O.E.C., SUSTAINABLE ENERGY

Occupational Endorsement

Providing education and training in energy efficiency and renewable energy, the sustainable energy occupational endorsement addresses many of the energy issues that influence Alaska communities and provides the basic academic preparation for entry-level sustainable energy careers. It also serves as a steppingstone into science- and engineering-related certificate, associate or bachelor's programs.

The program is structured as 6 credits of foundation knowledge and a minimum of 6 credit electives that allow students (in consultation with their advisor) to specialize in specific areas of sustainable energy. Some examples of how the electives can be formed into specific areas of study follow. Applicants must be 16 years old to be admitted.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENVI F101</td>
<td>Introduction to Environmental Science</td>
<td>3</td>
</tr>
<tr>
<td>PHYS F102X</td>
<td>Energy and Society</td>
<td>4</td>
</tr>
<tr>
<td>CTT F100</td>
<td>Construction Technology Core</td>
<td>3</td>
</tr>
<tr>
<td>CTT F160</td>
<td>Photovoltaic Systems I</td>
<td>5</td>
</tr>
<tr>
<td>CTT F161</td>
<td>Photovoltaic Systems II</td>
<td>5</td>
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<td>CTT F100</td>
<td>Construction Technology Core</td>
<td>3</td>
</tr>
<tr>
<td>CTT F250</td>
<td>Current Topics in Construction Trades</td>
<td>2</td>
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<td>ENVI F120</td>
<td>Home Energy Basics</td>
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<tr>
<td>CTT F100</td>
<td>Construction Technology Core</td>
<td>3</td>
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<tr>
<td>CTT F250</td>
<td>Current Topics in Construction Trades</td>
<td>1-3</td>
</tr>
<tr>
<td>ENVI F120</td>
<td>Home Energy Basics</td>
<td>1</td>
</tr>
</tbody>
</table>

Minimum Requirements for Sustainable Energy Occupational Endorsement: 12 credits

General University Requirements
Complete the general university requirements. (http://catalog.uaf.edu/endorsements/)

Occupational Endorsement Requirements
Complete the occupational endorsement requirements. (http://catalog.uaf.edu/endorsements/)

Sustainable Energy Program Requirements
ENVI F220 Introduction to Sustainable Energy 3
Complete one of the following: 3
CTT F106 Construction Measuring
MATH F105 Intermediate Algebra
TTCH F131 Mathematics for the Trades

Electives
Complete 6 credits from the following: 6
CT S201 Cold Climate Construction 1
CTT F100 Construction Technology Core
CTT F160 Photovoltaic Systems I
CTT F161 Photovoltaic Systems II
CTT F250 Current Topics in Construction Trades
ENVI F101 Introduction to Environmental Science
ENVI F120 Home Energy Basics
ENVI F121 Building Ventilation and Energy
ENVI F122 Energy Efficient Building Design and Simulation
PHYS F102X Energy and Society
RE A110 Introduction to Solar Photovoltaic Systems 2
RE A130 Introduction to Small Wind Systems 2
RE A150 Basics of Ground-Source Heat Pump Systems 2

or other, advisor-approved electives

1 CT S201 is offered by the University of Alaska Southeast.
2 RE A110, RE A130 and RE A150 are offered by the University of Alaska Anchorage.

College of Rural and Community Development (http://www.uaf.edu/rural/)
907-474-7143

Admission Requirements
Complete the following admission requirements:

• Be at least 16 years old by the first day of the semester in which you are admitted.

Program Requirements
Students must earn a C- or better in each course.