

NATURAL SCIENCE

Contact Information

Division

Sciences and Mathematics

Dean

Heather Roberts

Associate Dean

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Division Office

V 211, Rocklin Campus

Overview

Courses from the following departments are included in the interdisciplinary Natural Science associate degree:

- Agriculture
- Anthropology
- Astronomy
- Biological Sciences
- Chemistry
- Earth Science
- Environmental Studies and Sustainability
- Geography
- Mathematics
- Physics
- Psychology

Degrees/Certificates

Natural Science

AA or AS Degree

The Natural Science degree is designed for students who are pursuing transfer majors in the Natural Sciences, including Astronomy, Biological Science, Chemistry, Geography, Geology, Physics and related disciplines. In all cases, students should consult with a counselor for more information on university admission and transfer requirements. Students must fulfill the following major requirements with grades of "C" or better, complete a minimum of 60 degree-applicable semester units (12 of which must be completed at Sierra College) with a grade point average of at least 2.0 and complete one of the following three general education patterns:

- Sierra College Associate Degree Requirements (<http://catalog.sierracollege.edu/archive/2017-2018/student-resources/general-education/associate-degree-requirements>);
- California State University General Education Breadth (<http://catalog.sierracollege.edu/archive/2017-2018/student-resources/general-education/california-state-university-general-education-breadth-requirements>) pattern;
- Intersegmental General Education Transfer Curriculum (IGETC) (<http://catalog.sierracollege.edu/archive/2017-2018/student-resources/general-education/california-state-university-general-education-breadth-requirements>).

Required Courses

Select 18 units from the following: 18

AGRI 0198	Food, Society and the Environment
AGRI 0221	Introduction to Soil Science
ANTH 0001	Physical Anthropology
ANTH 0001L	Physical Anthropology Laboratory
ANTH 0010	Introduction to Forensic Anthropology
ASTR 0002	Introduction to Planetary Systems
ASTR 0005	Introduction to Stars, Galaxies, and the Universe
ASTR 0007	Life in the Universe
ASTR 0010	Elementary Astronomy
ASTR 0011	Observational Astronomy
ASTR 0014	Astrophotography and Imaging
ASTR 0025	Frontiers in Astronomy
BIOL 0001	General Biology
BIOL 0002	Botany
BIOL 0003	General Zoology
BIOL 0004	Microbiology
BIOL 0005	Human Anatomy
BIOL 0006	Human Physiology
BIOL 0007A	Human Anatomy I
BIOL 0007B	Human Anatomy II
BIOL 0008A	Microbiology I
BIOL 0008B	Microbiology II
BIOL 0010	Introduction to Biology
BIOL 0011	Concepts of Biology
BIOL 0014	Natural History, Ecology and Conservation (also ESS 0014)
BIOL 0015	Marine Biology
BIOL 0021	Introduction to Plant Science (also AGRI 0156)
BIOL 0024	Wildland Trees and Shrubs (Dendrology)
BIOL 0033	Introduction to Zoology
BIOL 0055	General Human Anatomy and Physiology
BIOL 0056	Biology: A Human Perspective
BIOL 0056L	Biology: A Human Perspective Laboratory
CHEM 0001A	General Chemistry I
CHEM 0001B	General Chemistry II
CHEM 0002A	Introduction to Chemistry I
CHEM 0002B	Introduction to Chemistry II
CHEM 0003A	General Chemistry I - Part 1
CHEM 0003B	General Chemistry I - Part 2
CHEM 0005	Chemistry - Quantitative Analysis
CHEM 0012A	Organic Chemistry I
CHEM 0012B	Organic Chemistry II
ESCI 0001	Physical Geology
ESCI 0001L	Physical Geology Laboratory
ESCI 0002	California Geology
ESCI 0003	Historical Geology

ESCI 0003L	Historical Geology Laboratory
ESCI 0010	Introduction to Earth Science
ESCI 0010L	Introduction to Earth Science Laboratory
ESCI 0015	Introduction to Oceanography
ESCI 0015L	Introduction to Oceanography Laboratory
ESS 0001	The Environment and the Human Impact
ESS 0010	Conservation of Natural Resources
GEOG 0001	Physical Geography
GEOG 0001L	Physical Geography Laboratory
GEOG 0004	Weather and Climate
MATH 0012	College Algebra
MATH 0013	Elementary Statistics
MATH 0016A	Calculus for Social and Life Sciences
MATH 0016B	Calculus for Social and Life Sciences
MATH 0027	Trigonometry
MATH 0029	Pre-Calculus Mathematics
MATH 0030	Analytical Geometry and Calculus I
MATH 0031	Analytical Geometry and Calculus II
MATH 0032	Analytical Geometry and Calculus III
MATH 0033	Differential Equations and Linear Algebra
MATH 0042	Business Calculus
PHYS 0010	Basic Concepts in Physics
PHYS 0010L	Basic Concepts in Physics Laboratory
PHYS 0105 & 0105L	General Physics I and General Physics I Laboratory
PHYS 0110 & 0110L	General Physics II and General Physics II Laboratory
PHYS 0205 & 0205L	Principles of Physics: Mechanics and Principles of Physics Laboratory: Mechanics
PHYS 0210 & 0210L	Principles of Physics: Electricity and Magnetism and Principles of Physics Laboratory: Electricity and Magnetism
PHYS 0215 & 0215L	Principles of Physics: Heat, Waves and Modern Physics and Principles of Physics Laboratory: Heat, Waves and Modern Physics
PSYC 0140	Introduction to Biopsychology
PSYC 0140L	Biopsychology Laboratory

Total Units

18