

The B.S. degree in Earth and Space Science Education prepares a student to teach science in secondary schools, grades 7-12. In addition to the required courses in Biology, Chemistry, Geoscience and Physics, the student will complete 31 hours of Professional Education courses, i.e. teacher-training courses, Special Education Competency course, and successfully pass the Praxis I and II exams. See the *IUP Three Step Process for Teacher Education*.

SUMMARY STATEMENT

Liberal Studies Requirements	52cr
College of Education Requirements	31cr
Major Requirements	39cr
TOTAL	122cr

LIBERAL STUDIES REQUIREMENTS**52 credits total****Learning Skills: English Composition: Two Courses****7cr**

_____ ENGL 101 College Writing	4cr
_____ ENGL 202 Research Writing	3cr

Learning Skills: Mathematics (specified by the Geoscience Dept.)**4cr**

_____ MATH 121 Calculus I for Natural and Social Sciences	4cr
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Humanities: Three Courses**9cr**

_____ HIST 195 The Modern Era	3cr
_____ ENGL 121 Humanities Literature	3cr
_____ PHIL 101, 120, 221, 222, 223; RLST 100, 110, 250, 290	3cr

Fine Arts: One Course from List**3cr**

_____ ARHI 101, DANC 102, MUHI 101, MUHI 102, THTR 101	3cr
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Natural Science (specified by the Geoscience Dept.)**8cr**

_____ CHEM 111 or CHEM 113	4cr
_____ CHEM 112 or CHEM 114	4cr

Social Science: Three Courses from List***9cr**

_____ PSYC 101 (specified by the Geoscience Department)	3cr
_____ Course 2: _____	3cr
_____ Course 3: _____ (non-Western)	3cr

*See Undergraduate Catalog for list; no course prefix may be used more than once

Health and Wellness: One Course**3cr**

_____ HPED 143, FDNT 143, NURS 143	3cr
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Liberal Studies Electives (specified by the Geoscience Dept.)**6cr**

_____ MATH 217	3cr
_____ PHYS 111	3cr

Non-Western Cultures: One Course from List**0cr***

_____ *This course will most likely also be a Social Science course

Synthesis: One Course**3cr**

_____ LBST 499	3cr
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Writing Across the Curriculum: Two "W" Courses**0cr***

*These courses will also count toward some other requirement; one course must be in the major

_____ Course: _____	
_____ Course: _____	

COLLEGE REQUIREMENTS:

31 credits total

Preprofessional Education Sequence:

_____	COMM 103 Digital Instructional Technology	3cr
_____	EDSP 102 Educational Psychology	3cr

Professional Education Sequence:

_____	EDEX 301 Education of Students with Disabilities in Inclusive Secondary Settings	2cr
_____	EDEX 323 Instruction of English Language Learners with Special Needs	2cr
_____	EDSP 477 Assessment of Student Learning: Design and Interpretation of Educational Measures Outcomes	3cr
_____	EDUC 242 Pre-Student Teaching Clinical Experience I	1cr
_____	EDUC 342 Pre-Student Teaching Clinical Experience II	1cr
_____	EDUC 441 Student Teaching	12cr
_____	EDUC 442 School Law	1cr
_____	EDUC 451 Teaching Science in the Secondary School	3cr

MAJOR REQUIREMENTS:

39 credits total

Required Courses:

_____	GEOS 201 Foundations of Geology	4cr
_____	GEOS 202 Quantitative Methods in the Geosciences	2cr
_____	GEOS 341 Planetary Geology	4cr
_____	GEOS 342 Stellar Astronomy	4cr
_____	GEOS 353 Paleontology	4cr
_____	GEOS 370 Oceanography	4cr
_____	GEOS 371 Meteorology	3cr
_____	BIOL 111 Principles of Biology I	4cr
_____	PHYS 121 Physics I Lab	1cr

Controlled Electives:

9cr

Select 9 credits from the following list:

- GEOS 203 Surficial Geology
- Any 300-level GEOS course
- Any 400-level GEOS course, except GEOS 470 and 480
- PHYS 112 Physics II
- PHYS 122 Physics II Lab

<u>Course</u>	<u># Credits</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
Total Controlled Electives:	_____