MOHAWK VALLEY COMMUNITY COLLEGE UTICA & ROME, NEW YORK

# Course Outline: CT 243 – Construction Management

1. **Catalog Description**

CT 243 Construction Management [P-4 CR-2]

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*

# 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.

1. **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.

# Major Topics

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| --- | --- |
| **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 |

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| **Date** | **Faculty Name** | **Change** | **Input** | **Measurement** | **Assessment** | **Action** |
| 5 Dec 2014 | Jerry Stegeman | Revised outcomes & topics |  |  |  |  |
| 27 Feb 2015 | Brittany Fuller | Edited to match format |  |  |  |  |
| 2016 | Mike Pimpinella | Revised outcomes & topics |  |  |  |  |
| 20 Jan 2018 | Dave Bauer | Reviewed for content and format |  |  |  |  |
| 7 Jan 2019 | Mike Sisti | Revised outcomes & topics, updated ABET assessment criteria |  |  |  |  |
| 14 Jan 2020 | M Sisti | Reviewed for content and format |  |  |  |  |
| 15 Jan 2021 | M Sisti | Reviewed |  |  |  |  |
| 18 Jan 2022 | M Sisti | Reviewed |  |  |  |  |
| 8 Jan 2023 | M Sisti | Reviewed/Updated policies |  |  |  |  |
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