### APPENDIX A

**UNIVERSITY OF ALASKA FAIRBANKS**  
Student Learning Outcomes Assessment  
Environmental Studies (ENVI) AAS Program

<table>
<thead>
<tr>
<th>Expanded Statement of Institutional Purpose</th>
<th>Intended Objectives/Outcomes</th>
<th>Assessment Criteria and Procedures</th>
<th>Implementation</th>
</tr>
</thead>
</table>
| **MISSION STATEMENT:** The Environmental Studies AAS Program (ENVI) of UAF’s College of Rural and Community Development will provide students with quality academic instruction and training responsive to regional 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 regional Alaska Native culture. | 1. Students completing the ENVI AAS degree will be prepared academically and vocationally for entry-level employment in environmental studies in Alaska.  
2. Students completing the ENVI AAS degree will be prepared to advance into a science, engineering, or policy related baccalaureate program or other related course work. | 1. Graduates will meet expectations as defined in the Individual Environmental Studies AAS Learning Outcome Assessment Rubric (see attached)  
2. Graduates will express overall satisfaction via a post graduation survey.  
3. Students satisfaction will be used in program evaluation  
4. 80% of AAS graduates will continue educational path or seek employment in related field | 1. Annually complete Environmental Studies Learning Outcome Assessment Rubric for each graduate  
2. Student performance data recorded, synthesized and reported to program faculty  
3. Annually perform survey of graduates from preceding year compiled and reported to program faculty  
4. Faculty use compiled information to improve program and add educational or employment opportunities  
5. Program faculty and admin determine students success in obtaining additional education or employment in related field |
## Individual Assessment Sheet

### Environmental Studies (ENVI) Learning Outcome Assessment Rubric

<table>
<thead>
<tr>
<th>Outcomes</th>
<th>Expectations</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Academic Performance</strong> - Accumulated student GPA in core courses and electives</td>
<td>A Grade Point Average of “C” (2.0) or above in ENVI Certificate courses (Rating scale: C=1, B=2, A=3)</td>
<td></td>
</tr>
<tr>
<td><strong>Directed Individual Project (Capstone Project)</strong></td>
<td>• Learn the basic scientific reporting methods and research skills necessary to analyze, interpret, and document field and laboratory data.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Satisfactorily completed environmental science investigation (Directed Individual Study - ENVI 265) involving literature search, data collection, analysis and reporting.</td>
<td></td>
</tr>
<tr>
<td><strong>Academic Involvement</strong></td>
<td>• Participation above and beyond academic course work</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Actively debates topics in environmental science during class or community events</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Presents oral or poster presentations at academic conferences or meetings</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Participate in environmental science internships.</td>
<td></td>
</tr>
<tr>
<td><strong>Cooperative Learning</strong></td>
<td>• Reflective and open to feedback from others</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Complete projects with other students</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Willingness to involve other students in independent research projects</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Cooperative behavior indicated in internships or job performance.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Motivated to work with others on projects</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Eager to learn from others</td>
<td></td>
</tr>
<tr>
<td><strong>General Conceptual Understanding of Environmental Science</strong></td>
<td>• Dedicated to being a “lifelong student”</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Professional and ethical behavior</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Flexible in their thinking and exhibit creative ideas</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Reads environmental science literature</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Attends environmental science conferences</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Join professional associations</td>
<td></td>
</tr>
<tr>
<td><strong>Job Preparedness</strong></td>
<td>• The student acquired the necessary skills for entry-level natural resources or environmental science career.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Students have:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Received environmentally related internship or</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Interviewed for an environmental science job or</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Successfully employed in an environmental science job</td>
<td></td>
</tr>
</tbody>
</table>

**Score** (Total =18, score greater than 13 or 70% suggests learning objectives for student were met)

### Rating: Scale

- 0 = student does not exhibit this characteristic
- 1 = student rarely exhibits this characteristic
- 2 = student occasionally exhibits this characteristic
- 3 = student typically exhibits this characteristic
Environmental Studies AAS Degree
University of Alaska Fairbanks

Admission Requirements
- is at least 18 years old
- has a high school diploma
- has a General Education Development Diploma

AAS Degree Pathway

General Requirements
- 15 credits
  - Communications (written, 6 credits)
  - oral (3 credits)
  - Computational (3 credits)
  - Human Relations (3 credits)

Major Specialty
- 26-30 credits
  - Tracks
    - Ecosystem Health
    - Sustainable Energy

Electives
- 15-19 Credits

Final Credit Check

UAF Feeder Programs
- Certificates
  - Construction Trades Tech
  - Environmental Studies
  - Ethnobotany
  - High Lat Range Mgmt
  - Veterinary Science
  - Occup. Endorsements
  - Sustainable Energy
  - Rural Human Services

Educational Toolbox
- Library
- IT Help Desk
- Advising
- English and Math Tutors
- Science Lab Intensives
- e-Learning Help Desk

Examples of Continued Education and Occupations
- Enroll in bachelor's degree
- Lab or field technician
- Policy analyst
- Tribal environmental coordinator
- Renewable energy systems expert
- Naturalist/park ranger

Expectations and Course Related Outcomes:
- College-level knowledge and skills in critical thinking, quantitative analysis, and written composition.
- College-level understanding of environmental studies.
- Demonstrate oral and written communication, teamwork and collaboration skills.
- Design and conduct experiments, as well as analyze and interpret data.
- Practice methods of inquiry for mathematics and natural and energy sciences.
- Understand the interdisciplinary and multicultural nature of knowledge.
- Demonstrate academic honesty and ethical behavior.
- Appreciate and apply knowledge of science in the