



For more than 30 years the Lane Energy Management Program has been a national leader for curriculum, courses, and activities, preparing hundreds of undergraduate students and professionals for jobs and careers in the energy field.

The Energy Management program is a rigorous two-year Associate of Applied Science degree that trains individuals to evaluate energy use patterns; develop, implement, market and maintain conservation programs; perform public outreach; recommend energy efficiency techniques; integrate alternative energy sources; and perform systems analysis to solve problems.

Students learn to apply basic physics and analytical techniques to measure and define energy use of today's building systems with the goal of evaluating and recommending alternative energy solutions that will result in greater energy efficiency and lower energy costs.

*Earn \$38,000-45,000 annually while helping to create a positive change within our built environment*

As energy related issues continue to increase, more voluntary and mandatory energy conservation opportunities are being created that require a technical skill set like that which is offered through the program.

**EXPLORING THE BUILT ENVIRONMENT**  
Students are exposed to a multitude of building system types and configurations through the extensive use of tours and internship opportunities.



**Application or Additional Information**

**Roger Ebbage** - Program Director  
(541) 463-6160 | ebbager@lanecc.edu

**Lane Community College**  
Downtown Campus | 101 West 10th Ave  
Eugene, Oregon 97401



NWEEI provides professional development opportunities throughout the Northwest, Nationally and Internationally.

This information is available in alternate formats upon request by contacting Disability Services at (541) 463-5150 (voice), (541) 463-3079 (TTY), or disability.services@lanecc.edu (email).

Lane Community College is an equal opportunity/affirmative action institution.

[www.nweei.org](http://www.nweei.org)

 **Energy Management Program**

**Two Year Associate of Applied Science Degree**

We provide a comprehensive technical education that prepares graduates to evaluate commercial building energy usage with the goal of saving energy, money and natural resources.



## Graduates Of The Program Are Able To



- » Evaluate energy use patterns of residential and commercial buildings.
- » Recommend energy efficiency and renewable energy solutions for high energy consuming buildings.
- » Understand the interaction between energy consuming building systems and based on that understanding make energy consumption recommendations.
- » Produce energy evaluation technical reports and make presentations leading to project implementation.
- » Develop and evaluate inferences and predictions that are based on collected data.
- » Read and analyze building blue prints including floor, mechanical, and electrical plans.
- » Use problem-solving techniques & mathematics to transform concepts into energy related projects.

Buildings consume 70% of all the electricity produced in the U.S. Advancing energy efficiency in buildings is a critical component of a secure, economically advantageous energy balance leading toward a more sustainable future.

### *Our Goal is Your Success!*

After completing the program, your goal will be employment and we take that very seriously. We continually seek out and participate in local, regional, and national networking opportunities for one simple reason - to promote our students directly to those who have the ability to provide jobs.

By providing you with a quality education built around an industry approved job task analysis we are extremely confident that you will be successful.

Graduates find employment in a wide variety of disciplines and may work for such diverse employers as engineering firms, lighting companies, public and private utilities, energy equipment companies, and departments of energy.

### Some relevant job titles are:

- Energy Program**  
Specialist, Manager, Coordinator
- Energy**  
Auditor, Analyst, Specialist
- Commissioning Technician**
- Facility Manager**
- Control System Specialist**
- Building Operator**
- Weatherization Installer and Technician**



*“If someone asked us to guess how much time it’ll take to get to the store, or how much a car weighs, or how tall a house is, we’ll probably be pretty close. But ask us about energy, and we can be wrong by many orders of magnitude.”*

(Clark Williams-Derry, Sightline Institute)

Jon Wiener AIA, LEED AP at SRG points out a few energy saving features within a newly built high performance classroom located on Lane Community College campus.

Note: Required Cooperative Education internships may also be taken during the summer (a maximum of 18 co-op credits).

Prerequisites are required for some courses. Up to date course descriptions are located in the Lane Community College Annual College Class Catalog.

1. Must be completed during first year.
2. Physical Education Activity/Health requirement: 3 credits total.
3. Human Relations/Social Science requirement: 3 credits total.
4. Directed electives to be arranged with program advisor.

## Degree Overview

The classes listed below are subject to change. For the most current information, see AAS degree requirements within Lane Community College’s annual catalog.

### YEAR 1 CLASSES

FALL TERM	CREDITS
Microsoft Excel for Business	4
Blueprint Reading: Residential & Commercial	3
College Algebra (MTH 111) <sup>1</sup>	5
Introduction to Energy Management	3
Sustainability in the Built Environment	3
Fundamentals of Physics (PH 101)	4
<b>Total</b>	<b>22</b>

WINTER TERM	CREDITS
Residential/Light Commercial Energy Analysis	3
Alternative Energy Technologies	3
Co-op Ed: Energy Conservation Seminar	1
Fundamentals of Physics (PH 102)	4
Introduction to Academic Writing	4
Human Relations at Work <sup>3</sup>	3
<b>Total</b>	<b>18</b>

SPRING TERM	CREDITS
Air Conditioning Systems Analysis (NRG 121)	3
Energy Efficient Methods	4
Lighting Fundamentals	3
Technical Writing	4
<b>Total</b>	<b>14</b>

### YEAR 2 CLASSES

FALL TERM	CREDITS
Commercial Air Conditioning Systems Analysis (NRG 122)	3
Lighting Applications	3
Energy Investment Analysis	3
Directed Electives <sup>4</sup>	3
Physical Education/Health Requirements <sup>2</sup>	1-3
<b>Total</b>	<b>13-15</b>

WINTER TERM	CREDITS
Commercial Energy Use Analysis	4
Energy Control Strategies	4
Co-op Ed: Energy Management Seminar 2	1
Physical Education/Health Requirements <sup>2</sup>	1-3
Directed Electives <sup>4</sup>	3
<b>Total</b>	<b>13-16</b>

SPRING TERM	CREDITS
Building Energy Simulations	4
Energy Accounting	3
Co-op Ed: Energy Management	6
<b>Total</b>	<b>13</b>

## Sign Up For The Program. It’s Easy!

Fill out a simplified one page application. A high school diploma (or equivalent) and Math 70 (Basic Algebra) is all that is required for entry.

Additional details online at:  
<http://www.nweei.org>