

Environmental Studies Certificate Program Review

1. Current list of outcomes assessment plan and summary

Student Learning Outcomes Assessment

Environmental Studies (ENVI) Certificate,

The ENVI program was approved by the University of Alaska Board of Regents in Fall 2009 is administered at the University of Alaska Fairbanks Bristol Bay Campus and coordinated by Dr Todd Radenbaugh. Other key personnel include Dr. Tom Marsik (Assistant Professor Sustainable Energy), Chet Chambers, and Lilly Capell (Research Technicians). The majority of the ENVI classes for this certificate are taught by Drs Radenbaugh and Marsik, but adjunct faculty are hired as needed.

Current Outcome Assessment Plan for Environmental Studies

Expanded Statement of Institutional Purpose	Intended Objectives/Outcomes	Assessment Criteria and Procedures	Implementation (what, when, who)
<p>MISSION STATEMENT: The Environmental Studies Certificate (ENVI) at UAF's College of Rural & Community Development, Bristol Bay Campus provides rural students with quality academic instruction and training responsive to local needs. This program will help empower students and their communities to adapt to the overwhelming social, ecological, and economic changes presently occurring while protecting and enriching Alaska Native culture.</p> <p>GOAL STATEMENT: ENVI Certificate holders learn the necessary interdisciplinary skills needed for general laboratory and field-based work in the environmental sciences such as inventorying and monitoring environmental conditions. Further, the program combines these contemporary scientific studies with traditional knowledge to better prepare graduates for rural entry-level natural resources jobs statewide or to continue their formal education in the natural sciences, resource policy, or administration.</p>	1. Students completing the Environmental Studies Certificate will be prepared academically and vocationally for entry-level employment in the field of natural resources and environmental science.	1a. Assessment of Directed Individual Study (capstone project) as a product of coursework (primarily ENVI 101, 260, and 265). 1b. Individual student Learning Outcomes Assessment Rubric 1c. Employer perception of interns and student hires	1a. Assessment by instructor of ENVI 265 capstone research project 1b. Rubric completed by ENVI Program Coordinator 1c. Survey of ENVI student interns and employers
	2. Students completing the ENVI Certificate will be prepared to advance into a science or policy related Associate or Baccalaureate program or other undergraduate course work in the sciences.	2a. Assessment of Directed Individual Study (capstone project) as a product of coursework (primarily ENVI 101, 260, and 265). 2b. Individual student Learning Outcomes Assessment Rubric (see following page) 2c. Employer perception of interns and student hires	2a. Assessment by instructor of ENVI 265 2b. Rubric completed by ENVI Program Coordinator 2c. Survey conducted by ENVI student employer.
	3. Students completing the ENVI Certificate program will develop basic academic skills and gain essential knowledge in environmental science that is integrated with a local environmental perspective.	3a. Student interest/desire to work in rural Alaska based on exit interview	3.a Exit interview conducted by ENVI Program Coordinator

Rubric Summary of All ENVI Students (number of graduates = 2)

Outcomes	Expectations	Average Rating
Academic Performance - Accumulated student GPA in core courses and electives	A Grade Point Average of 'C' (2.0) or above in ENVI Certificate courses (Rating scale: C=1, B=2, A=3)	2.5
Directed Individual Project (Capstone Project) <ul style="list-style-type: none"> Learn the basic scientific reporting methods and research skills necessary to 	Satisfactorily completed environmental science investigation (Directed Individual Study - ENVI 265) involving literature search, data collection, analysis and reporting.	2.5

analyze, interpret, and document field and laboratory data.		
Academic Involvement <ul style="list-style-type: none"> Participation above and beyond academic course work 	Actively debates topics in environmental science during class or community events Presents oral or poster presentations at academic conferences or meetings Participate in environmental science internships.	3
Cooperative Learning <ul style="list-style-type: none"> Reflective and open to feedback from others Motivated to work with others on projects Eager to learn from others 	Complete projects with other students Willingness to involve other students in independent research projects Cooperative behavior indicated in internships or job performance.	3
General Conceptual Understanding of Environmental Science <ul style="list-style-type: none"> Dedicated to being a “lifelong student” Professional and ethical behavior Flexible in their thinking and exhibit creative ideas 	Reads environmental science literature Attends environmental science conferences Join professional associations	2.5
Job Preparedness <ul style="list-style-type: none"> The student acquired the necessary skills for entry-level natural resources or environmental science career. 	Students have: <ul style="list-style-type: none"> Received environmentally related internship or Interviewed for an environmental science job or Successfully employed in an environmental science job 	3
Score (Total =18, score greater than 13 or 70% suggests learning objectives for student were met)		15.5

Rating: Scale

0 = student does not exhibits this characteristic

1 = student rarely exhibits this characteristic

2 = student occasionally exhibits this characteristic

3 = student typically exhibits this characteristic