B.S.Ed. Earth and Space Science (126 Credits)

Name	ID#	# Grad Date:				
Basic Skills Requirement for Candid	It for Candidacy (requirement suspended through July 2025)					
Candidacy req: 48 credits, 3 comp, 3 lit, 6 math, 2.9 GPA, Basic Skills Testing						
Praxis II – Earth and Space Science Content Test (take before student teaching, pass for certification)					ration)	
Traxis in Bartin and Space Science	content rest (CREDITS	COURSE	SEMESTER	GRADE	REP/W**
GENERAL EDUCATION REQUIRE	MENTS (61 la					
First Year Experience		4		Keyun emenes –		
WRT 120 Effective Writing		3				
WRT 200, or 204, 205, 206, 207, 20	8 Critical	3				
Writing		_				
Math		-	MAT 121			
Diverse Communities (J)		-	ENG 382			
Interdisciplinary (I)		-	EDF 300			
Ethics Course (E)		-	ERM 355			
Science (6 credits from two areas: 0	CHEM, BIO,	-	BIO 110			
ESS, PHY, CSC)		-	CHE 103			
Behavior & Social Science (6 credit		3				
areas: ANT, SOC, PSY, ECO, GEO PSO		3	ļ		ļ	
Humanities (must take a LIT course	e)	3	LIT (REQ for			
			Candidacy)			
		3				
Art		3				
Speaking Emphasis Courses (s)			SED 200			
			EDS 411			
			EDS 412			
Writing Emphasis Courses (w)			LIT 165			
			SED 300			
Capstone			ESS 201 SED 411			
Capstolle			SED 411 SED 412			
EDUCATION CORE REQUIREMEN	NTS (29 credi	ts)	560 412			
EDF 300 Democracy and Educatio		3				
EDP 280 — Developmental and Ps		3				
Perspectives in Education	.,	_				
EDA 103 — Foundations of Specia	l Education	3				
EDA 303 — Special Education for		2				
Educators	-					
EDR 347 — Literacy Development	t & Sec	3				
Students w/Disabilities						
LAN/ENG 382 — ELL Strategies fo	or Content	3				
Area Teachers						
ERM 355 Ethical and Effective Ass	essment for	3				
Learning 7 – 12 "E"		2				
SED 100 An Exploration of Second	lary	3				
Education SED 200 Learning Environments &	2. Field	3	<u> </u>	<u> </u>		
Experience in Secondary Schools.		5				
SED 300 Principles of Teaching an		3				
Technology in Secondary Education		5				
SCIENCE EDUCATION REQUIREM		lits)				1
SED 360 Science Education in the S		3				
Schools	- -					
EARTH & SPACE SCIENCE COURSES - CORE (40 CREDITS) *						
ESS 201 Field Geology "W"		3				
ESS 202 Physical Geology		3				
ESS 204 Historical Geology "W"		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	3				
Environment OR SCB 210					
ESS 311 Introduction to Astronomy	3				
ESS 330 Introduction to Oceanography	3				
ESS 347 Seminar	1				
ESS 370 Introduction to Meteorology	3				
COGNATE REQUIREMENTS (18 CREDITS)					
MAT 115 Algebra & trigonometry or	3				
MAT 131 Pre-Calculus					
MAT 121 Statistics I	3				
BIO 110 General Biology I	4				
CHE 103 General Chemistry I	3				
CRL 103 General Chemistry I Lab	1				
PHY 130 General Physics I or PHY 170 Physics I	4				
CAPSTONE EXPERIENCE (12 CREDITS)					
*SED 411 — Student Teaching	6				
Stage IV Fields: Clearances Needed					
*SED 412 — Student Teaching	6				
Stage IV Fields: Clearances Needed					
TOTAL	127				

*must attain a C- or higher in all coursework

Semester	Suggested Courses	Credits			
Year 1					
One	ESS 102 Humans and the Environment OR	3			
(16 cr.)	SCB 102 The Origin of Life and the Universe				
	MAT 115 Algebra, Functions, and Trigonometry OR	3			
	MAT 121 Introduction to Statistics I				
	WRT 120 Effective Writing I	3			
	Behavioral & Social Science Gen Ed	3			
	FYE 100X First Year Experience	4			
Two	ESS 202 Physical Geology	3			
(15 cr.)	MAT 115 Algebra, Functions, and Trigonometry OR	3			
	MAT 121 Introduction to Statistics I				
	WRT 2XX 200-level Writing Course	3			
	SED 100 Exploration of Secondary Education	3			
	EDP 280 Educational Psychology	3			
	Year 2				
Three	ESS 201 Field Geology	3			
(16 cr.)	ESS 204 Historical Geology	3			
	CHE 103 General Chemistry I	3			
	CRL 103 General Chemistry I Lab	1			
	EDA 103 Foundations of Special Education	3			
	EDF 300 Democracy & Education	3			
Four	ESS 301 Environmental Geochemistry	3			
(18 cr.)	ESS 343 Geomorphology	4			
	BIO 110 General Biology I	3			
	SED 200 Learning Environments & Field Experience in	3			
	Secondary Schools. "S"				
	EDA 303 Special Education for Secondary Educators	2			
	Humanities Gen Education (LIT COURSE)	3			
	Year 3				

Five	ESS 302 Mineralogy	3		
(17 cr.)	ESS 330 Introduction to Oceanography	3		
	ESS 347 Seminar	1		
	PHY 130 General Physics I	4		
	SED 300 Principles of Teaching and Technology in Secondary	3		
	Education "W"			
	Behavioral & Social Science Gen Ed 2	3		
Six	ESS 311 Astronomy	3		
(15 cr.)	ESS 405 Igneous and Metamorphic Petrology	3		
	ESS 439 Hydrogeology	3		
	LAN/ENG 382 ELL Strategies for Content Area Teachers	3		
	ERM 355 Ethical & Effective Assessment for K-12 Learning	3		
	Year 4			
Seven	ESS 370 Introduction to Meteorology	3		
(18 cr.)	ESS 450 Sedimentation & Stratigraphy	3		
	SED 360 Science Education in the Secondary School	3		
	EDR 347 Literacy Development and Secondary Students with	3		
	Disabilities in Inclusive Classrooms			
	Arts Gen Ed.	3		
	Humanities Gen Education	3		
Eight	EDS 411 Student Teaching Secondary – 1 st half	6		
(12 cr.)	EDS 412 Student Teaching Secondary – 2 nd half	6		