

# ENVIRONMENTAL STUDIES

College of Rural and Community Development  
 Bristol Bay Campus  
 907-842-5109  
[www.uaf.edu/bbc/](http://www.uaf.edu/bbc/)

## Certificate

Minimum Requirements for Certificate: 34 – 39 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 stepping-stone 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 93).
2. Complete the certificate requirements (page 95).\*
3. Complete the following requirements:
  - a. Complete one of the following communication courses:  
 ENGL F111X—Introduction to Academic Writing (3).....3  
 or ABUS F170—Business English (3).....3
  - b. Complete the following computation course:  
 DEVM F105—Intermediate Algebra (3)  
 or MATH/CS/STAT at the 100 level or higher .....3
  - 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 course .....3

4. Complete the following program requirements:
  - a. Complete two science foundation courses:  
 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
  - b. Complete the following:
 

ENVI F101—Introduction to Environmental Science.....	3
ENVI F110—Introduction to Water Quality I: Measurement ...	1
ENVI F130—Intro to the National Environmental Policy Act..	1
ENVI F160—Internship in Environmental Studies.....	1 – 2
ENVI F260—Field Techniques for Environmental Technicians .....	2
ENVI F265—Introduction to Methods in Environmental Studies.....	2
GEOG F111X—Earth and Environment: Elements of Physical Geography .....	4
5. Complete 3 – 4 credits from the following electives:
 

BIOL F104X—Natural History of Alaska .....	4
BIOL F115X—Fundamentals of Biology I.....	4
CHEM F104X—Beginnings in Biochemistry.....	4
CHEM F105X—General Chemistry I.....	4
DEVS F100—Introduction to Science .....	4
FISH F101—Introduction to Fisheries .....	3
HLRM F130—Research Field Logistics .....	2
NRM F101—Natural Resources Conservation and Policy .....	3
RD F250—Grant Writing for Community Development ....	1 – 3
STAT F200X—Elementary Probability and Statistics** .....	3
Advisor approved elective*** .....	1 – 3
6. Minimum credits required .....34 – 39

\* Students must earn a C grade (2.0) or better in each course.  
 \*\* Cannot be used for elective credit if used as computational credit.  
 \*\*\* Similar level and subject matter.



All degrees (e.g. Certificate, A.A., A.A.S., A.S., etc) require additional courses. Refer to specific degree and program requirements.

## Certificate Requirements

### COMMUNICATION (2-3)

Complete one of the following:

ENGL F111X.....	(3)	_____
ABUS F170.....	(3)	_____
ABUS F271.....	(3)	_____
ENGL F211X.....	(3)	_____
ENGL F212.....	(3)	_____
ENGL F213X.....	(3)	_____
COMM F131X.....	(3)	_____
COMM F141X.....	(3)	_____
DEVS F104.....	(1 – 3)	_____
DEVS F105.....	(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)

Complete one of the following:

Any course at the F100-level or above in mathematical sciences (computer science, math or statistics).....	(3)	_____
ABUS F155.....	(3)	_____
DEVM F105.....	(3)	_____
ECE F117.....	(3)	_____
HLTH F116.....	(3)	_____
HUMS F117.....	(3)	_____
PRT F155.....	(3)	_____
TTCH F131.....	(3)	_____

*Other program-approved discipline-based computation course or discipline-based courses with embedded computation content. (2 – 3)*

### HUMAN RELATIONS (2-3)

Complete one of the following:

ANTH F100X/SOC F100X.....	(3)	_____
ABUS F154.....	(3)	_____
ANL F287.....	(3)	_____
ECE F245.....	(3)	_____
ED/PSY F245.....	(3)	_____
HLTH F106.....	(3)	_____
HUMS F120.....	(3)	_____
RHS F110.....	(1)	_____
AND RHS F115.....	(2)	_____

*Other program-approved discipline-based human relations course or discipline-based courses with embedded human relations content. (2 – 3)*

**MAJOR SPECIALTY CREDITS (minimum)..... 21**

**Minimum credits for required certificate..... 30**

## Associate of Applied Science Requirements

### COMMUNICATION (9)

ENGL F111X.....	(3)	_____
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Complete one of the following:

ABUS F271.....	(3)	_____
ENGL F211X.....	(3)	_____
ENGL F212.....	(3)	_____
ENGL F213X.....	(3)	_____

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

Complete one of the following:

COMM F131X.....	(3)	_____
COMM F141X.....	(3)	_____

### COMPUTATION (3)

Complete one of the following:

Any course at the F100-level or above in mathematical sciences (computer science, math or statistics).....	(3)	_____
ABUS F155.....	(3)	_____
DEVM F105.....	(3)	_____
ECE F117.....	(3)	_____
HLTH F116.....	(3)	_____
HUMS F117.....	(3)	_____
PRT F155.....	(3)	_____
TTCH F131.....	(3)	_____

*Other program-approved discipline-based computation course or discipline-based courses with embedded computation content. (3)*

### HUMAN RELATIONS (2-3)

Complete one of the following:

ANTH F100X/SOC F100X.....	(3)	_____
ABUS F154.....	(3)	_____
ANL F287.....	(3)	_____
ECE F245.....	(3)	_____
ED/PSY F245.....	(3)	_____
HLTH F106.....	(3)	_____
HUMS F120.....	(3)	_____
RHS F110.....	(1)	_____
AND RHS F115.....	(2)	_____

*Other program-approved discipline-based human relations course or discipline-based courses with embedded human relations content. (3)*

**MAJOR SPECIALTY CREDITS (minimum)..... 30**

**Minimum credits required for degree..... 60**



**UNIVERSITY OF ALASKA FAIRBANKS**

Admissions and the Registrar • P.O. Box 757480 • Fairbanks, AK 99775-7480 • admissions@uaf.edu • www.uaf.edu

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