

MOHAWK VALLEY COMMUNITY COLLEGE
UTICA & ROME, NEW YORK

SCHOOL OF SCIENCE, TECHNOLOGY, ENGINEERING, AND MATHEMATICS - CAREER

Course Outline: CT 243 – Construction Management

I. Catalog Description

CT 243 Construction Management [P-3, C-1, CR-3]

This course covers the legal problems, building codes, specifications, and efficient construction methods relating to construction projects. Topics include estimating costs of construction projects and construction scheduling.

Prerequisite: *None*

II. Materials

Text: *CT 243 Construction Management Workbook* (Published & provided by MVCC)

Other: Engineering scale, scientific calculator, engineering computation paper, 3-ring Binder

III. Course Objectives

The objective of this course is to introduce students to pertinent construction management topics that could be encountered on a construction project in the civil engineering field. It will cover best practices in Critical Path Method, quantity work-ups, computer applications, field equipment, and project estimating.

IV. Student Learning Outcomes (*ETAC-ABET Assessment Criteria*)

1. Students will be able to read and interpret civil engineering drawings, contract documents and specifications/building codes. (1, 3)
2. Students will be able to prepare complete quantity, cost, and bid estimates for a construction project. (1, 3)
3. Students will be able to read, interpret, and prepare Critical Path Method (CPM) documents.
4. Students will be able to communicate effectively by producing written documents. (3)
5. Students will be able to utilize current computer programs. (1)
6. Students will be able to function effectively in team efforts. (5)
7. Students will gain knowledge in construction sequence, techniques, products, specifications, submittals, and quantity takeoff of civil engineering items.

V. Major Topics

Week	Topic
1	Introduction: History & Basic Concepts
2	Construction Contracts
3	Project Delivery Methods
4	Codes & Specifications, Government Agencies
5	Written Project & PowerPoint
6	Exam 1
7	Construction Estimating 1
8	SPRING BREAK - NO CLASS - ENJOY!!
9	Construction Estimating 2
10	Construction Scheduling
11	Critical Path Method Scheduling 1
12	Critical Path Method Scheduling 2
13	Quality Control & Safety
14	Exam 2
15	Sustainability & Green Construction

Course Name: CT 243 Construction Management

[illegible]