

# Energy Services & Technology

**T**he Energy Services and Technology Program (ESTP) will provide students with the knowledge and skills to enter the rapidly expanding field of energy services and technologies. Students will be prepared to utilize knowledge and skills gained in the areas of energy fuels and consumption, energy efficiency, energy economics, electricity, HVAC, technical communications, computer sciences, to optimize the production, delivery, and use of energy resources.

Graduates of the program will be prepared to enter into a variety of energy management and technological fields such as Energy Auditor, Energy Analyst, Building Operator, Resource conservation Manager, measurement and Verification Technician, Technical Service Representative, and many other related professions.

## Energy Matters

Our homes and businesses contribute 10.3 % of annual greenhouse emissions. Changing our habits is one of the simplest ways to conserve energy.

Changing our habits is one of the simplest ways to conserve energy. Simple changes that will make noticeable differences are:

- Replacing light bulbs in the fixtures you use most
- Replacing electric appliances with ones that use gas and/or those with an Energy Star rating.
- Adding insulated curtains can cut cooling cost in the summer (keep curtains closed to prevent heat gain during the day) and heating cost in winter (close curtains at sun down to prevent heat loss).
- Make sure your home is air tight around doors and windows and insulate hot water pipes.



## The Job Market

### Top 6 Occupations in Energy Services

- Energy Auditor
- Energy Analyst
- Building Operator/Building Technician
- Resource Conservation/Efficiency Manager
- Measurement & Verification Technician
- Systems Technician

## Get a Start on Your Future

- LRCC's Energy Services program is one of a kind in New England
- We train people on the newest equipment, next years technology
- Cooperative education gives you real world experience
- Close to home, lower tuition—LRCC is a smart choice



[www.lrcc.edu](http://www.lrcc.edu)

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# 2010-2011 Energy Services & Technology Associate in Science Degree

## First Year

<b>Fall Semester</b>	<b>CL LAB CR</b>
LENG1200 College Composition	3 0 3
LEST1150 Renewable Energy Sources	2 2 3
LEST1600 Building Materials Overview	3 0 3
MATH ELECTIVE	3 0 3
SOCIAL SCIENCE ELECTIVE	3 0 3
<b>Totals</b>	<b>14/15 2 15/16</b>

<b>Spring Semester</b>	<b>CL LAB CR</b>
LEST1250 Energy Efficiency and Conservation Methods	3 0 3
LEST1300 Spreadsheets, Reading Drawings & Blueprints	3 0 3
LEST1140 Basic Electricity	3 0 3
LEST1175 Introduction to Residential Energy	2 2 3
LSCI1210 Chemistry	3 0 3
OR	
LSCI1370 Principles of Physics	3 2 4
OR	
LSCI1500 Environmental Science	3 2 4
LIBERAL ARTS ELECTIVE	3 0 3
<b>Totals</b>	<b>16/17 4 18/19</b>

**Total Credits for Year = 33/35**

## SECOND YEAR

<b>Fall Semester</b>	<b>CL LAB CR</b>
LENG1220 Technical Communications	3 0 3
LEST2100 Heating Systems	2 2 3
LEST2200 Cooling Systems	2 2 3
LEST2250 Indoor Air Quality	3 0 3
LEST2300 Lighting and Electric Economics	3 0 3
HUMANITIES ELECTIVE	3 0 3
<b>Totals</b>	<b>16 4 18</b>

<b>Spring Semester</b>	<b>CL LAB CR</b>
LEST2400 Water Conservation and Hot Water	3 0 3
LEST2550 Electric Motors and Control Strategies	2 2 3
LEST2600 Overview of NH Utilities and Energy	3 0 3
LEST2750 Energy Analysis Capstone OR	2 2 3
LEST2800 Internship	0 9 3
LIBERAL ARTS ELECTIVE	3 0 3
<b>Totals</b>	<b>14 2/11 15</b>

**Total Credits for Year = 33**

**Total for A.S. Degree = 66/68**

## Want to Learn More?

If you would like to learn more about Lakes Region Community College and our Energy Services & Technology program you can.

- Request information by going online to [www.lrcc.edu](http://www.lrcc.edu) and clicking on "prospective students"
- Call the school to set up an appointment with Admissions or Energy Services faculty to see what we have to offer
- Stop by. Come by the school to see our facilities and talk to our students and teachers. Get your information first hand.



Graduates of the Energy Services Program will be able to:

- demonstrate an understanding of the theory and skill sets associated with the energy services profession;
- communicate and understand the technical vocabulary and jargon associated with the energy profession;
- attain and demonstrate a high level of professional integrity in the implementation of his/her technical skills;
- possess skills and attitudes to enable successful employment and upward mobility in the energy management profession.