



Course Outcome Summary

Required Program Core Course

CONM 160 – Green Building & LEED System

Course Information

Division	ASET
Contact Hours	45
Theory	45
Lab Hours	0
Total Credits	3

Prerequisites: ENGL 090 and RDG 090 or qualifying scores on accepted placement tests

Course Description: This course is designed to give students the skills required to understand the basic concepts of green building and LEED systems. The course examines the practice of sustainability as it relates to multiple different types of construction. Multiple areas of green building will be discussed ranging from sustainable sites, public transportation, reduction in electrical and water usage and many more. An understanding of the LEED ranking system will be obtained along with understanding how different projects can utilize different points in order to obtain a platinum certified projects.

This course is a required core course for students pursuing an AAS in Construction Management Technology.

Program Outcomes Addressed by this Course:

Upon successful completion of this course, students should be able to meet the program outcomes listed below:

- A. Analyze, interpret and understand 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. Use clear and effective written and oral communication methods to facilitate interaction with all project team participants.
- D. Employ the methods, materials, used in the design and construction of buildings and civil works.
- E. Accurately quantify materials required for project construction.
- F. Interpret construction documents to accurately predict project costs and assign resources.
- G. Utilize construction operations planning methods to create accurate project schedules and monitor productivity.
- H. Interpret and apply applicable building codes and regulations in construction processes.
- I. Operate industry-standard software for computer-aided design and drafting (CADD), project cost estimating, and project scheduling.
- J. Utilize a working knowledge of safety, health, and environmental issues related to construction activities.
- K. Utilize modern surveying methods for land measurement and construction layout



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In order to evidence success in this course, the students will be able to:

1. Demonstrate knowledge of the LEED program & the point system.

In addition, following program outcomes are met by above outcome.

- A. Analyze, interpret and understand 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. Use clear and effective written and oral communication methods to facilitate interaction with all project team participants.
- D. Employ the methods, materials, used in the design and construction of buildings and civil works.

2. Understand why the LEED system continues to change as technology & innovation occur in the construction industry.

In addition, following program outcomes are met by above outcome.

- D. Employ the methods, materials, used in the design and construction of buildings and civil works.
- E. Accurately quantify materials required for project construction.
- F. Interpret construction documents to accurately predict project costs and assign resources.
- H. Interpret and apply applicable building codes and regulations in construction processes.
- K. Utilize modern surveying methods for land measurement and construction layout

3. Demonstrate knowledge & basic skills needed to recognize LEED & green building techniques in a structure in your daily life.

In addition, following program outcomes are met by above outcome.

- D. Employ the methods, materials, used in the design and construction of buildings and civil works.
- E. Accurately quantify materials required for project construction.
- F. Interpret construction documents to accurately predict project costs and assign resources.
- H. Interpret and apply applicable building codes and regulations in construction processes.



MONROE COUNTY
COMMUNITY COLLEGE

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4. Demonstrate knowledge to be able to incorporate green building ideas into an existing residential or commercial type construction project during the design process.

In addition, following program outcomes are met by above outcome.

- A. Analyze, interpret and understand 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. Use clear and effective written and oral communication methods to facilitate interaction with all project team participants.
- F. Interpret construction documents to accurately predict project costs and assign resources.
- H. Interpret and apply applicable building codes and regulations in construction processes.