Natural Sciences - Earth Science Option, B.A.

DEPARTMENT

Science and Mathematics Interdisciplinary Courses and Programs

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www.fresnostate.edu/csm

BA in Natural Sciences - Biology Option, B.A.
BA in Natural Sciences - Earth Science Option, B.A.
BA in Natural Sciences - Physics Option, B.A.
BA in Natural Sciences - Chemistry Option, B.A.
Courses Offered

The Bachelor of Arts in Natural Sciences serves as a waiver program for the Single Subject Teaching Credential in Science. With the Science Credential, students are able to teach any introductory science class, i.e. earth, general, life, or physical science along with the courses in their chosen emphasis. Please contact Mr. Jaime Arvizu, College of Science and Mathematics counselor, for advising and more information, at 278-5173.

REQUIREMENTS

Bachelor of Arts Degree Requirements

Natural Sciences Major

Earth Science Option

The B.A. in Natural Sciences serves as a waiver program for the Single Subject Teaching Credential in Science. Please contact Mr. Jaime Arvizu, College of Science and Mathematics counselor, for advising and more information at 278-5173.

The degree is also a suitable choice for students with a general interest in earth science and interest in pursuing a career in environmental science, law, medicine, dentistry, optometry, and other areas for which the breadth of scientific coverage of this degree is advantageous.

The B.A. in Natural Sciences with the Earth Science Emphasis is as follows:

1. Major Requirements (79 units)

   Core requirements (36 units)
   Biology (12 units)
   BIOL 1A, 1B, 1BL, 101

   Chemistry (10 units)
   CHEM 1A, 1AL, 1B, 1BL

   Geology (7 units)
   EES 1 and 168

   Natural Science (3 units)
   NSCI 106

   Physical Science (4 units)
   PSCI 21

   Earth Science Option (43 units)
   PHYS 2A, 2B (see note 1) (8 units)
   MATH 75 (4 units)
   EES 12, 30, 100, 101, 102, 105, 112, 155 (24 units)
   Select two courses: EES 110, 114, 117, 124; GEOG 111 (6 units)
EES 3 (1 unit)

2. General Education requirements (49 units)

3. Other requirements (6 units)
   Upper-division writing and Multicultural and International (MI)

4. Sufficient elective units to meet required total units (varies)

5. Total (120 units) (see notes 2,3)*

* G.E. and MI courses can be double-counted with major requirements. The writing requirement may be met by taking the upper-division writing exam. See advisor for details.

Advising Notes for all Options within the Natural Sciences Major

1. Substitutions may be made with the permission of the appropriate department chair. PHYS 4A-B-C with labs 4AL, 4BL is recommended instead of PHYS 2A-B for those students well-prepared for physics.

2. This total assumes that students in this option will maximize 13 units required for the major that also may be applied to fulfill General Education requirements as follows: CHEM 1A/1AL (4 units), BIOL 1A (3 units), EES 168 (3 units) and, depending on emphasis and choice, MATH 75 (3 units). Consult your major advisor for details.

FACULTY

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