

# **COURSE OUTLINE**

## **ARCM-215**

### **Construction Operations**

**3 Semester Hours**

## **HOWARD COMMUNITY COLLEGE**

### **Description**

This course emphasizes the corporate structure and basic principles required to operate and manage a general contracting company. Project management, from the executive perspective, will be emphasized. Topics include an overview of construction law and a review of the bonding and insurance requirements of a construction project. Prerequisite: ARCM-200. (2 hours lecture, 2 hours lab)

### **Overall Course Objectives**

Upon completion of this course, the student will be able to:

1. Describe the structure of a general contracting firm.
2. Identify the different construction delivery methods.
3. Discuss the operations responsibilities of a general contractor.
4. Identify the planning functions required for a successful project.
5. Recognize the importance of material and cost control.
6. Identify subcontractor management tools.
7. Identify the safety standards and quality control requirements for contractors.
8. Identify strategies to use in resolving disputes.
9. Discuss basic construction law issues.
10. Discuss the types of construction insurance and bonds that must be provided during the construction process.

### **Major Topics**

- I. Construction Management Organization
  - A. Delivery Methods
  - B. Construction Departments
  - C. Contractor Roles and Responsibilities
  
- II. Construction Operation Processes
  - A. Project Planning
  - B. Manpower/Staffing
  - C. Subcontractor Management
  - D. Material Control
  - E. Cost Control
  - F. Quality Assurance
  - G. Safety

- III. Business Processes
  - A. Insurances and Bonds
  - B. Risk Management
  - C. Labor Relations
  
- IV. Construction Law
  - A. Legal Structures
  - B. Claims
  - C. Liability
  - D. Dispute Resolution

### **Course Requirements**

Grading/exams: Grading procedures will be determined by the individual faculty member but will be calculated on the basis of exams, homework assignments and group projects.

### **Other Course Information**

This course is required in the Architectural and Construction Management Program.