

Green Building and LEED Rating System

Outline of Instruction

Course Information

Organization	Monroe County Community College, ITD
Development Date	3/22/2010
Course Number	CONM 160
Instructional Level	Associate Degree
Potential Hours of Instruction	45
Total Credits	3

Description

This course examines the practice sustainability in the built environment. Discussions and activities will explore how researchers, designers, builders and the public define/implement Sustainability and Green Building. Case studies and other examples of current practice will present the business case for sustainability and green building by examining the "Triple Bottom Line" of people, planet, and profit. Strategies for implementation of green building techniques will be presented by guest speakers with current field experience certifying projects using the U.S Green Building Council's LEED® rating systems. Students will also prepare for the LEED® Green Associate Exam.

MAJOR UNITS

1. Sustainability
2. Buildings and Climate Change
3. Economics of Sustainable Construction
4. Green Building Rating Systems
5. Implementation of Green Building Strategies

Textbooks

USGBC. *Green Building and LEED Core Concepts Guide*. United States Green Building Council. **Edition:** 2nd Edition. **Source:** USGBC.org.

USGBC. *USGBC LEED Green Associate Study Guide*. United States Green building Council. 2009. **Edition:** First. **ISBN:** 978-1-932444-23-0. **Source:** USGBC.org.

Learner Supplies

USB Flash Drive.

Prerequisites

ENG 090 and/or RDG 090

Exit Learning Outcomes

Program Outcomes

- A. Acknowledge the fundamental processes used to create project designs and construction documents

- B. Define the roles, relationships and responsibilities of the participants in the design and construction process.
- C. Interpret applicable building codes and regulations in the construction process

General Education Outcomes

- A. Communicate information in writing using the rules of standard English
- B. Use computer technology to retrieve information
- C. Use computer technology to communicate information
- D. Apply mathematical approaches to the interpretation of numerical information

External Standards

LEED New Construction V 3.0

LEED for Homes 2009

ASHRAE 62.1-2004 Indoor Air Quality and Ventilation

ASHRAE 90.1-2004 Building Energy Systems, HVAC, Lighting & Envelope

Course Outcomes

1. **Define Sustainability**
2. **Discuss the possible causes of climate change**
3. **Identify environmental impacts of buildings**
4. **Identify economic factors of green building**
5. **Select appropriate sustainable materials and techniques.**