

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	48cr
College of Education Requirements	31cr
Major Requirements	39cr
Free Electives	2cr
TOTAL	120cr

LIBERAL STUDIES REQUIREMENTS

48 credits total

Learning Skills: English Composition - Two Courses

6cr

_____ ENGL 101 College Writing

3cr

_____ ENGL 202 Research Writing

3cr

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

4cr

_____ MATH 121 Calculus I for Natural and Social Sciences

4cr

Learning Skills: Dimensions of Wellness - One Course

3cr

_____ any 143 course with prefix HPED, ECON, FDNT, NURS, FIN, FCSC

3cr

Learning Skills: Global and Multicultural Awareness - One Course

0cr*

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

Knowledge Area: Humanities - Three Courses

9cr

_____ HIST 196, 197, or 198

3cr

_____ ENGL 121 Humanities Literature

3cr

_____ PHIL 100, 101, 120, 122, 223; RLST 100, 110, 250, 290

3cr

Knowledge Area: Fine Arts - One Course from List

3cr

_____ ARHI 101, DANC 102, FIAR 101, MUHI 101, MUHI 102, THTR 101

3cr

Knowledge Area: Natural Science (specified by the Geoscience Dept.)

8cr

_____ CHEM 111 or CHEM 113

4cr

_____ CHEM 112 or CHEM 114

4cr

Knowledge Area: Social Science - Three Courses from List*

9cr

_____ PSYC 101 (specified by the Geoscience Department)

3cr

_____ Course 2: _____

3cr

_____ Course 3: _____ (G. & M.A.)

3cr

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

Liberal Studies Electives (specified by the Geoscience Dept.)

6cr

_____ MATH 217

3cr

_____ PHYS 111

3cr

Writing Across the Curriculum: Two "W" Courses

0cr*

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

_____ Writing Course #1: _____

_____ Writing Course #2: _____

COLLEGE REQUIREMENTS:

31 credits total

Pre-professional 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 201 Principles of Ecology and Evolution 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

Controlled Electives (9 cr)		Free Electives (2 cr)	
Course	# Credits	Course	# Credits