UNIVERSITY OF ALASKA FAIRBANKS
Student Learning Outcomes Assessment Plan
High Latitude Range Management
Northwest Campus Nome
May 24, 2013

Expanded Statement of Institutional Purpose	Intended Objectives/Outcomes	Assessment Criteria and Procedures	Implementation (what, when, who)
MISSION STATEMENT:	To prepare students for entry-level employment in the field of natural resources that contributes to an educated Alaskan workforce	Proportion of graduates employed in natural resources (natural resources in general or employed in jobs related to high latitude range management?) What proportion and what would success look like in that proportion?	100% of HLRM graduates (1) have been employed in natural resources field (in what capacity, and is that the targeted outcome?) Why not more? This states historical data. What is being implemented to ensure future success? Who is implementing? When? Why?
GOAL STATEMENT:	To prepare students for advanced university coursework in an associate or baccalaureate program or other science coursework.	Participate in formal lecture and laboratory sessions with required in class attendance and participation. Homework (reading) assignments are given that requires each student to give next day in-class presentation. Quizzes are given that require real time oral and written responses. Comprehensive final exams demonstrating mastering of the subject. Attendance and participation will be documented daily by instructor. Quizzes will be immediately graded and discussed in class. Instructor will meet one on one with students that do not meet assessment criteria to develop remedial strategy. Seventy percent of all students will score at least 70% on cumulative total of all criteria.	What has the faculty found in terms of successfully achieving the middle column? What changes are going to occur to the program to improve that record of achievement? By when?
	To gain a broad understanding and perspective on range management principles for high latitude systems. (Knowledge based) Students will demonstrate mastery in basic range management	Instrument**:** Homework assignments, quizzes and comprehensive final exam Rubric: Mastery of Range Management Principles outlined in Chapters 5-15 Range Management Principles and Practices (eds Holechek, Pieper & Herbel)	Based on findings of student performance, what did you find lacking in reaching these goals of learning? Why do you think that was the outcome? What changes are being implemented to

Submitted by:

	terminology, ruminant taxonomy and evolution, tundra and arctic ecosystems, physical characteristics of high latitude range on the Seward Peninsula, identify and classify Alaskan forage plants by family and species, explain forage plant digestibility, explain the similarities and differences between various range production systems in Alaska (caribou, moose, reindeer)	Min. Standard: 70% of students meet or exceed expectations Seventy percent of all students will score at least 70% or better on cumulative total of homework and exams. Of the knowledge based criteria students will achieve mastery of a minimum of 80%	improve the quality and consistency of the instruction? Who is doing that? By when?
	To be knowledgeable in the science, and regulation along with acquiring technical skills in slaughtering and cutting of Alaskan red meat. Students will demonstrate mastery in meat science terminology, the physiology and biochemistry of muscle as a food, factors affecting meat quality in high latitude regions, state and federal slaughterhouse regulations factors that influence meat quality, discriminate between cuts and quality of meat during butchering, proper meat handling, wrapping, storing and various preparation techniques	Instrument**:** Homework assignments, quizzes and comprehensive final exam. Lab practical exam emphasizing meat cutting and cooking skills Rubric: Mastery of Meat Science principles outlined in Chapters 2-10 Principles of Meat Science. Teaching module Game meat processing DVD produced by CES, NWC, RRP Min. Standard: 70% of students meet or exceed expectations Seventy percent of all students will score at least 70% or better on cumulative total of homework and exams. Students will achieve mastery of a minimum of 80% of the knowledge based criteria . Students will achieve mastery of a minimum of 100% of the technical based criteria	Same set of questions as in the box above. Who collected the data to see if the learning promised was the learning that was achieved? Based on the findings, what changes are going to be occurring in the program to make the benchmarks of success more attainable?

	To be knowledgeable and develop technical skills in health issues related to domesticated ungulates, both farmed and free-ranging, in Alaska Identify features of ungulate anatomy and physiology. Differentiate between the transmission, diagnosis and control of diseases and parasites common to or potentially problematic to Alaskan livestock.	Instrument**:** Homework assignments, quizzes and comprehensive final exam. Lab practical exam emphasizing technical skills in basic veterinary care and animal first aid. Rubric: Mastery of Principles in the Reindeer Health Aid Manual Min. Standard: 70% of students meet or exceed expectations	And the same for this box as the two above.

Submitted by:

	Differentiate between the transmission, diagnosis and control of diseases and parasites common to or potentially problematic to Alaskan ungulates To be knowledgeable in the benefits of preventative medicine for domesticate livestock. Recognize signs and symptoms of common injuries and/or diseases. Identify indicators of disease or parasitic infections. To be knowledgeable in the body response to bacteria, viruses and vaccinations To have the knowledge of dosage, timing of administration, and the technical skills to vaccinate, treat meat animals. To have the knowledge to assist and interpret results from afield necropsy. To know the state of Alaska and federal disease certification and animal monitoring programs and the impact on the Alaskan livestock industry. Use critical thinking to understand environmental problems and discoveries Design a research project based on demonstrated development of a range management plan Understand the concepts of field and laboratory techniques for range management Conduct multiple range sampling methods Collect data for development of a range management plan Operate scientific equipment in field conditions Use laboratory equipment for analysis of forage samples Collect and interpret quantitative data Demonstrate field safety procedures	Seventy percent of all students will score at least 70% or better on cumulative total of homework and exams. Students will achieve mastery of a minimum of 80% of the knowledge based criteria. Students will achieve mastery of a minimum of 100% of the technical based criteria Instrument**:** Homework assignments, quizzes and comprehensive final exam. Lab practical exam emphasizing technical skills in basic veterinary care and animal first aid. Rubric: Measuring and Monitoring Plant Populations. U.S. Department of the Interior. Bureau of Land Management Technical Reference 1730-1. Available from: www.blm.gov/nstc/library/pdf/MeasAndMon.pdf	

Submitted by:

		Min. Standard: 70% of students meet or exceed expectations Seventy percent of all students will score at least 70% or better on cumulative total of homework and exams. Students will achieve mastery of a minimum of 80% of the knowledge based criteria. Students will achieve mastery of a minimum of 100% of the technical based criteria	

Submitted by: