

Earth and Space Science Bachelor of Science in Education: Secondary Education

Program Code: UCOESEUES
Version Number: 2118-Fall 2011
Program Effective: August 29, 2011
Credit Total: 121

GENERAL EDUCATION		
I. University Core: 12 S.H.	GR.	S.H.
a. Oral Communication: COM 010 or above		3
b. Written Communication: ENG 023, 024 or 025 ♦		3
c. Mathematics: MAT 105 or above OR MAT 181 (suggested) ♦		#
d. Wellness: Any 3 credit HEA course		3

II. University Distribution: 15 S.H.	GR.	S.H.
a. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE or PHY ; or certain GEG courses with advisement BIO 104 (suggested)		#
b. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, MCS, POL, PSY, SOC, SSE or SWK ; or certain GEG courses with advisement		3
c. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WGS, WRI, or Modern Language ENG 010 or higher (English Literature) (suggested) ♦		3
d. Arts: Any course prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE		3
e. Free Elective: Any course carrying university credit		3

IV. College Distribution: 21 S.H.	GR.	S.H.
a. Math: MAT 105 or above OR MAT 182 (suggested) ♦		#
b. Special Education: SPU 201 Cognitive Development		#
c. Technology: ITC 321 Instructional Technology in Education		3
d. 12 credits required by major but fulfilling General Education requirements		
COURSE: CHM 100 (suggested)		#
COURSE: CHM 102 (suggested)		#
COURSE: GEL 100 (suggested)		#

III. Competencies Across the Curriculum	S.H.
A. Writing Intensive (WI) (9 credits/3 three credit courses) COURSE: SEU 312 COURSE: SEU 342 COURSE: SEU 321-325, 410	9
B. Quantitative Literacy (QL) (3 credits) OR Computer Intensive (CP) (3 credits) COURSE: ITC 321	3
C. Visual Literacy (VL) (3 credits) OR Communication Intensive (CM) (3 credits) COURSE: SEU 342	3
D. Cultural Diversity (CD) (3 credits) COURSE: SEU 312	3
E. Critical Thinking (CT) (3 credits) COURSE: EDU 100	3

VI. Clinical Component: 36 S.H.	GR.	S.H.
EDU 100 Perspectives on American Education		3
SPU 201 Cognitive Development of Diverse Learners in a Standards Aligned System #		3
SPU 314 Effective Instructional Strategies for Students with Disabilities in Inclusive Settings		3
¹ SEU 312 Principles of Learning		3
¹ SEU 313 Principles of Learning Clinical Lab (must be taken with accompanying lecture-SEU 312)		3
¹ SEU 342 Principles of Teaching		3
¹ SEU 343 Principles of Teaching Clinical Lab (must be taken with accompanying lecture-SEU 342)		3
EDU 326 Introduction to Middle Level Education		3
¹ SEU 410 Science Instructional Methods for Middle and High School		3
SEU 390/391 Clinical Experience and Practicum I and II		12
Total		

¹Teacher Candidacy must be achieved for these courses and a minimum grade of B- is required.

TEACHER CANDIDACY REQUIREMENTS

Requirements must be met upon reaching 48 credit hours

- Required Basic Skills Assessment
- Required Grade Point Average
- C or better in ENG 023 or 025
- C or better in ENG literature course
- C or better in two mathematics courses
- Completion of Education Exploration hours

♦ These courses require a grade of "C" or better

B.S. in Secondary Education – Earth and Space Science

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V. SPECIALIZATION: 58-61 S.H.		
1. Required Courses: 40 S.H.	GR.	S.H.
AST 140 Astronomy I		3
AST 142 Astronomy II		3
BIO 104 Principles of Biology	#	4
CHM 100 General Chemistry I	#	4
CHM 102 General Chemistry II	#	4
GEL 100 Physical Geology	#	4
GEL 102 Elements of Historical Geology		4
GEL 110 Introduction to Oceanography		3
GEG 204 Meteorology		3
PHY 040 General Physics I		4
PHY 042 General Physics II		4
Total		
2. Astronomy Electives: Select one course from below 3-4 S.H.		
AST 240 The Planetarium		3
AST 350 Practical Astronomy		4
AST 340 Introduction to Astrophysics		4
Total		
3. Geology Elective: 3 S.H.		
GEL		3
Total		
4. Environmental Science: 6 S.H.		
ENV 100 Introduction to Environmental Science		3
ENV 210 Environmental Geology		3
Total		
5. Mathematics: 6-8 S. H. (MAT 105 or above at the student's level of competence.)		
MAT	#	3-4
MAT	#	3-4
Total		

Courses cross-list with General Education

Program:		BSED SEU/EARTH & SPACE SCIENCE			
FIRST YEAR					
<i>Fall Semester</i>			<i>Spring Semester</i>		
<i>Course</i>	<i>Title</i>	<i>C.H.</i>	<i>Course</i>	<i>Title</i>	<i>C.H.</i>
EDU 100CT	Perspectives on American Education	3	SPU 201	Cognitive Development of Diverse Learners in a Standards Aligned System	3
COM 010	Fundamentals of Oral Communication	3	MAT 017 or above	Mathematics General Education Requirement	3 or 4
ENG 23, 24 or 25	College Composition	3		ENG Literature Course (Humanities General Education Requirement)	3
MAT 017 or above	Mathematics General Education Requirement	3 or 4		ESS Required Course	3 or 4
	ESS Required Course	3 or 4		ESS Required Course	3 or 4
Total		15 or 17	Total		15 or 18
SECOND YEAR					
<i>Fall Semester</i>			<i>Spring Semester</i>		
<i>Course</i>	<i>Title</i>	<i>C.H.</i>	<i>Course</i>	<i>Title</i>	<i>C.H.</i>
ITC 321CPVL	Instructional Technology in Education	3	SPU 314	Effective Instructional Strategies for Students with Disabilities in Inclusive Settings	3
	General Education Requirement (Wellness, Social Sciences, Natural Sciences, or Arts)	3 or 4		General Education Requirement (Wellness, Social Sciences, Natural Sciences, or Arts)	3 or 4
	General Education Requirement (Wellness, Social Sciences, Natural Sciences, or Arts)	3 or 4		General Education Requirement (Wellness, Social Sciences, Natural Sciences, or Arts)	3 or 4
	ESS Required Course	3 or 4		ESS Required Course	3 or 4
	ESS Required Course	3 or 4		ESS Required Course	3 or 4
Total		15 or 19	Total		15 or 19
THIRD YEAR					
<i>Fall Semester</i>			<i>Spring Semester</i>		
<i>Course</i>	<i>Title</i>	<i>C.H.</i>	<i>Course</i>	<i>Title</i>	<i>C.H.</i>
SEU 312WICD	Principles of Learning	3	SEU 342WIVL	Principles of Teaching	3
SEU 313	Principles of Learning Clinical Component	3	SEU 343	Principles of Teaching Clinical Component	3
	General Education Requirement (Free Elective)	3 or 4		ESS Required Course	3 or 4
	ESS Required Course	3 or 4		ESS Required Course	3 or 4
	ESS Required Course	3 or 4		ESS Required Course	3 or 4
Total		15 or 18	Total		15 or 18
FOURTH YEAR					
<i>Fall Semester</i>			<i>Spring Semester</i>		
<i>Course</i>	<i>Title</i>	<i>C.H.</i>	<i>Course</i>	<i>Title</i>	<i>C.H.</i>
SEU 410WI	Science Instructional Methods for Middle & High School	3	SEU 390	Clinical Experience & Practicum I	6
	ESS Required Course	3 or 4	SEU 391	Clinical Experience & Practicum II	6
	ESS Required Course	3 or 4			
	ESS Required Course	3 or 4			
EDU 326	Introduction to Middle Level Education	3			
Total		15 or 18	Total		12