CONSTRUCTION MANAGEMENT

Program Description
The Construction Management bachelor's completion program prepares students to successfully manage, lead, and influence construction projects, teams, and companies. Graduates develop the critical thinking, problem solving, and decision making skills to take on professional roles as project managers, construction managers, business leaders, and entrepreneurs. Students in the program represent various construction industries and combine their specialized technical knowledge with leadership skills required to manage all phases and types of construction and make ethical and strategic decisions about the built environment.

Coursework features lectures on the principles of management and leadership, marketing, construction finance and law, green construction, and field engineering, with advanced training in estimating, planning and scheduling. Students also complete professional development projects and capstones within the construction industry. Arts & Sciences courses enhance a student's technical education through study in oral and written communications, math and physical science; social/behavioral studies; and the arts and humanities.

Dunwoody College of Technology: a non-profit, private technical college since 1914.

Degree Requirements
Transfer credits from AAS or AS degree; requires a transfer evaluation

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<tr>
<th>Course Code</th>
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<tr>
<td>MGMT ELEC</td>
<td>Any course with an AMGT/MGMT acronym</td>
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<tr>
<td>CMGT3111</td>
<td>Construction Law</td>
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<td>CMGT3121</td>
<td>Construction Estimating II</td>
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<td>CMGT3130</td>
<td>Quality Assurance &amp; Risk</td>
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<td>CMGT3211</td>
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<td>CMGT3221</td>
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<td>Principles of Marketing</td>
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<td>CMGT4120</td>
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<td>CMGT4220</td>
<td>Utility &amp; Construction Design</td>
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<tr>
<td>MATH1700</td>
<td>Precalculus</td>
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Upper Division Physical/Environmental Sciences Elective with Lab
Upper Division Psychology Elective
Upper Division Humanities Elective

*Or take CMGT4110 Project Management: 4yr CM Competition

How to Apply

dunwoody.edu
612.374.5800
info@dunwoody.edu

Common Job Titles
- Project Manager
- Construction Manager
- Construction Business Owner
- Estimator
- Field Engineer

Recent Employers
- Kimley-Horn & Associates
- Ryan Companies
- Mortenson Construction

Salary Data
- $90,470 Annual Average Salary

Placement Rate
- 100%

**Data reflects placement for AY2015-16 graduates indicating employment in their field of study within 6 months following graduation. Full data calculations are available for review during College open hours Monday through Friday 8 a.m. to 4 p.m. CT at Career Services or contact careerservices@dunwoody.edu.

AY2017-S1 Revised: 4-4-17
**Course Descriptions**

**CMGT3111 Construction Law, 3 cr.**
Examine the components of Construction Law using case law studies and construction documents to understand and identify the legal issues and liabilities encountered in connection with a construction project.

**CMGT3121 Construction Estimating II, 3 cr.**
Advanced analysis of the quantity surveying, cost estimating, and bidding methods of building construction using current industry practices and methods to oversee and manage the successful procurement of projects.

**CMGT3130 Quality Assurance & Risk, 3 cr.**
Analyze the best allocation of people, processes, material, and equipment based on quality and productivity principles and expectations to maintain an efficient and safe work environment.

**CMGT3211 Construction Accounting & Finance, 3 cr.**
Apply basic accounting and finance concepts in the construction industry to analyze project data and financial statements to forecast, monitor and manage the costs of a construction project. Analyze the unique characteristics of construction accounting and finance through their use in budget development, securing funding, and cash flow to forecast the implementation of business decisions on financial statements.

**CMGT3221 Construction Planning & Scheduling II, 3 cr.**
Advanced principles and techniques of managing construction schedules to forecast and report progress for construction projects.

**MGMT1100 Principles of Marketing, 3 cr.**
Introduction to terms, concepts, and skills for analyzing marketing problems. Manage/integrate communication aspects of marketing, such as advertising, sales promotion, and public relations. Identify how to set objectives, select media and measure effectiveness. Explain sales promotion techniques.

**CMGT4120 Field Engineering, 3 cr.**
Analyze statics and strength of materials as used for the application of material specifications, quality control, and testing required in the field. Emphasis on field documentation and verification of subcontractor work.

**CMGT4130 Green Construction, 3 cr.**
Examine green building principles and best practices through laboratory exercises, research, discussions, case studies, and presentations; apply to industry documents to understand the green building industry.

**CMGT4501 Project Management, 3 cr.**
Integrate project management with documentation prepared for review by an industry review panel. Emphasis is on creation and coordination of plans, schedules, estimates, finance, marketing analysis, risk, insurance, and green initiatives for a site development project.

**CMGT4110 Project Management: 4yr CM Competition, 3 cr.**
Integrate residential project management with documentation prepared for review by an industry review panel and a presentation at an industry sponsored national student competition. Emphasis is on creation and coordination of plans, schedules, estimates, finance, marketing analysis, risk, insurance, and green initiatives for a site development project. Students are selected by faculty to register for this course.

**CMGT4006 Professional Development, 1 cr.**
Develop and implement a customized plan which identifies areas of focus to be a successful graduate. Emphasis is on completing an internship, professional development, or alternative project.

**CMGT4211 Construction Topics II, 3 cr.**
Investigate a selected topic in various areas of construction allowing a problem of special interest to be further examined.

**CMGT4220 Utility & Construction Design, 3 cr.**
Examine the infrastructure systems related to public works projects produced in the United States; presented and discussed through a series of speakers, field trips and readings in order for construction professionals to realize the importance of our infrastructure systems and how they affect our society, including an analysis of current and future needs.

**MATH1700 Precalculus, 3 cr.**
Preparation for Calculus. Topics include understanding functions from symbolic, tabular, and graphical perspectives. Explore function transformations and composition, polynomial functions, rational polynomial functions, trigonometric functions, exponential functions, and conic sections. The focus is on problem solving using mathematical models to represent real world situations.