

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.

Code	Title	Credits
Energy Science		
ENVI F101	Introduction to Environmental Science	3
PHYS F102X	Energy and Society	4
Photovoltaic		
CTT F100	Construction Technology Core	3
CTT F160	Photovoltaic Systems I	5
CTT F161	Photovoltaic Systems II	5
Biomass		
CTT F100	Construction Technology Core	3
CTT F250	Current Topics in Construction Trades	2
ENVI F120	Home Energy Basics	1
Wind		
CTT F100	Construction Technology Core	3
CTT F250	Current Topics in Construction Trades	1-3
ENVI F120	Home Energy Basics	1
Energy-Efficient Construction		
CTT F100	Construction Technology Core	3
CT S201	Cold Climate Construction ¹	3
Other		
Other areas of study related to sustainable energy		

¹ CT S201 is offered by the University of Alaska Southeast.

Minimum Requirements for Sustainable Energy Occupational Endorsement: 12 credits

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.

Minimum Requirements for Sustainable Energy Occupational Endorsement: 12 credits

Code	Title	Credits
General University Requirements		
Complete the general university requirements. (https://catalog.uaf.edu/archives/2020-2021/endorsements/)		
Occupational Endorsement Requirements		
Complete the occupational endorsement requirements. (https://catalog.uaf.edu/archives/2020-2021/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.