

CONSTRUCTION MANAGEMENT (ADVANCED CERTIFICATE)

Department Website (<https://engineering.nyu.edu/academics/programs/construction-management-ac/>)

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 your career – and you don't even need to commit to a full-time advanced degree.

Our Advanced Certificate in Construction Management program offers you that chance. Jointly offered by the Department of Civil and Urban Engineering and Department of Technology Management, 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 your existing skills, and by the program's end, a renewed confidence in your abilities will push you to the forefront of your profession.

Admissions

You must hold a relevant bachelor's degree. Compatible backgrounds include engineering, math, science, management, architecture, economics, law, and the liberal arts. The undergraduate degree must be from an acceptable institution.

Program Requirements

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

Course	Title	Credits
Required Courses		
Select at least three of the following courses approved by a Construction Management Program Director.		9
CE-GY 7963	SELECTED TOPICS IN CONSTRUCTION I	
CE-GY 7973	SELECTED TOPICS IN CONSTRUCTION II	
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 8303	Information Systems in Project Management	
CE-GY 8313	Engineering for Construction I: Methods and Technologies	
CE-GY 8323	Engineering for Construction II: Design	
CE-GY 8333	Marketing for Construction Management and Engineering Services	
CE-GY 8343	Construction Site Safety	
CE-GY 8353	CONSTRUCTION SCHEDULING	

CE-GY 8363	BUILDING INFORMATION MODELING PROJECT CONTROLS	
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 8723	How to Succeed in Construction	
CE-GY 8733	Infrastructure Financing: Structuring of a Deal	
CE-GY 875X	Employer Focused Residency	
CE-GY 8763	Capital Program Management / Program Development	
CE-GY 8773	Dispute Avoidance and Resolution	
CE-GY 8783	Construction Management and Planning	
CE-GY 8803	Infrastructure Planning for Public Works	
ROB-GY 6203	ROBOT PERCEPTION	
Select at least one graduate-level Management (MG) course approved by a Construction Management Program Director		3
Select one additional course from above		3
Total Credits		15

Sample Plan of Study

Course	Title	Credits
1st Semester/Term		
M.S. Construction Management Major Requirement Course		3
M.S. Construction Management Major Requirement Course or MG-GY Course		3
Credits		6
2nd Semester/Term		
M.S. Construction Management Major Requirement Course		3
MG-GY Course		3
Credits		6
3rd Semester/Term		
M.S. Construction Management 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/>).