

Construction Management

This certificate trains individuals for highly skilled jobs in general contracting, heavy/highway and building construction, mechanical and electrical contracting, and construction management.

Who would be suited to take this program?

This certificate teaches managerial aspects of contracting and the study of an individual firm in relation to the entire construction industry. Topics include contractor organization and management, legal aspects of construction, and financial planning. In addition, this graduate certificate will allow professionals to specifically focus in on the legal aspect of Environmental Engineering, Construction Management or Legal, Ethical and Intellectual Property Issues for Engineering Managers.

What will I learn?

- Construction Management where you will study an individual firm in relation to the entire construction industry.
- Construction Cost Estimating, which includes a full range of construction cost-estimating methods, such as final bid estimates for domestic building and heavy/highway projects; computerized takeoff and estimating techniques; international construction; financial and cost reporting; databases; indices; risk; competition; performance; and profit factors.
- Project Control which focuses on the methodology that can be employed to plan project implementation and control progress.
- Facility Maintenance that has a strong emphasis on planning and control of facilities use, maintenance, utility management, managerial control, budgets and costs, personnel administration, legal and safety, flexibility measurement, and design.
- Legal Aspects in Construction, incorporating contract responsibilities of contractors, engineers, and owners; subcontracts and third-party liability; construction law and code compliance; and insurance and bonds.

Why study Construction Management at NJIT?

Construction Management can be studied partially online or at our NJIT Newark campus. You'll have access to the same outstanding facilities and professors as full-time NJIT students, plus the flexibility you need to juggle all the aspects of your life.

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For more information about the online graduate certificate in Construction Management click here (http://engineeringmasters.njit.edu/lpkp-certcm/?utm_source=NJIT&utm_medium=website&utm_campaign=S_SearchEngine2&src=S_SearchEngine2) AND For more information about the online graduate certificate in Project Management click here. (http://engineeringmasters.njit.edu/lpkp-certcm/?utm_source=NJIT&utm_medium=website&utm_campaign=S_SearchEngine2&src=S_SearchEngine2)

Prerequisites

Applicants should have an undergraduate degree in civil engineering, engineering or its equivalent, and should have proficiency in basic sciences and mathematics. Students who lack an appropriate undergraduate background may complete bridge courses. The complete list of bridge courses is as follows:

- MATH 112 (pre-req MATH 111) (Calculus 1 and 2)
- MATH 279 (pre-req MATH 112) (Probability and Stats for Engineers)
- CE 200/200A (pre-req MATH 111) (Surveying)
- CE 210 (Construction Materials and Procedures)
- CE 341/341A (pre-req MECH 320- for this program) (Soil Mechanics)
- MECH 320 (pre-req MATH 112 and PHYS 111/111A) (Statics and Strength of Materials)
- CS 101 (Intro to Programming)

Related Degree Programs

All credits for Construction Management relates in its entirety to either NJIT MS in Civil Engineering (<http://catalog.njit.edu/graduate/newark-college-engineering/civil-environmental/civil-ms/>) or NJIT MS in Engineering Management (<http://catalog.njit.edu/graduate/newark-college-engineering/mechanical-industrial/engineering-management-ms/>)

Gainful Employment Disclosure

Click here (<http://www.njit.edu/graduatestudies/sites/graduatestudies/files/gainfulemployment/construction-management-cert-gainful-employment.html>) for the Gainful Employment Disclosure for this program

What are the Required Courses?

Code	Title	Credits
Core Courses		
CE 610	Construction Management	3
CE 616	Construction Cost Estimating	3
CE 611	Project Planning and Control	3
Electives		
Select one of the following:		3
EM 602	Management Science	
EM 631	Legal Aspects in Environmental Engineering	
EM 632	Legal Aspects in Construction	