

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

Thursdays 6pm-8pm

\$50

January 29th – February 19th

Baines

H133

Watauga

Thursdays 6pm-8pm

\$50

April 16th – May 7th

Baines

WCEC 112

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

\$55

February 2 – March 13

Brigham

Construction Trades

Emerging Trends in High Performance Building

EGY 7002

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

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

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.

Solar PV	January 24
Solar Thermal Residential	February 28
Wind Residential	March 28
Geothermal HVAC	April 25
Microhydro	May 23
Biofuels	June 27

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.

<p><u>Online Only*</u> \$55</p>	<p>February 9th – March 16th Willis</p>
<p><u>Online Only*</u> \$55</p>	<p>February 23rd – March 30th Willis</p>
<p><u>Online Only*</u> \$55</p>	<p>March 9th – April 13th Willis</p>
<p><u>Online Only*</u> \$55</p>	<p>March 23 – April 27th Willis</p>
<p>Online and Seated** \$55</p>	<p>January 26th – February 16th Seated Thursday Feb. 19 H133</p>
<p>Online and Seated** \$55</p>	<p>February 23rd – March 23rd Seated Thursday Mar. 26 H133</p>

FREE SBC Seminars

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| <ul style="list-style-type: none"> • Exploring Alternative Energy
Caldwell County Chamber of Commerce | <p>February 5th</p> | <p>SBC-7180
6-7pm</p> |
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| <ul style="list-style-type: none"> • Green Certifications Overview | | <p>SBC-7181</p> |
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Hudson	February 24	6-8pm
Boone	February 26	6-8pm