

# CONSTRUCTION MANAGEMENT



## ***Construction Management at Drexel***

Construction management is a dynamic profession, a combination of art, science, and technology. While an understanding of the technical aspects of construction is important, construction professionals must also know the business and management aspects of the field. The accelerating rate of technological development and competition in the industry has necessitated new construction methods, equipment, materials, and management techniques. As a result, there is increasing demand for capable and innovative construction professionals.

Drexel at BCC's Construction Management major provides a broad academic, technical, business, and construction management foundation designed to meet this need. Our program will prepare you for all phases of operation and management of the construction organization, including cost estimating, project scheduling, and planning.

## ***Employers***

Companies that have hired Drexel students include:

- Gilbane Building Company
- L.F. Driscoll Construction Company
- Navigant Consulting, Inc.
- Philadelphia Housing Authority

## ***Potential Careers***

**Construction Manager.** Coordinates a venture from its initial development through final construction. Develops a schedule and ensures the project is completed on time and within budget. Obtains necessary licenses and permits and oversees the progress of the project.

**Cost Estimator.** Prepares information about costs that are necessary for a business to bid on a contract or to determine the profitability of a proposed product. Assembles information about factors that can influence costs such as materials, labor, location, and special machinery requirements, including computer hardware and software.

**Project Manager.** Develops requirements, budgets, and timetables for a firm's construction plans to ensure that the projects are successful. Determines the tasks to complete, assigns responsibilities to team members, and sees the project through from conception to completion.

## ***Courses You'll Really Enjoy***

**Techniques of Project Control.** Covers planning, scheduling, network systems, and communications required for project control, diagram logic, and claims prevention.

**Estimating I and II.** These courses cover discussion of the estimating function and review and applications of material quantity survey techniques used in estimating costs of construction projects. They include types of approximate and precise methods of estimating and their uses, and computer applications. Other topics covered are pricing and bidding of construction work including cost factors, labor and equipment, productivity factors, prices databases, job direct and indirect costs, methods of estimating time, materials, equipment, subcontractors' work, general expenses, profit, bid preparations and submission, and computer applications.

**Construction Management of Field Operations.** Covers the decision-making process and quantitative techniques for planning and controlling field operations. Tracks operations from earth moving to materials receiving and handling, storage, and use. Addresses changing techniques and innovations.

**Building Codes.** Familiarizes students with the content of the International Building Code (emphasizing the nonstructural provisions), the purpose and intent of code requirements, and how to apply the code to structures and occupancies. Examines how the code is used as a tool in design and construction and prepares students for the advent of a single model building code planned for the nation.

## ***For More Information***

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