## Environmental Studies (ENVI)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
<th>Offered</th>
<th>Prerequisites</th>
<th>Lecture + Lab + Other:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVI F101</td>
<td>Introduction to Environmental Science</td>
<td>3</td>
<td>Spring</td>
<td>F100-level biology, chemistry or geology class.</td>
<td>1 + 0 + 0</td>
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<tr>
<td>ENVI F110</td>
<td>Introduction to Water Quality I: Measurement</td>
<td>1</td>
<td>Spring</td>
<td>ENVI F110</td>
<td>1 + 0 + 0</td>
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<tr>
<td>ENVI F111</td>
<td>Introduction to Water Quality II: Monitoring and Assessment</td>
<td>1</td>
<td>As Demand Warrants</td>
<td>ENVI F110</td>
<td>0.5 + 0 + 1.5</td>
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<tr>
<td>ENVI F112</td>
<td>Introduction to Water Quality III: Data Quality Assurance</td>
<td>1</td>
<td>As Demand Warrants</td>
<td>ENVI F111</td>
<td>1 + 0 + 0</td>
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<tr>
<td>ENVI F115</td>
<td>Rural Solid and Hazardous Waste Management</td>
<td>1</td>
<td>As Demand Warrants</td>
<td>ENVI F110, ENVI F111</td>
<td>1 + 0 + 0</td>
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<tr>
<td>ENVI F116</td>
<td>Rural Alaska Landfill Operator</td>
<td>1</td>
<td>As Demand Warrants</td>
<td>ENVI F110, ENVI F111</td>
<td>1 + 0 + 0</td>
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<tr>
<td>ENVI F117</td>
<td>Community Spill Response</td>
<td>1</td>
<td>As Demand Warrants</td>
<td>ENVI F110, ENVI F111</td>
<td>1 + 0 + 0</td>
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<tr>
<td>ENVI F120</td>
<td>Home Energy Basics</td>
<td>1</td>
<td>Fall</td>
<td>ENVI F110, ENVI F111</td>
<td>1 + 0 + 0</td>
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<tr>
<td>ENVI F121</td>
<td>Building Ventilation and Energy</td>
<td>1</td>
<td>Spring</td>
<td>ENVI F110, ENVI F111</td>
<td>1 + 0 + 0</td>
</tr>
<tr>
<td>ENVI F122</td>
<td>Energy Efficient Building Design and Simulation</td>
<td>1</td>
<td>Spring</td>
<td>ENVI F110, ENVI F111</td>
<td>1 + 0 + 0</td>
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</table>
ENVI F130  Introduction to the National Environmental Policy Act  
1 Credit  
Offered Spring  
Provides a brief introduction to the National Environmental Policy Act (NEPA). This course will explain what community members need to do to be heard in the NEPA process with special emphasis on public involvement and Environmental Impact Analysis (EIA). The course covers the roles and the content of scoping and Environmental Assessments in relation to key natural resource development projects in rural Alaska.  
Lecture + Lab + Other: 1 + 0 + 0

ENVI F150  Viewpoints in Environmental Studies  
1 Credit  
Offered As Demand Warrants  
Discussions and activities will focus on how scientists or research technicians evaluate environmental issues. The course is intended for first year college students and community members. Specific topics may include sustainability, resource development, ecosystem management, indigenous viewpoints, building technology, appropriate energy applications, and analysis of data. Topics announced prior to each offering and course may be repeated for credit towards a certificate or degree program to a maximum of 3 credits.  
Lecture + Lab + Other: 1 + 0 + 0

ENVI F160  Internship in Environmental Studies  
1-2 Credits  
Offered As Demand Warrants  
Under the guidance of a UAF Bristol Bay Campus-approved agency or business (public or private that monitors, tests, analyzes or studies the environment), students gain supervised pre-professional experience in environmental studies. The intern will explore the interdisciplinary aspects of field or laboratory research, build practical expertise and make contacts. Internships make one to ten weeks of full-time commitment to the agency or business and when completed make public presentations on the experience.  
Prerequisites: ENVI F101.  
Lecture + Lab + Other: 0 + 0 + 3.1-15.4

ENVI F220  Introduction to Sustainable Energy  
3 Credits  
Offered Fall  
Introduction to societal problems and solutions related to its energy use and production. Problems discussed are mainly related to the extent of sustainability of current energy practices. Solutions discussed cover both energy efficiency and renewable energy.  
Prerequisites: DEVM F105 or CTT F106 or TTCH F131.  
Recommended: ENVI F101; ENVI F120.  
Lecture + Lab + Other: 3 + 0 + 0

ENVI F250  Current Topics in Environmental Studies  
1-3 Credits  
Offered As Demand Warrants  
Using multiple scientific viewpoints, a specific environmental issue is explored through case studies and in-depth discussions with an emphasis on complex connections between ecosystems and society. Themes include sustainability, resource development, indigenous viewpoints, resource management, building technology, and energy applications. Topics announced prior to each offering and course may be repeated for credit towards a certificate or degree program to a maximum of 3 credits.  
Prerequisites: ENVI F101; WRTG F111X; 100-level science class.  
Lecture + Lab + Other: 3 + 0 + 0

ENVI F260  Field Techniques for Environmental Technicians  
2 Credits  
Offered Summer  
Provides hands-on instruction in interdisciplinary field and laboratory techniques used by environmental technicians. Basic methods for sampling and studying terrestrial or aquatic ecosystems will be introduced. Students will participate in data collection and analysis procedures as part of an independent research project.  
Prerequisites: ENVI F101 or NRM F101; ENVI F110; 4 credit lab-based F100-science course.  
Recommended: CIOS F100; CIOS F135.  
Lecture + Lab + Other: 1 + 3 + 0

ENVI F265  Introduction to Methods in Environmental Studies Reporting  
2 Credits  
Offered Fall  
Introduces basic data collection methods used in environmental studies then concentrates on research skills necessary to analyze, interpret, and document field and laboratory data and the technical reporting processes. The course is designed to integrate raw environmental data into a technical report covered include ecosystem functions, energy, biodiversity, that can be presented in scientific meeting format.  
Prerequisites: ENVI F101 or NRM F101; ENVI F110; ENVI F260; a lab-based F100 level science course.  
Recommended: ENGL F104 or WRTG F111X; ENVI F160.  
Lecture + Lab + Other: 1.5 + 0 + 1.5