# CONSTRUCTION MANAGEMENT (ADVANCED CERTIFICATE)

Civil and Urban Engineering Department (https://engineering.nyu.edu/academics/departments/civil-and-urban-engineering/)

**NYSED:** 83512 **HEGIS:** 0599.00 **CIP:** 14.3301

## Program Description

Professionals in the construction industry hail from a variety of backgrounds — engineering, math, business, liberal arts. Concentrated study in construction management, though, can further a professional's career — even without committing to a full-time advanced degree.

Our Advanced Certificate in Construction Management program offers students that chance. Jointly offered by the Department of Civil and Urban Engineering and the Department of Technology Management and Innovation, the program combines the best of both disciplines to yield a robust menu of courses. Our students study the latest advancements in physical technology, as well as general management and construction management practices. Classes complement their existing skills, and by the program's end, a renewed confidence in their abilities will push them to the forefront of their profession.

## Admissions

To apply for admission to any Tandon graduate program, please contact the Office of Graduate Admissions (https://engineering.nyu.edu/admissions/graduate/).

## Program Requirements

The program requires the completion of 15 credits, comprised of the following:

| Course | Title | Credits |
|---|---|---|
| **Major Requirement Courses (from the MS in Construction Management)** | | |
| Select at least three courses (9 credits) of the following courses: | | 9 |
| CE-GY 7963 | Selected Topics in Construction I | |
| CE-GY 8243 | Construction Modeling Techniques | |
| CE-GY 8253 | Project Management for Construction | |
| CE-GY 8263 | Construction Cost Estimating | |
| CE-GY 8273 | Contracts and Specifications | |
| CE-GY 8283 | Risk Analysis | |
| CE-GY 8293 | Construction Operations Analysis | |
| CE-GY 8313 | Engineering for Construction I: Methods and Technologies | |
| CE-GY 8333 | Marketing for Construction Management and Engineering Services Mktg for Const Mgmt & Engr Serv | |
| CE-GY 8343 | Construction Site Safety | |
| CE-GY 8353 | Construction Scheduling | |
| CE-GY 8373 | Construction Accounting and Finance | |
| CE-GY 8383 | Building Information Modeling (BIM) and Its Applications in AEC/FM | |
| CE-GY 8703 | Managing and Leading in the 21st Century | |
| CE-GY 8713 | Construction and the Law | |
| CE-GY 8733 | Infrastructure Financing: Structuring of a Deal | |
| CE-GY 8763 | Capital Program Management/Program Development | |
| CE-GY 8773 | Dispute Avoidance and Resolution | |
| CE-GY 8803 | Infrastructure Planning for Public Works | |
| ROB-GY 6203 | Robot Perception | |
| **Management Elective** | | |
| Select at least one MG-GY course (3 credits) in consultation with the program director. | | 3 |
| **Major Requirement or Management Elective** | | |
| Choose an additonal course from the Major Requirement list above or another MG-GY course (3 credits) in consultation with the program director. | | 3 |
| **Total Credits** | | **15** |

## Sample Plan of Study

| Course | Title | Credits |
|---|---|---|
| **1st Semester/Term** | | |
| Major Requirement Course | | 3 |
| Major Requirement or Management Elective | | 3 |
| | **Credits** | **6** |
| **2nd Semester/Term** | | |
| Major Requirement Course | | 3 |
| Management Elective | | 3 |
| | **Credits** | **6** |
| **3rd Semester/Term** | | |
| Major Requirement Course | | 3 |
| | **Credits** | **3** |
| | **Total Credits** | **15** |

## Learning Outcomes

Upon successful completion of the program, graduates will:

1. Learn management and leadership practices.
2. Learn how to apply innovative organizational, technological, planning, and financial tools to construction projects and programs.
3. Learn the importance of effective communication with all construction industry players.

## Policies

### NYU Policies

University-wide policies can be found on the New York University Policy pages (https://bulletins.nyu.edu/nyu/policies/).

### Tandon Policies

Additional academic policies can be found on the Tandon academic policy page (https://bulletins.nyu.edu/graduate/engineering/academic-policies/).