

Construction Project Supervision

The Career

Construction project supervision is a professional position that requires highly developed critical thinking, leadership and management skills. Job responsibilities include project implementation, project scheduling, safety management, client interaction, cost controls, sub-contractor management and performance, work schedule creation, site staffing and functional oversight of project performance through contract completion.

Average starting salary: \$45,187

Source: This information is based on the 2007 Dunwoody Employment Report

The Program

Dunwoody's program, developed to address the increasing demand for competent project superintendents, prepares students for entry-level positions in project supervision careers. Students learn material technology, project scheduling, estimating, cost management, environmental systems, field engineering, safety and risk management, communication, and leadership and management skills. The quarterly practicum provides the venue in which students work on projects specifically designed to provide current workplace experience. Students are also advised by industry professionals who make classroom appearances and provide field trips on a regular basis. Students are given access to computer software and networks important to their studies.

Program Length

Students are required to complete six quarters of class work; an internship is required at the completion of the first year of course work before being promoted to the second year of course work. Graduates earn an Associate of Applied Science (A.A.S.) degree.

Applying to Dunwoody is easy

To apply online, visit dunwoody.edu. Or, to speak with a Dunwoody Admissions representative, call 612-374-5800 or 800-292-4652.

Dunwoody's Admissions team is committed to working with you to ease and simplify the admissions process and provide all the necessary information regarding our academic programs, degree opportunities, financial aid, expectations and everything else that enters into such an important decision.

Other exciting Building and Construction Technology programs and degree options are available. Visit dunwoody.edu for complete details.

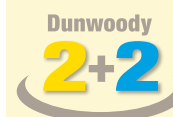


A.A.S. Degree Requirements

CSUP110	Professional Practice
CSUP111	Materials and Methods
CSUP112	Construction Documents
CSUP118	Building Codes
CSUP120	Basic Print Reading & Estimating
CSUP121	Safety Management
CSUP122	Concrete & Masonry Technology
CSUP130	Project Planning and Scheduling
CSUP256	Intro to Green Bldg Sustainability
CSUP131	Steel Technology
CSUP134	Civil Technology
CSUP133	Internship
CSUP266	Green Building Sustainability II
ARCH100	Introduction to 2D Drafting Software
CSUP240	Commercial Estimating
CSUP241	Mechanical, Electrical & Plumbing Sys
CSUP243	Field Engineering
CSUP250	Cost Management
CSUP251	Construction Accounting
CSUP252	Risk Management
CSUP261	Principles of Supv, Mgmt & Leadership
CSUP262	Project Supervision
COMM101	Electronic Communications
COMM103	Project Communication
MATH105	Algebra, Trig and Geometry
ENGL101	Composition
ECON100	Survey of Economics
HUMN130	Hispanic Culture & Communication
SPCH101	Public Speaking
COMM100	Communication Theory and Practice
QUAL110	Fundamentals of Quality for Service
	Diversity Electives



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Dunwoody's 2+2 concept means every graduate of a Dunwoody two-year associate's degree program is qualified to be admitted into one of our breakthrough bachelor's degree programs if they would like to continue their education.

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Course Descriptions

CSUP110 - Professional Practice

Obligations of a professional job superintendent. Emphasis on leadership, project standards, scope of work, and the construction plan including team organization, constructability factors, phased construction, legal aspects of the owner/contractor relationship, communications, business writing and marketing. The value of schedule and planning ahead.

CSUP111 - Materials and Methods

Introduction to building materials and basic methods of construction for wood construction technology. Introduction to architectural drafting and AutoCAD. Development of working drawings for a small commercial building. Major student project.

CSUP112 - Construction Documents

Overview of construction contract documents including working drawings, specifications and other contract documents. Emphasis on development of the project manual, legal and ethical aspects, and the role of the contractor in the final project. Communication and understanding jobsite rules, work procedures with subcontractor onsite foreman and industry problems.

CSUP118 - Building Codes

Survey of codes used in the construction industry including the International Residential Code, Minnesota Energy Code and the Americans with Disabilities Act. Introduction to the International Building Code and other building codes used in the construction industry; emphasis on content and uses of the building code, definitions and general requirements; detailed study of relationship between occupancy groups, construction types, height and area requirements, and exit requirements.

CSUP120 - Basic Print Reading & Estimating

Introductions to procedures of estimating and analyzing material, labor, equipment, methods of construction, overhead and profit. Emphasis on categories of estimates, bid preparation, life cycle costs, schedule of values, and changes order costs

CSUP121 - Safety Management

Strategies for creating effective safety culture for construction projects. Emphasis on federal laws and regulations, OSHA 30, effective safety planning, equipment inspection, disruption avoidance plans, high risk activities, job hazard analysis, crisis management and accident investigation. Proper procedures and guidelines for asbestos, mold, lead and infectious control.

CSUP122 - Concrete & Masonry Technology

Overview of concrete and masonry as they relate to building and bridge construction; emphasis on concrete and masonry uses, characteristics, limitations, equipment, methods of transportation, pouring, finishing, curing and testing procedures. Introduction to precast building members and uses

CSUP130 - Project Planning and Scheduling

Planning and scheduling of a construction project, utilizing the critical path method (CPM). Learn the use of Microsoft Project for scheduling. Emphasis on the integrated work plan, productivity and identifications of construction operations and their dependencies and duration times. Review the integration of the schedule to budgeting and cash flow.

CSUP131 - Steel Technology

Overview of steel as it relates to building and bridge construction; emphasis on steel uses, characteristics, limitations, equipment, methods of transportation and erection. Analysis, selection, and delineation of steel structural components and systems in buildings. OSHA subpart R steel erection standard.

CSUP134 - Civil Technology

Introduction to soil as a construction material. Emphasis on site preparation including large construction and excavation machinery, grading, underground utility installation, soil borings, earthwork computations and environmental remediation. Techniques and methods of laboratory and field tests for soil classification, NPDES permits, civil site plan reading, layout,

and estimating. The students will complete a major project. The project will consist of preparing a site layout from a contour model.

CSUP191 - Professional Development

Directed studies are developed and implemented with a customized plan which identifies areas of focus to be a successful graduate. Emphasis is on completing an internship, professional development or alternative project.

CSUP240 - Commercial Estimating

Introduction to the construction technology and materials involved in commercial concrete and masonry estimating. Emphasis on correct procedures of estimating and analyzing material, labor, equipment, methods of construction, overhead and profit

CSUP241 - Mechanical, Electrical & Plumbing Sys

Conceptual understanding of mechanical, electrical and plumbing systems in commercial structures and their integration with other building components.

CSUP243 - Field Engineering

Overview of duties and responsibilities of a field engineer for commercial, industrial and heavy construction. Emphasis on total station engineering. Basic techniques and equipment used in surveying, sketches and proper field note taking, methods of staking out a building; locating center lines of piers and installation of batter boards, computing horizontal and vertical curves and stationing for roadway alignments. Requires a major student project.

CSUP250 - Cost Management

Introduction to cost management with an emphasis on elements of procurement management, effective cost management, project budgets, conceptual estimating, life cycle costs, safety, labor productivity, and value engineering analysis.

CSUP251 - Construction Accounting

The cost management and purchasing process as it relates to such topics as inventory control, price determination, vendor selection, negotiation techniques, and ethical issues.

CSUP252 - Risk Management

The tools of liability and financial risk for a construction project Emphasis on bonds, insurance certificates, equipment waivers, underwriting factors and alternative forms of dispute resolution.

CSUP254 - Digital Media

Implementation and management of electronic communications, documents, reporting and file storage using industry best practices as required for day to day supervision of construction projects. Course requires a working knowledge of MS Office Professional, including MS Project.

CSUP256 - Intro to Green Bldg Sustainability

Students will learn the basic terms and applications of green building and design and how to apply it in their professional lives from project management to estimating. Presentations and discussions with green building designers and practitioners and their lessons learned will provide a focus for better understanding on how the green movement is changing the construction, architecture and engineering industry. This course will help students make the decision for what sort of professional accreditation or certification program they might want to pursue as well as be able to help make recommendations for helping owners and clients move forward with their own green goals in different programs such as LEED, Green Gloves, Energy Star, Minnesota Green Star.

CSUP261 - Principles of Supv, Mgmt & Leadership

Leadership and management techniques relevant to construction project supervision. Leadership emphasis on team leadership, change management delegation and team member learning and development. Management emphasis on interpersonal relationships, time management and organization, conflict management, communications, decision making and problem solving. Union vs. non-union, two gate systems, collective bargaining and AGC.

Construction Project Supervision

CSUP262 - Project Supervision

Leadership and management techniques relevant to construction project supervision. Leadership emphasis on team leadership, change management delegation and team member learning and development. Management emphasis on interpersonal relationships, time management and organization, conflict management, communications, decision making and problem solving. Union vs. non-union, two gate systems, collective bargaining and AGC.

CSUP266 - Green Building Sustainability II

Students will build on knowledge learned in CSUP256 such terms and applications of green building and design and how to apply it in their professional lives from project management to estimating. Presentations and discussions with green building designers and practitioners and their lessons learned will provide a focus for better understanding how the green building movement is changing the construction, architecture, and building industry. This course will help students make the decision for what sort of professional accreditation or certification program they might want to pursue as well as be able to help make recommendations for owners and clients to move forward with their own green goals in different programs such as LEED, B3, Green Globes, Energy Star, and Minnesota Green Star.