

"This was an excellent course to gain exposure to the overall topics and issues involved with creating a sustainable home and everyone who is involved with the housing industry should go through this program and educate their clients on the benefits of sustainable building."

— Jennifer B. Pippin, Owner/Designer,
Pippin Home Design, Inc., Cornelius, NC

GREEN BUILDING

DIPLOMA SERIES

The diploma program for building professionals

- Earn recognition from a distinguished university
- Add a valuable credential to your career with non-degree diploma status
- Benefit from three convenient week-long courses to complete your Green Building Diploma
- Receive CEUs (Continuing Education Units), PDHs (Professional Development Hours) and AIA LUs (American Institute of Architects HSW and Sustainable Design qualified Learning Units)

Earn your Green Building Diploma by completing these three workshops:

(35 contact hours per workshop)

GB II: August 10–14, 2009

GB III: October 12–16, 2009

GB I: May 2010

or

Complete two GB workshops plus one week-long workshop from the Renewable Energy Technologies Diploma Series.

Brought to you by



In partnership with...



with State of North Carolina appropriated funds, in cooperation
with the North Carolina Solar Center at NC State University.

REGISTER TODAY!

On-line at ContinuingEducation.ncsu.edu/green_building_series.html,
Call **919.515.2261**, or Fax your registration form to **919.515.7614**.

Green Building Diploma Series

The North Carolina Solar Center at NC State University offers a Green Building Diploma Series (GBDS) tailored specifically for building professionals. The program provides the necessary skills and information to help architects, engineers, general contractors and other building professionals get involved with the rapidly growing market for high-performance and sustainable buildings in both the commercial and residential sectors.

Tailored similarly to the Renewable Energy Technologies Diploma Series (RETDS), the Green Building series requires that you complete 105 contact hours, or three week-long workshops, within three years. Two week-long workshops on commercial design and building will be offered in addition to the current residential workshop on *Designing and Building a Sustainable Home or Small Building*. You can earn AIA/HSW credits for the GBDS workshops, while PDHs will be offered for both RETDS and GBDS courses. All of the diploma series programs provide you with Continuing Education Units.

How to Complete Your Green Building Diploma

Complete three week-long Green Buildings workshops:

- *GB I: Designing and Building a Sustainable Home or Small Building (a.k.a. RE III)*
- *GB II: Designing and Building Commercial Green Buildings 1*
- *GB III: Designing and Building Commercial Green Buildings 2*

OR

Complete two GB workshops and one week-long Renewable Energy workshop:

- *RE I: Solar Technologies (PV or Solar Thermal)*
- *RE II: Business Basics of RE, Biofuels or Photovoltaic Industries*
- *RE IV: Electric Generation with Wind or Photovoltaics*

For more information on the Green Building diploma, please visit http://ContinuingEducation.ncsu.edu/green_building_series.html

GB II: Design and Implementation Strategies for Commercial Green Buildings Part I

August 10–14, 2009
8:30 a.m. - 5:00 p.m.

McKimmon Conference & Training Center, NC State University, Raleigh, NC

You Will Learn:

- Focus is on new commercial construction although specific topics will include existing construction information
- Introduction to green building principles and practices for commercial buildings
- How to use energy modeling analysis for small commercial/residential buildings, several programs will be discussed and briefly introduced
- Integrating day lighting into building design to reduce lighting and cooling loads and increase productivity
- The commissioning aspects of day-lighting controls
- Sustainable site and water efficiency standards of LEED program presented by industry professional

Schedule

Check-in is held from 8:00 to 8:30 a.m. on the first day with class from 8:30 a.m. to 5:00 p.m. each day. You will receive a confirmation letter with course information by e-mail shortly after your registration is received.

Depending on your Internet service provider and/or your personal e-mail settings, e-mails from NC State University in regard to this registration process may be considered unsolicited and not be delivered to your in box. If you do not receive an e-mail confirmation from NC State University, please check your spam file if you have one, or you may contact us at **919.515.2261** with any questions about your registration status.

- Tour of water quality/retention project expecting to achieve LEED
- Green Building standards compliance information integrated throughout workshop, including LEED

Fee: \$1,219 • \$649 for NC residents

Day 5 - LEED BD&C for New Buildings Technical Review

Presented by the U.S.Green Building Council

Separate registration required:

Visit ContinuingEducation.ncsu.edu/green_building_series.html for updated registration information and fees.

This 300 level course is designed for those who have a basic knowledge of LEED and want to delve deeper into the technical requirements of the rating, the building certification process and other implementation strategies. Using case studies and project profiles and interactive exercises, this is the most comprehensive review of LEED for New Construction v3.0 available. Although it will provide an overview of the building certification process, as well as a brief exam review, the course does not guarantee a passing score on the LEED.

Where to Stay

Lodging and evening meals are not included in your registration fee. Sleeping accommodations are available at several hotels convenient to the McKimmon Center, but please note that these hotels are not within walking distance. For lodging information, please visit our website at **ContinuingEducation.ncsu.edu** or call **919.515.2261**.

If you are a person with a disability...

and desire any assistive devices, services or other accommodations to participate in these courses, please e-mail **ContinuingEducation@ncsu.edu** or call **919.515.2261** during business hours (8 a.m. to 5 p.m. EST) at least two weeks in advance to discuss accommodations.

Green Building Diploma Series III: Design and Implementation Strategies for Commercial Buildings Part II

October 12–16, 2009
8:30 a.m. - 5:00 p.m.

McKimmon Conference & Training Center, NC State University, Raleigh, NC

You Will Learn: (First 4 days)

- Topics surrounding historic preservation
- Why increasing indoor air quality matters to the bottom line
- Techniques for increasing indoor environmental quality
- The basics of advanced mechanical systems
- Building commissioning
- Interior material selection choices-- what is new in the green materials industry
- How green applications and existing buildings can coexist
- How to integrate renewables

Fee: \$1,219 • \$649 for NC residents

Day 5 - LEED EBOM for Existing Buildings Technical Review

NEW!

Presented by the U.S. Green Building Council

Separate registration required
<http://www.greenbuild365.org/coursedetail.aspx?ID=90000030>

This workshop is intended for building owners, operators and maintenance professionals involved in implementing LEED for Existing Buildings: Operations & Maintenance or pursuing GBCI's LEED AP + (Tier II) credential in commercial operations and maintenance. It walks through the phases of a typical project, using case examples and implementation strategies throughout to reinforce learning and encourage students to apply knowledge to real-life situations. Prior Knowledge: Familiarity with the LEED Rating System is a must and USGBC's "LEED Core Concepts & Strategies" workshop is strongly recommended.

GB I: Designing and Building a Sustainable Home or Small Building

May 2010
8:30 a.m. - 5:00 p.m.

Location TBD

You Will Learn:

- Introduction to residential green building principles and practices
- Basics of residential building science
- Construction/design decision-making for healthy homes

- Indoor air quality issues
- Green building guidelines for site, water, building and material issues
- Nuts and bolts of building envelope design
- Passive solar home
- Heating, air conditioning, and ventilation techniques of high performance homes
- Quality assurance including green building rating systems (LEED for Homes, Healthy Built Homes)
- Introduction to tax credits, incentives, policies for green homes
- Tour of green homes and/or small commercial buildings

These workshops comprise the week-long GB I but may also be taken as stand-alone workshops:

Green Building Basics

May 2010 (First 2 days)
8:30 a.m. - 5:00 p.m.

This two-day workshop will give you a strong introduction to residential and small buildings green building principles and practices. You'll learn the basics of residential green building science, and you'll be exposed to construction/design decision making for healthy homes, indoor energy efficiency and other issues in home construction.

Intermediate Green Building Course

May 2010 (Last 3 days)
8:30 a.m. - 5:00 p.m.

You'll become aware of how to design a passive solar home and apply North Carolina passive solar tax credits, and you'll gain an introduction to indoor air quality for residential building, HVAC techniques of high performance homes and small buildings, and quality assurance. Take a tour of green homes and/or small commercial buildings.

"This was a great introduction to green building concepts and practices! I learned a lot of new information that will enable me to be a better builder."

—Seth Shoneman, Operator,
Wide Open Woodworks,
Greenville, NC

"I was extremely impressed by the depth of knowledge and passion the instructors have for the Green Building. Not only do you learn but you also become inspired to teach others."

—Amanda Dodson,
Administrative Assistant,
Preston Drywall Co., China Grove, NC

Continuing Education Units (CEUs) & Professional Development Hours (PDHs)

Individuals satisfactorily completing each one-week course will be awarded 3.5 CEUs and 35 PDHs. For more information on these credits and how to obtain your record, please visit our website at

ContinuingEducation.ncsu.edu
or call 919.515.2261

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Attention: Mail Room Personnel
Please re-route if necessary!
Thank you!

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