



Introduction to LEED Green Associate and New Design & Construction

Test Prep: The program is designed to assist in preparing to take the LEED Green Associate Exam

Class Syllabus

This certificate program responds to the growing need for specially trained professionals who are able to adapt to a changing industry and culture. This is an exciting time in the building industry. LEED – guided, healthy, high-performance buildings are quickly becoming the standard for progressive cities, school districts and the private sector. There is a place for all disciplines in this comprehensive collaborative practice.

The LEED Green Associate credential is a new title created to allow a person to demonstrate green building expertise in nontechnical fields of practice. It denotes basic knowledge of green design, construction, and operations. The LEED Green Associate credential also serves as the first step for professionals pursuing a LEED Accredited Professional (AP) specialization.

This program is designed to assist in preparing to take the USGBC LEED Green Associate exam.

Introduction to Green Building

The first phase of the class will focus on preparing the student with the prerequisite required to successfully understand the Green Building/Sustainability content. General terms and concepts utilized in the design/construction industry as they relate to sustainability will be reviewed.

Introduction to Sustainability, Green Building and the US Green Building Council

This section will provide an introduction to sustainability by discussing the principles of sustainability and green building. The history and structure of the US Green Building Council, the LEED rating system and other green building resources will be covered.

Sense of Place: Site Development and Sustainable Landscapes

Sustainable site selection, transit-oriented design, and neighborhood development will be addressed in this section. The importance of building orientation, sustainable, native landscapes, stormwater management, and strategies for reducing light pollution as well as heat island effect will also be discussed.

Integrated Energy Systems: Energy Efficient Design, Indoor Environmental Quality and Commissioning

Energy-efficient design will be addressed, including integrated design, energy-efficient mechanical systems, and balancing energy efficiency with indoor air quality. An overview of the importance and process of commissioning will be given.

Environmentally Sensitive Construction Materials: Exterior and Interior Materials, Construction Waste, and Building Recycling and Material Reuse

This section will cover green material selection for the design, specification and construction of sustainable structures. Green material attributes and costs will be addressed, as well as deconstruction and construction waste reduction practices.

Indoor Environmental Quality, Materials, Occupant Health and Comfort

The discussion of sustainable material selection will continue in this section as viewed from the point of indoor environmental quality. Occupant health and productivity will also be addressed.

Green Homes and Commercial Interiors

This section provides an overview of this fast growing, dynamic field. The program will focus on site and home design, energy-efficient envelope, high performance HVAC systems, natural home building techniques, economics of green homes, and green rating systems.

The Integrated Design Process

This section will discuss the Construction Management of a LEED commercial project, as well as case studies of LEED projects.

The Economics of Green Building and On-going Sustainability

This section will focus on making the business case for green building and maintaining and operating a building for ongoing sustainability. An overview of the course will be given, with additional preparation for the LEED Green Associate Exam.

LEED Green Associates Test Prep

This section will be an intensive preparation for the LEED Green Associate Exam, including the Building Design and Construction portion.

Sustainability Charrette

Following a presentation, the students will participate in a LEED design charrette.

Time/Date

The Tuesday and Thursday night classes will be from 5:30–7:30 pm. The classes start September 14 and the last class will be November 4. (8 weeks)

Locations

Colorado State University – Pueblo Continuing Education
Citadel Center, 730 Citadel Dr. East, Suite 300
Colorado Springs, Colorado

Auraria Higher Education Center
Room 008
1100 Lawrence St.
Denver, CO

Mesa State College
Archuleta Engineering Center (AEC)
2510 Foresight Circle
Grand Junction, CO

The program will originate from Colorado State University – Pueblo Citadel Center in Colorado Springs and the Auraria Higher Education Center in Denver. All locations will be able to utilize videoconferencing to interact with the instructors in real time. The instructors are noted professional experts in their various fields.

Registration

The program starts on September 14 and ends on November 4. The class will meet on Tuesday and Thursday nights from 5:30–7:30 pm.

Registration Cost: \$1,985

Registration includes the required study guides (a \$200 value).

Completed registration forms or vouchers may be:

Faxed to: 970–282–0396

Scanned and e-mailed to: constructedu@mindspring.com

Mailed to: PDI, Inc.
4863 Twin Peaks Cir.
Fort Collins, CO 80528

Green Building Program Schedule

<u>Date</u>	<u>Class Title</u>
Sept 14	Introduction to Sustainability, the US Green Building Council and the LEED rating system
Sept 16	Construction Industry Concepts and Trends
Sept 21	Construction Industry Concepts and Trends
Sept 23	Understanding the LEED Accreditation Process & Exam Prep Requirements
Sept 28	Sense of Place: Site Development, Sustainable Communities and Transit-Oriented Development
Sept 30	Deconstruction, Material Reuse, & Construction Waste Recycling:
Oct 5	Indoor Environmental Quality and the Health and Productivity Benefits of Sustainable Design
Oct 7	Integrated Building Energy Systems: Energy Efficient Design, Indoor Environmental Quality, and Basic Commissioning
Oct 12	Enhanced Commissioning: Energy Conservation and Operational Cost Benefits
Oct 14	Environmentally Sensitive Construction Materials: Building Materials & Resources
Oct 19	Existing Building Operations & Maintenance (EBOM), Indoor Plumbing Water Efficiency
Oct 21	Green Homes and Commercial Interiors
Oct 26	The Economics of Green Building and the Future of Sustainability
Oct 28	Second Exam prep or make-up date for snow/ weather day
Nov 2	Preparing for a Standardized Test and LEED Green Associate Exam test prep
Nov 4	The Integrated Design Process and Sustainability Charrette

Green Building Certificate Program

Registration Form

Name: _____

(Please register using name as you wish it to appear on Certificate of Completion.)

Address: _____

City: _____ State: _____ Zip: _____

E-mail: _____ Fax: _____

(Required. All correspondence and receipts are sent via E-mail.)

Phone (work): _____ (cell): _____

Registration: \$1,985 (Registration includes the required study guides, a \$200 value.)

_____ **Colorado State University – Pueblo Citadel Center**, Colorado Springs, CO

_____ **Auraria Higher Education Center**, Denver, CO

_____ **Mesa State College**, Grand Junction, CO

Method of Payment:

Check (PDI, Inc.) Voucher Visa MasterCard

Card #: _____ Expiration Date: ____ / ____ / ____

Name on card: _____

Signature: _____

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Space is limited. Qualified applicants will be accepted on a first-come, first-served basis.

If a written withdrawal request is received within 5 calendar days after the first class meeting, you may receive a refund less a \$200 withdrawal fee to cover the administrative cost and reference books. Non-attendance does not constitute a withdrawal.