

B.S.Ed. Earth and Space Science (127 Credits)

Name	ID#	Grad Date:		
Basic Skills Requirement for Candidacy				
Candidacy req: 48 credits, 3 comp, 3 lit, 6 math, 2.8 GPA, Basic Skills Testing				
Praxis II – Earth and Space Science 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	3	MAT 121		
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)	-	BIO 110		
	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 165		
	3			
Art	3			
Speaking Emphasis Courses (s)		SED 200		
		EDS 411		
		EDS 412		
Writing Emphasis Courses (w)		LIT 165		
		ESS 201		
		SED 300		
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 Sec. 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 or 7-12 Secondary Teachers	3			
SED 300 Principles of Teaching and Field Experience in Secondary Schools	3			
SED 360 Science Education in the Secondary School	3			

EDS 411 Student Teaching	6		
EDS 412 Student Teaching	6		
Earth and Space Science Content Coursework			
ESS 101 Introduction to Geology	3		
ESS 201 Field Geology	3		
ESS 204 Historical Geology	3		
ESS 301 Environmental Geochemistry	3		
ESS 302 Mineralogy	3		
ESS 343 Geomorphology	3		
ESS 405 Igneous and Metamorphic Petrology	3		
ESS 439 Hydrogeology	3		
ESS 450 Sedimentology and Stratigraphy	3		
ESS/SCB/ENV 102 Humans and the Environment	3		
ESS 311 Introduction to Astronomy	3		
ESS 330 Introduction to Oceanography	3		
ESS 347 Seminar	1		
ESS 370 Introduction to Meteorology	3		
Required Supporting Math and Science Coursework			
MAT 115 Algebra & trigonometry or MAT 131 Pre-Calculus	3		
MAT 121 Statistics I	-		
BIO 110 General Biology I	4		
CHE 103 General Chemistry I	-		
CRL 103 EXP General Chemistry I	1		
PHY 130 General Physics I or PHY 170 Physics I	4		

Semester	Suggested Courses	Credits
Year 1		
One (16 cr.)	ESS 101 Introduction to Geology MAT 115 Algebra, Functions, and Trigonometry OR MAT 121 Introduction to Statistics I WRT 120 Effective Writing I PHI 180 Introduction to Ethics FYE 100X First Year Experience	3 3 3 3 4
Two (15 cr.)	ESS 102 Humans and the Environment OR SCB 102 The Origin of Life and the Universe MAT 115 Algebra, Functions, and Trigonometry OR MAT 121 Introduction to Statistics I WRT 2XX 200-level Writing Course SED 100 Exploration of Secondary Education EDP 280 Educational Psychology	3 3 3 3 3
Year 2		
Three (16 cr.)	ESS 201 Field Geology ESS 204 Historical Geology	3 3

	CHE 103 General Chemistry I CRL 103 General Chemistry I Lab EDA 103 Foundations of Special Education EDF 300 Democracy & Education	3 1 3 3
Four (17 cr.)	ESS 330 Introduction to Oceanography ESS 301 Environmental Geochemistry ESS 343 Geomorphology SED 200 Field Experience for 7-12 Secondary Teachers EDA 303 Special Education for Secondary Educators Humanities Gen Education	3 3 3 3 2 3
Year 3		
Five (17 cr.)	ESS 302 Mineralogy ESS 311 Introduction to Astronomy ESS 347 Earth & Space Science Seminar PHY 130 General Physics I LAN/ENG 382 ELL Strategies for Content Area Teachers Behavioral & Social Science Gen Ed	3 3 1 4 3 3
Six (16 cr.)	ESS 405 Igneous and Metamorphic Petrology ESS 439 Hydrogeology BIO 110 General Biology I SED 300 Principles of Teaching and Field Experience in Secondary Schools ERM 355 Ethical & Effective Assessment for K-12 Learning	3 3 4 3 3
Year 4		
Seven (18 cr.)	ESS 370 Introduction to Meteorology ESS 450 Sedimentation & Stratigraphy SED 360 Science Education in the Secondary School EDR 347 Literacy Development and Secondary Students with Disabilities in Inclusive Classrooms Behavioral & Social Science Gen Ed Arts Gen Ed.	3 3 3 3 3 3
Eight (12 cr.)	EDS 411 Student Teaching Secondary – 1 st half EDS 412 Student Teaching Secondary – 2 nd half	6 6