



Course Outcome Summary

Required Program Core Course

CONM 100 – INTRODUCTION TO DESIGN AND CONSTRUCTION

Course Information

Division	ASET
Contact Hours	60
Theory	40
Lab Hours	20
Total Credits	3

Prerequisites RDG 090 or qualifying score on accepted placement tests or Instructor Consent

Course Description

This course introduces students to the fields of architecture, interior design, construction, and related disciplines. Students learn basic terminology, and documentation standards and techniques. Significant factors influencing design and construction are explored, including historical precedents and design theory, interrelationships between working professionals, the financing of projects, ethical and social concerns, and physical and legal constraints. Consideration is given to historical, aesthetic, functional, structural, and economic aspects of design. Essential topics to the organization and management of construction projects, such as introduction to bidding procedures, organization and interpretation of specifications, use of the various construction documents, and the importance of the building codes and zoning regulations will be also covered.

This course is a required core course for students pursuing a(n) 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.
- F. Interpret construction documents to accurately predict project costs and assign resources.
- H. Interpret and apply applicable building codes and regulations in construction processes

Course Outcomes

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

1. **Explain the principal characteristics of the construction industry and its major sectors and current trends within the industry through research and discussion in the classroom**



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- 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.
- 2. Categorize the roles and responsibilities of construction project participants; primary project delivery method systems with their advantages and disadvantages as well as major types of contracts**
- 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.
- 3. Explain the processes involved in the project bidding phase; dissect the project scope into work packages; prepare bids analysis and alternates as a construction manager**
- 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
- 4. Discuss the administrative work necessary to properly execute and close-out as well as turn over a construction project**
- 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.
- 5. Explain the importance of the building codes and zoning regulations**
- A. Analyze, interpret and understand the fundamental processes used to create project designs and construction documents.



MONROE COUNTY
COMMUNITY COLLEGE

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