Single Subject Credential - Biological Science

DEPARTMENT

MN in Biology, Minor
MS in Biology, M.S.
MBT in Biotechnology, M.Bt.
BS in Biology, B.S.
CERT in Biotechnology, Certificate of Adv. Study
CRED in Professional Clear Foundation Level General Science
CRED in Single Subject Credential - Biological Science

REQUIREMENTS

Department

Teaching Credential - Biology Option Requirements

Bachelor of Arts in Natural Sciences

The B.A. in Natural Sciences serves as a waiver program for the Single Subject Teaching Credential in Science. This degree program is designed for students who wish to become high school science teachers. Students may also complete the credential requirements while obtaining a B.S. in biology. Please contact Mr. Jaime Arvizu, College of Science and Mathematics counselor, for advising and more information at 559.278.5173. The B.A. in Natural Sciences with the Biology Option is as follows:

**Core requirements (36 units)**

Biology (12 units)
BIOL 1A, 1B and 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

**Biology Option (39-41 units)**

CHEM 8 or 128A (3 units)
PHYS 2A, 2B (see note 1) (8 units)
MATH 75 (4 units)
MATH 101 or PSYCH 42 (4 units)
BIOL 102, 103, 104, 105 (10 units)
BIOL 120 (4 units)
Select one course: BIOL 122, 124, 125, 130, 131, 132, 133, 135, 136, 171, 172S (3-4 units)
Select one course: BIOL 160, 161, 162 and 162L, 163 (3-4 units)

**General Education requirements (51 units) (See note 2)**

**Electives and remaining degree requirements (see notes 2,3) (4-6 units)**

Total (120 units)
Advising Notes for 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 figure takes into account that 12 units required for the major are expected to count toward General Education as follows: CHEM 1A (3 units), BIOL 1A (3 units), EES 168 (3 units), and 3 units if MATH 75 is selected. Consult your major adviser for details.

FACULTY

Faculty expertise spans the range of biology from the molecular to the ecological, with a broad representation of taxonomic specialties. Laboratories in most upper-division majors’ courses are taught by faculty, and individualized student/faculty research participation through independent study is strongly encouraged.

Faculty members have garnered independent research funding from various agencies including the National Institutes of Health, National Science Foundation, U.S. Department of Agriculture, Environmental Protection Agency, and National Sea Grant. Faculty and students also participate in collaborative studies on, for example, medical and clinical topics with local physicians and hospitals; agricultural topics with the University of California Kearney Agricultural Research and Extension Center, Agricultural Research Service San Joaquin Valley Agricultural Sciences Center in Fresno/Parlier; ecological and environmental topics with California Department of Fish and Wildlife, U.S. Forest Service and Endangered Species Recovery Program; and science educational topics with regional school districts and state and national credentialing agencies.

For faculty phone numbers and e-mail, see the campus directory.

For more on the faculty, see the faculty pages.
The faculty pages are updated by the department or program.