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>
</tr>
<tr>
<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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<tr>
<td>ENVI F120</td>
<td>Home Energy Basics</td>
<td>1</td>
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<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>
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<tr>
<td>ENVI F120</td>
<td>Home Energy Basics</td>
<td>1</td>
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<tr>
<td>CTT F100</td>
<td>Construction Technology Core</td>
<td>3</td>
</tr>
<tr>
<td>CT S201</td>
<td>Cold Climate Construction ^</td>
<td>3</td>
</tr>
</tbody>
</table>

Electives

Complete 6 credits from the following:

- CTT F106 Construction Measuring
- MATH F105 Intermediate Algebra
- TTCH F131 Mathematics for the Trades

Electives

Complete 6 credits from the following:

- ENVI F220 Introduction to Sustainable Energy | 3
- CT S201 Cold Climate Construction ^ | 3
- 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

Minimum Requirements for Sustainable Energy Occupational Endorsement: 12 credits

- ENVI F220 Introduction to Sustainable Energy | 3
- CT S201 Cold Climate Construction ^ | 3
- 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

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.

^ CT S201 is offered by the University of Alaska Southeast.

^ RE A110, RE A130 and RE A150 are offered by the University of Alaska Anchorage.