***Duluth Campus***

# Natural History Minor

*D Earth & Environmental Sci, Biology*

**Swenson College of Science and Engineering**

- Program Type: Undergraduate free-standing minor
- Requirements for this program are current for Fall 2016
- Required credits in this minor: 34

The natural history minor enhances student understanding of the ecology and geology of the natural world. It places particular emphasis on courses with field labs. The minor program covers a wide range of topics in earth's history, geomorphology, ecology, ornithology, entomology, ichthyology, mammalogy, animal behavior, and field interpretation for education, as well as other topics.

## Program Delivery

This program is available:

- via classroom (the majority of instruction is face-to-face)

## Minor Requirements

**Required Courses (22 cr)**

BIOL 1011 - General Biology I [LE CAT, NAT SCI] (5.0 cr)
BIOL 1012 - General Biology II [SUSTAIN] (5.0 cr)
BIOL 2801 - General Ecology (3.0 cr)
EES 1110 - Geology and Earth Systems [LE CAT, NAT SCI, SUSTAIN] (4.0 cr)
EES 2110 - Reconstructing Earth's Climate History (4.0 cr)
BIOL 4992 - Senior Seminar: Classic Readings in Natural History (1.0 cr)

**Required Electives (12 cr)**

Take 12 or more credit(s) from the following:

**Biology**

Take 1 or more course(s) from the following:

- BIOL 3601 - Plant Diversity (3.0 cr)
- BIOL 3603 - Plant Taxonomy (3.0 cr)
- BIOL 3701 - Animal Diversity (4.0 cr)
- BIOL 3760 - Marine Biology (3.0 cr)
- BIOL 3761 - Field Studies in Marine Biology (4.0 cr)
- BIOL 3830 *{Inactive}*(3.0 cr)
- BIOL 3835 - Freshwater Ecology (3.0 cr)
- BIOL 4731 - Entomology (3.0 cr)
- BIOL 4761 - Ichthyology (3.0 cr)
- BIOL 4763 - Ornithology (3.0 cr)
- BIOL 4764 - Mammalogy (3.0 cr)
- BIOL 4818 - Biotic Response to Climate Change (3.0 cr)
- BIOL 4850 - Food and Humans (3.0 cr)
- BIOL 4891 - Animal Behavior (3.0 cr)
- BIOL 5515 - Microbial Diversity and Phylogeny (3.0 cr)
- BIOL 5777 *{Inactive}*(2.0 cr)
- BIOL 5801 - Microbial Ecology (2.0 cr)
- BIOL 5802 *{Inactive}*(2.0 cr)
- BIOL 5805 - Fisheries Ecology and Management (3.0 cr)
- BIOL 5833 - Stream Ecology (3.0 cr)
- BIOL 4839 - Coral Reef Field Studies [GLOBAL PER] (3.0 cr)
- BIOL 5861 - Lake Ecology (3.0 cr)
- BIOL 5865 - Conservation Biology (2.0 cr)
- BIOL 5870 - Wetland Ecology (3.0 cr)

**•Geology**

Take 1 or more course(s) from the following:

- EES 3100 *{Inactive}*(3.0 cr)
- EES 3210 *{Inactive}*(4.0 cr)
- EES 4500 - Field Geology (6.0 cr)
- EES 5220 *{Inactive}*(3.0 cr)

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- GEOL 5320 *{Inactive}*(3.0 cr)
- EES 4839 - Coral Reef Geology [GLOBAL PER] (3.0 cr)

- **Additional Elective Options**

Take 0 or more course(s) from the following:

- ENED 3341 - Field Interpretive Techniques Fall (3.0 cr)
- ENED 3342 - Field Interpretive Techniques - Winter & Spring (3.0 cr)
- FST 3236 - Icelandic Geology & the New Society (3.0 cr)

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