High Latitude Range Management (HLRM)

College of Indigenous Studies
Community Based Science (https://www.uaf.edu/rural/academics/departments/)
907-443-2201

HLRM F120 History of Domesticated Alaskan Ungulates
1 Credit
Offered As Demand Warrants
Review the history of domesticated ungulate populations, free-ranging and fenced systems, in Alaska beginning from the 1890s to present. Emphasis will be placed on traditional activities on the Seward Peninsula.
Prerequisites: WRTG F111X.
Lecture + Lab + Other: 1 + 0 + 0
Grading System: Letter Grades with option of Plus/Minus

HLRM F130 Research Field Logistics
2 Credits
Offered As Demand Warrants
Learn the skills, techniques, and equipment used in remote scientific fieldwork in Alaska. Course includes methods for processing and storing animal/plant tissue samples, orienteering, navigation, GPS, wilderness first aid, Arctic survival, bear safety, boat safety, as well as ATV, boat, and snowmachine operation, maintenance and repair.
Lecture + Lab + Other: 1 + 3 + 0
Grading System: Letter Grades with option of Plus/Minus

HLRM F140 High Latitude Range Management
2 Credits
Offered As Demand Warrants
Policies and terminology of range and range management specific to Alaska and the Arctic. Review current vegetation inventory techniques used by federal and state agencies. Identify and sample Alaska forage plants. Examine range production systems and species in Alaska; domesticated and wild. Development of a high latitude range management plan.
Prerequisites: BIOL F104X; NRM F101.
Lecture + Lab + Other: 1.5 + 0 + 1.5
Grading System: Letter Grades with option of Plus/Minus

HLRM F150 Alaskan Ungulate Husbandry
2 Credits
Offered As Demand Warrants
Introduction to management skills, facilities design and nutritional needs for domesticated Alaskan ungulates. Provides exposure and examines traditional knowledge combined with contemporary research in herding and husbandry for open range and fenced systems. Field trips to reindeer, elk, bison, and/or cattle operations will demonstrate husbandry techniques and data collection procedures.
Prerequisites: HLRM F140.
Lecture + Lab + Other: 1.5 + 0 + 1.5
Grading System: Letter Grades with option of Plus/Minus

HLRM F160 Meat Production
2 Credits
Offered As Demand Warrants
Study of meat animal processing sequence. Production of meat-type domesticated ungulates in Alaska science and technology of their conversion to food, value-added products and by-products. Review of the current state regulations and methods on proper field slaughtering, and the preparation, handling and storage of meat will be introduced.
Prerequisites: HLRM F140.
Lecture + Lab + Other: 1.5 + 0 + 1.5
Grading System: Letter Grades with option of Plus/Minus

HLRM F170 Health Issues in Domesticated Ungulates
2 Credits
Offered As Demand Warrants
Ruminant anatomy and physiology specific to high latitude ungulates. Overall health issues and problem solving techniques for domesticated and food animal ungulates, including a review of indicators for disease or parasitic infections, vaccination and Rx treatments, field necropsy techniques and blood and tissue collection procedures. State monitoring and identification policies.
Prerequisites: HLRM F150.
Lecture + Lab + Other: 1.5 + 0 + 1.5
Grading System: Letter Grades with option of Plus/Minus

HLRM F201 Field Techniques for Range Management
2 Credits
Offered As Demand Warrants
Provides hands-on instruction in field and laboratory techniques in range evaluation for domesticated ungulates. Basic methods for sampling and studying grazing systems at the high latitudes will be introduced. Students will participate in data collection and analysis procedures as part of an independent research project.
Prerequisites: ABUS F155 or MATH F113X; HLRM F130; HLRM F140.
Lecture + Lab + Other: 1 + 3 + 0
Grading System: Letter Grades with option of Plus/Minus

HLRM F205 Report Writing in Range Management
2 Credits
Offered As Demand Warrants
Provides the basic technical reporting methods, writing, and research skills necessary to analyze, interpret, and document field and laboratory data. Incorporating field data collected in HLRM F201 and the skills, knowledge, and techniques learned in other required courses, the student will produce a written technical report and make a presentation.
Prerequisites: WRTG F111X; HLRM F201.
Lecture + Lab + Other: 2 + 0 + 0
Grading System: Letter Grades with option of Plus/Minus

HLRM F250 High Latitude Range Management Current Topics
1-3 Credits
Offered As Demand Warrants
Various topics of current interest in High Latitude Range Management. Topics announced prior to each offering and course may be repeated for credit.
Lecture + Lab + Other: 1-3 + 0 + 0
Grading System: Letter Grades with option of Plus/Minus
Repeatable for Credit: May be taken 3 times for up to 9 credits