

# Sustainable Energy - New Workshops!

## Thermal Window Inserts

**Instructor: Peter Talmage**

Cut heat loss through your windows in half this winter! Learn to build thermal panel inserts to double the insulation value of your windows.

Workshop provides a theoretical overview of how these inserts work, basics of air sealing and heat transfer, how glazing helps hold heat and key attributes of effective glazings. Participants will build a demonstration window insert during the workshop, including instruction on proper selection of materials and methods of air sealing.

**CSW 371-2: Thursday, 6:30-8:30pm  
September 24, 1 session, \$25**



## Solar Heating: Free Hot Air

**Instructor: Peter Talmage**

Heat your home by capturing energy from the sun with solar air panels. Workshop covers the basic science behind how these panels work, how much energy can be captured and cost effectiveness of installing them. Consider ready-made or do-it-yourself construction. The last hour will be spent assembling a model home-made solar thermal panel.

**CSW 370-2: Thursday, 6:30-8:30pm  
October 15, 1 session, \$25**

## Sustainable Landscape

### Design & Energy

**Instructor: Tom Benjamin**

Sustainable design addresses ecological, water, energy and food system links between buildings and their supporting sites. This workshop provides an introduction into green roofs, green walls, attractive rainwater collection systems, natural storm water treatment approaches, native planting and edible landscapes. Project examples will emphasize low maintenance landscape approaches that save water and energy while enhancing biodiversity opportunities.

**CSW 374-2: Tuesday, 6:00-9:00 pm  
October 27, 1 session, \$29**

## Practical Solar Hot Water Systems

**Instructor: Staff**

Considering a solar hot water heating system for your home or small business? This course will help you assess the economic and environmental benefits for your situation. Topics include choosing appropriate equipment, components and how they are assembled and function as well as state and federal tax incentives. Participants will learn how to assess a site for solar potential and size a system appropriately and cost effectively.

**CSW 368-2: Thursday, 6:00-9:00 pm,  
October 29, November 5, 12 & Saturday,  
9:00am-3:00pm, November 7  
15 hours, \$165**

## Simple Solar Hot Water Heaters

**Instructor: Peter Talmage**

Learn about 'batch' solar hot water heaters that can produce all of your hot water in the summer time at very low cost. Workshop explains underlying solar theory, the basic site assessment process and how to size a system for your hot water needs. The hands-on component covers design, materials and costs. Participants build a functioning model to learn construction techniques.

**CSW 372-2: Thursday, 6:30-8:30pm  
November 19, 1 session, \$25**



**GREENFIELD**  
Community College

**Workforce Development Program  
Registration Form**

**Sustainable Energy**

Check your choice of workshops

- Thermal Window Inserts, Sept. 24, \$25
- Solar Heating, Nov. 15, \$25
- Sust. Landscape, Nov. 27, \$29
- Solar Hot H2O Systems,  
Oct. 29, Nov. 5, 12 & 7, \$165
- Solar Hot H2O Heaters, Nov. 19, \$25

Name \_\_\_\_\_

Home Mailing Address \_\_\_\_\_

Email \_\_\_\_\_

Phone \_\_\_\_\_

Birthdate \_\_\_\_\_

Company \_\_\_\_\_

Payment required to register. Enclose check payable to GCC with registration to:

Attn: Karen Chastney  
Community Education  
Greenfield Community College  
One College Drive  
Greenfield, MA 01301

To pay by credit card call 413-775-1803

Or register online at:

[gcc.mass.edu/shopcreditfree](http://gcc.mass.edu/shopcreditfree)

**Sustainable Living/Energy**

**Community Education**

Greenfield Community College is now offering practical and condensed workshops in Renewable Energy and Energy Efficiency for the homeowner!

**Professional/Academic Programs**

For those interested in pursuing a career in the field, GCC currently offers a Certificate in Renewable Energy/Energy Efficiency. The Certificate in Renewable Energy/Energy Efficiency is designed to give students the knowledge and skills needed for entry-level employment and or for continued learning and education in the renewable energy/energy efficiency field. The Certificate provides students with the knowledge and skills needed for transfer into the associate's degree or four-year programs.

GCC is offering an Associate's Degree program as well. The Renewable Energy/Energy Efficiency program is made possible by the support of a WCTF grant.

**Sustainable  
Energy  
Workshops**



**Fall 2009**

**Community Education**  
Greenfield Community College  
270 Main Street  
Greenfield, MA 01301