHE 103L General Chemistry I Lab	1
	LAN/ENG 382 ELL Strategies for Content Area Teachers	3
	EDR 347 Lit. Development & Sec. Students with Disabilities	3
Six (16 cr.)	PHY 320 Intermediate Physics Lab II	3
	PHY 330 Electronics	3
	CHE 103 General Chemistry II	3
	CHE 103L General Chemistry II Lab	1
	SED 300 Principles of Teaching and Field Experience in Secondary Schools	3
	ERM 355 Ethical and Effective Assessment for 7-12 Learning	3
Year 4		
Seven (16 cr.)	PHY 410 Optics	3
	BIO 110 General Biology I	4
	SED 360 Science Education in the Secondary Schools	3
	Behavioral & Social Science Elective	3
	Arts General Education Elective	3
Eight (12 cr.)	EDS 411 Student Teaching Secondary – 1 st half	6
	EDS 412 Student Teaching Secondary – 2 nd half	6