

# HIGH LATITUDE RANGE MANAGEMENT

College of Rural and Community Development  
Northwest Campus  
907-443-2201  
[www.nwc.uaf.edu](http://www.nwc.uaf.edu)

## Certificate

Minimum Requirements for Certificate: 31 credits

A HLRM program certificate represents the completion of at least 31 credits in the conventional field-based techniques to inventory and monitor northern animal and plant populations combining traditional knowledge with contemporary studies necessary for entry-level natural resource jobs statewide. The certificate also emphasizes place-based domesticated ungulate husbandry and health, applicable regionally and statewide. This certificate may also serve as a bridge to a variety of natural science associate and baccalaureate programs

Admission is open to all individuals, especially those employed by or interested in employment with state, federal or tribal agencies or other local entities in rural Alaska which provide natural resources management services.

Students should have a high school diploma or GED and an interest in science-related fields. It is strongly recommended that students seeking admission to this program have completed two high school, lab-based science courses preferably in biology, chemistry or physics.

Students whose ACT/SAT scores are not high enough to place them into regular college level classes will be required to take the ASSET or COMPASS test and will be placed into the appropriate developmental level course.

## Certificate Program

1. Complete the general university requirements (page 95).
  2. Complete the certificate requirements (page 97)\*.
  3. Complete the following:
    - a. Complete the following communication course:  
ENGL F111X—Introduction to Academic Writing.....3
    - b. Complete one of the following computation courses:  
MATH F103X—Concepts and Contemporary Applications of Mathematics (3)  
or ABUS F155—Business Math (3) .....3
    - c. Complete one of the following human relations courses:  
ANTH/SOC F100X—Individual, Society, and Culture (3)  
or ABUS F154—Human Relations (3).....3
  4. Complete the following program (major) requirements: \*  
NRM F101—Natural Resources Conservation and Policy.....3  
BIOL F104X—Natural History of Alaska .....4  
HLRM F120—History of Domesticated Alaskan Ungulates .....1  
HLRM F130—Research Field Logistics .....2  
HLRM F140—High Latitude Range Management .....2  
HLRM F150—Alaskan Ungulate Husbandry.....2  
HLRM F160—Meat Production .....2  
HLRM F170—Health Issues in Domesticated Ungulates .....2  
HLRM F201—Field Techniques for Range Management .....2  
HLRM F205—Report Writing in Range Management.....2
  5. Minimum credits required .....31
- \* Students must earn a C- grade or better in each course.



## 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 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 specialty at 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 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 courses 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 courses with embedded human relations content. .... (3)

Major specialty at least ..... 30 Credits

Electives to total ..... 60 Credits

Minimum credits required for degree ..... 60 Credits