Institute for Sustainable Technology

Spring 2009 Schedule of Courses

Sustainable Practices

Sustainable Development  EGY 7003

Sustainable development is an introductory course that explains the reasons to “go green”. Humanity must meet the needs of present generations without having a negative impact on resources for future generations. Learn about development strategies which ensure the well-being of humanity today and tomorrow by understanding and integrating a triple bottom line of social awareness, economic development, and environmental conservation and protection. Students will learn about the history, methods, vocabulary and real world practices associated with sustainable development.

Hudson  January 29th – February 19th  Baines  H133

Thursdays 6pm-8pm  $50

Watauga  April 16th – May 7th  Baines  WCEC 112

Thursdays 6pm-8pm  $50

Introduction to Sustainable Design – Level I

This course introduces concepts and principles related to sustainable site development and architectural design. Topics include low impact and sustainable site development, water efficiency, energy efficiency, material and resource management, indoor environmental quality, and return on investment. Upon completion, students should be able to articulate and integrate sustainable design principles into site and architectural design.

Online  February 2 – March 13  Brigham

$55
Construction Trades

Emerging Trends in High Performance Building  
EGY 7002

**Mondays once a month; cost is $55 for the entire series**

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Time</th>
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<tbody>
<tr>
<td>January 20</td>
<td>Air Flow Basics - Air barriers, mechanical ventilation, fire safety, indoor air quality issues</td>
<td>3pm – 5pm</td>
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<tr>
<td>February 9</td>
<td>Heat Flow Basics - Better insulation practices.</td>
<td>3pm – 5pm</td>
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<tr>
<td>March 9</td>
<td>Moisture Flow Basics - Vapor Diffusion Retarders, Relative Humidity, Controlling moisture</td>
<td>3pm – 5pm</td>
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<td>April 6</td>
<td>Closed Crawlspace/Unventilated Attics</td>
<td>3pm – 5pm</td>
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<tr>
<td>May 11</td>
<td>Testing for Performance - Blower doors, duct blasters, thermal cameras, Carbon Monoxide testing, Combustion Safety Testing, laser thermometers, pressure pan</td>
<td>3pm – 5pm</td>
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<tr>
<td>June 8</td>
<td>How to certify a building &quot;Green&quot; - A look at the available green building programs and how they work. How to become a &quot;green&quot; remodeler with the Building Performance Institute's [Building Analyst &amp; Envelope Specialist] certifications</td>
<td>3pm – 5pm</td>
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Renewable Energy Overview  
EGY 7008

**Saturdays once a month – Hudson Campus**  
9am-12pm  
$55

Learn about renewable energy with these Saturday morning classes. Each class will be geared toward a specific renewable energy source. These classes will give you an in-depth look at how each of the energy sources can benefit you and your clients. You may be surprised to learn that you could use one or more of these energy sources to supply power to your home or dwelling. Come to one class or attend them all. One price covers the entire series.

<table>
<thead>
<tr>
<th>Energy Source</th>
<th>Date</th>
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<tbody>
<tr>
<td>Solar PV</td>
<td>January 24</td>
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<tr>
<td>Solar Thermal Residential</td>
<td>February 28</td>
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<tr>
<td>Wind Residential</td>
<td>March 28</td>
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<tr>
<td>Geothermal HVAC</td>
<td>April 25</td>
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<tr>
<td>Microhydro</td>
<td>May 23</td>
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<tr>
<td>Biofuels</td>
<td>June 27</td>
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For your Business

Green 101 – Small Business  EGY 7000

This course will address simple methods to reduce energy consumption, reduce waste and improve the bottom-line by becoming more environmentally conscious in the small business work environment. Students will learn about aspects of Going Green they might not have considered before such as the importance of local sourcing and how it impacts our small businesses and our environment. Course addresses areas that would include self analysis of business in energy use or carbon footprint, water reduction methods, energy efficiency, green transportation, supporting local business and heritage, and how to effectively market your business once you adopt these sustainable methods.

Online Only*  
$55  
February 9th – March 16th  
Willis

Online Only*  
$55  
February 23rd – March 30th  
Willis

Online Only*  
$55  
March 9th – April 13th  
Willis

Online Only*  
$55  
March 23 – April 27th  
Willis

Online and Seated**  
$55  
January 26th – February 16th  
Seated Thursday Feb. 19 H133

FREE SBC Seminars

• Exploring Alternative Energy  
  Caldwell County Chamber of Commerce  
  February 5th  
  6-7pm  

• Green Certifications Overview  
  Boone  
  February 26  
  6-8pm