

# MINOR, ENVIRONMENTAL CHANGE

## Minor

The minor in environmental change provides students with an integrative understanding of the causes, impacts, and potential mitigation of anthropogenic environmental change by combining relevant knowledge, perspectives, and critical thinking skills from across the natural sciences, engineering, social sciences, humanities, and Alaska Native studies. This minor is intentionally interdisciplinary, reflective of the multidimensionality of the social-ecological issue of environmental change. It is flexible to allow students to pursue their individual lines of interest within this broad field. UAF is a world leader in environmental change and Arctic research due in part to its location, where the impacts of climate change can be observed and felt at an accelerated pace, and is an ideal setting in which to engage with faculty possessing expertise in multiple dimensions of environmental change, through in-person and/or online coursework.

For more information or to apply please click on the "schedule an appointment" link on the undergraduate interdisciplinary studies website (<https://www.uaf.edu/inds/>).

Minimum Requirements for Environmental Change Minor: 15 credits

Undergraduate Interdisciplinary Studies - Division of General Studies  
Interdisciplinary Studies (<https://www.uaf.edu/inds/>)  
907-474-1849

## Program Requirements

Students must earn a C- grade or better in each course.

## Minimum Requirements for the Environmental Change Minor: 15 credits

Code	Title	Credits
------	-------	---------

### Environmental Change Program Requirements

Complete a minimum of 6 credits from each of the following lists: 15

Natural Sciences, Engineering and Technology

Social Sciences, Humanities and Alaska Native Studies

Additional electives can be approved by an undergraduate interdisciplinary advisor <sup>1</sup>

## LISTS

### Natural Science, Engineering and Technology 6-12 credits

Code	Title	Credits
ATM F101X	Weather and Climate of Alaska	4
ATM F456	Climate and Climate Change	3
ATM F473	Micrometeorology with Focus on Subarctic and Arctic Ecosystems	3
BIOL F103X	Biology and Society	4
BIOL F104X	Natural History of Alaska	4
BIOL F371	Principles of Ecology	4
BIOL F385	Global Change Biology	3
CE F424	Permafrost Engineering	3
ENVI Electives		1-6

FISH F110	Fish and Fisheries in a Changing World	3
GE F441	Geohazard Analysis	3
GEOS F460	The Dynamic Alaska Coastline	3
GEOS/ATM F480	Climate Change Processes: Past, Present, Future	4
MSL F481	The Oceans and Global Change	3
MSL F482	Human Impacts to the Marine Biosphere	3

Additional electives can be approved by an undergraduate interdisciplinary advisor <sup>1</sup>

### Social Sciences, Humanities and Alaska Native Studies 6-9 credits

Code	Title	Credits
ART/ACNS F425	Visual Images of the North	3
ACNS F201	The Circumpolar North: An Introductory Overview	3
ANS F101	Introduction to Alaska Native Studies	3
ANS F350	Cross-cultural Communication: Alaska Perspectives	3
ANS/ANTH/ART F365	Alaska Native Art History	3
ANS/RD F401	Cultural Knowledge of Native Elders	3
ACNS F429	Geography of the Arctic and Circumpolar North	3
ANS/ED F461	Native Ways of Knowing	3
ECON F434	Environmental Economics	3
ENGL/ACNS F449	Northern and Environmental Literature	3
HIST F411	Environmental History	3
HONR/ACNS/NRM/RD F125	Our Changing Climate: Past, Present, Future	3
NRM F101	Natural Resources Conservation and Policy	3
NRM F111X	Introduction to Sustainability Science	3
NRM F303X	Environmental Ethics and Actions	3
NRM F403	Environmental Decision-Making	3
NRM F407	Environmental Law	3
PS F447	U.S. Environmental Politics	3
PS F458	Comparative Environmental Politics	3
RD F265	Perspectives on Subsistence in Alaska	3
RD F300	Rural Development in a Global Perspective	3
RD F465	Community Healing and Wellness	3

Additional electives can be approved by an undergraduate interdisciplinary advisor <sup>1</sup>

## NOTES

<sup>1</sup> Students can choose from a list of pre-approved courses that span UAF's disciplinary strengths in environmental change. Students are also encouraged to explore other relevant courses, such as special topics courses, classes bringing in cross-cultural perspectives, research experiences, and study away programs. Any course that is not on the pre-approved list must be approved by the undergraduate interdisciplinary advisor for it to meet this minor's requirements.

**NOTE:** Students should work with their advisors to determine if courses in the minor can be shared with other degree requirements, but generally, courses meeting general education and major requirements may be shared with the Environmental Change minor.