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

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.