

ENVIRONMENTAL STUDIES

College of Rural and Community Development
 907-842-5109
www.uaf.edu/bbc/

Certificate

Minimum Requirements for Certificate: 30-35 credits

This program addresses many of the environmental issues influencing Alaska communities and provides basic academic preparation for entry-level vocational environmental careers. The program serves as a steppingstone into science-related associate or baccalaureate programs.

This program may be especially of interest to individuals employed by and/or interested in employment with state, federal or tribal agencies or other groups providing natural resource management services. It is recommended that students have completed a high school lab-based science, biology or chemistry course as well as algebra due to the science focus of this program.

Certificate Program

1. Complete the general university requirements (page 111).
2. Complete the certificate requirements (page 111).*
3. Complete the following:
 - a. Complete one of the following communication courses:
 - ENGL F111X—Introduction to Academic Writing (3)
 - or ABUS F170—Business English (3)3
 - b. Complete the following:
 - DEV M F105—Intermediate Algebra (3)
 - or MATH/CS/STAT at the 100 level or higher3
 - c. Complete one of the following human relations courses:
 - ANTH F100X/SOC F100X—Individual, Society and Culture (3)
 - or ABUS F154—Human Relations (3)
 - or other program-approved discipline-based human relations course3

4. Complete the following program requirements:
 - a. Complete two science foundation courses:
 - ATM F101X—Weather and Climate of Alaska4
 - BIOL F103X—Biology and Society (4)
 - or BIOL F104X—Natural History of Alaska (4)
 - or BIOL F115X—Fundamentals of Biology I (4)4
 - CHEM F103X—Basic General Chemistry (4)
 - or CHEM F105X—General Chemistry I (4)4
 - GEOG F111X—Earth and Environment: Elements of Physical Geography4
 - MSL F111X—The Oceans4
 - b. Complete the following:
 - ENVI F101—Introduction to Environmental Science3
 - ENVI F110—Introduction to Water Quality I: Measurement1
 - ENVI F130—Introduction to the National Environmental Policy Act1
 - ENVI F160—Internship in Environmental Studies1-2
 - ENVI F260—Field Techniques for Environmental Technicians2
 - ENVI F265—Introduction to Methods in Environmental Studies2
5. Complete one of the following electives:
 - ATM F101X—Weather and Climate of Alaska4
 - BIOL F104X—Natural History of Alaska4
 - BIOL F115X—Fundamentals of Biology I4
 - CHEM F104X—Beginnings in Biochemistry4
 - CHEM F105X—General Chemistry I4
 - DEVS F100—Introduction to Science4
 - FISH F101—Introduction to Fisheries3
 - GEOG F111X—Earth and Environment: Elements of Physical Geography4
 - HLRM F130—Research Field Logistics2
 - NRM F101—Natural Resources Conservation and Policy3
 - RD F250—Grant Writing for Community Development1-3
 - STAT F200X—Elementary Probability and Statistics**3
 - Advisor-approved elective***1-3
6. Minimum credits required30-35

* Students must earn a C- grade or better in each course.
 ** Cannot be used for elective credit if used as computational credit.
 *** Similar level and subject matter.



Certificate Requirements

Communication 2-3 Credits

Complete one of the following:

- ENGL F111X—Introduction to Academic Writing..... (3)
- ABUS F170—Business English.....(3)
- ABUS F271—Business Communications(3)
- ENGL F211X—Academic Writing about Literature.....(3)
- ENGL F212—Business, Grant and Report Writing*(3)
- ENGL F213X—Academic Writing about the Social and Natural Sciences(3)
- COMM F121X—Introduction to Interpersonal Communication(3)
- COMM F131X—Fundamentals of Oral Communication: Group Context(3)
- COMM F141X—Fundamentals of Oral Communication: Public Context.....(3) or successful completion of competency test
- DEVS F104—University Communications.....(1-3)
- DEVS F105—Intensive Reading Development(3)
- Other program-approved discipline-based communication course or discipline-based courses with embedded communication content.....(2-3)

* ENGL F212 does not fulfill the second half of the written communication requirement for the bachelor's degree.

Computation 2-3 Credits

Complete one of the following:

- Any course at the F100-level or above in mathematical sciences (computer science, math or statistics).....(3)
- ABUS F155—Business Math.....(3)
- DEVM F105—Intermediate Algebra(3)
- ECE F117—Math Skills for Early Childhood Educators.....(3)
- HLTH F116—Mathematics in Health Care(3)
- HUMS F117—Math Skills for Human Services(3)
- TTCH F131—Mathematics for the Trades(3)
- Other program-approved discipline-based computation course or discipline-based courses with embedded computation content.(2-3)

Human Relations 2-3 Credits

Complete one of the following:

- ANTH F100X/SOC F100X—Individual, Society and Culture (s).....(3)
- ABUS F154—Human Relations(3)
- ANL F287—Teaching Methods for Alaska Native Languages (h).....(3)
- ECE F104—Child Development: Prenatal, Infants and Toddlers (s)(3)
- ECE F107—Child Development II: Preschool and Primary Years (s)(3)
- ED/PSY F245—Child Development (s)(3)
- HLTH F106—Human Behavior in Health Care (s).....(3)
- HUMS F120—Cultural Diversity in Human Services.....(3)
- RHS F110—Cross-Cultural Bridging Skills (1) AND RHS F115—Issues of Personal Development(2)
- Other program-approved discipline-based human relations or discipline-based courses with embedded human relations content.(2-3)

Major specialtyat least 21 Credits

Electives to total 30 Credits

Associate of Applied Science Requirements

Written Communication 6 Credits

- ENGL F111X—Introduction to Academic Writing.....(3)

Complete one of the following:

- ABUS F271—Business Communications(3)
- ENGL F211X—Academic Writing about Literature.....(3)
- ENGL F212—Business, Grant and Report Writing*(3)
- ENGL F213X—Academic Writing about the Social and Natural Sciences(3)

* ENGL F212 does not fulfill the second half of the written communication requirement for the bachelor's degree.

Oral Communication 3 Credits

Complete one of the following:

- COMM F121X—Introduction to Interpersonal Communication(3)
- COMM F131X—Fundamentals of Oral Communication: Group Context(3)
- COMM F141X—Fundamentals of Oral Communication: Public Context.....(3) or successful completion of competency test

Computation 3 Credits

Complete one of the following:

- Any course at the F100 level or above in mathematical sciences (computer science, math or statistics).....(3)
- ABUS F155—Business Math.....(3)
- DEVM F105—Intermediate Algebra(3)
- ECE F117—Math Skills for Early Childhood Educators.....(3)
- HLTH F116—Mathematics in Health Care(3)
- HUMS F117—Math Skills for Human Services(3)
- TTCH F131—Mathematics for the Trades(3)
- Other program-approved discipline-based computation course or discipline-based course with embedded computation content.....(3)

Human Relations 3 Credits

Complete one of the following:

- ANTH F100X/SOC F100X—Individual, Society and Culture (s)(3)
- ABUS F154—Human Relations(3)
- ANL F287—Teaching Methods for Alaska Native Languages (h).....(3)
- ECE F104—Child Development: Prenatal, Infants and Toddlers (s)(3)
- ECE F107—Child Development II: Preschool and Primary Years (s)(3)
- ED/PSY F245—Childhood Development (s)(3)
- HLTH F106—Human Behavior in Health Care (s).....(3)
- HUMS F120—Cultural Diversity in Human Services.....(3)
- RHS F110—Cross-Cultural Bridging Skills (1) AND RHS F115—Issues of Personal Development(2)
- Other program-approved discipline-based human relations course or discipline-based course with embedded human relations content.....(3)

Major specialtyat least 30 Credits

Electives to total 60 Credits

Minimum credits required for degree 60 Credits

