The Associate Degree in Construction Management Technologies is CPCC’s response to the demand for skilled managers in the construction industry. The two-year program is designed to prepare individuals for careers in residential and commercial construction management. These careers include project management, superintendence, estimating and skilled foremen.

GET STARTED

The admissions application is required for all students taking curriculum classes – classes that carry credit toward a degree, diploma or credit certificate.

- Complete admissions application to CPCC. Within an hour, you should receive an admission letter via email with your Student ID Number.
- Create your CPCC login (username and password).
- Log in to your CPCC student email.
- Complete FAFSA to begin the financial aid process.
- Submit high school and external college transcripts; then have college transcripts evaluated.
- Take the ACCUPLACER test.
- Sign-up and attend an orientation and advising session.
- Register and pay for classes, or confirm that you have a financial aid award by the payment due date.

FOR MORE INFORMATION

Construction Management Department 704.330.4483
www.cpcc.edu/construction-management

Construction Technologies Division 704.330.4408

Consult with a faculty member or the Program Chair prior to registering.

*For transfer to a Bachelor of Arts degree program, students must successfully complete MAT 143. For transfer to a Bachelor of Science degree program, students must successfully complete MAT 171. Please see your faculty advisor for further details.

**For transfer to a 4-year degree program ACC 120 – Principles of Accounting must be taken in lieu of BUS 139 or BUS 230
Selected Construction Management Course Descriptions

CMT 120  Codes and Inspections
This course covers building codes and the code inspections process used in the design and construction of residential and commercial buildings. Emphasis is placed on commercial, residential and accessibility (ADA) building codes. Upon completion, students should understand the building code inspections process and apply building code principles and requirements to construction projects.

CMT 210  Construction Management Fundamentals
This course introduces the student to the fundamentals of effective supervision emphasizing professionalism through knowledge and applied skills. Topics include safety, planning and scheduling, contracts, problem-solving, communications, conflict resolution, recruitment, employment laws and regulations, leadership, motivation, teamwork, discipline, setting objectives, and training. Upon completion, students should be able to demonstrate the basic skills necessary to be successful as a supervisor in the construction industry.

CMT 212  Total Safety Performance
Co-requisite: CMT 210
This course covers the importance of managing safety and productivity equally by encouraging people to take individual responsibility for safety and health in the workplace. Topics include safety management, controlling construction hazards, communicating and enforcing policies, OSHA compliance, personal responsibility and accountability, safety planning, training, and personal protective equipment. Upon completion, the student should be able to properly supervise safety at a construction job site and qualify for OSHA Training Certification.

CMT 214  Planning and Scheduling
Prerequisites: CMT 210 and BPR 130
This course covers the need for and the process of planning construction projects, as well as the mechanics and vocabulary of project scheduling. Topics include project preplanning, scheduling formats, planning for production, short interval planning, schedule updating and revising, and computer-based planning and scheduling. Upon completion, the student should be able to understand the need for planning and scheduling, the language and logic of scheduling, and the use of planning skills.

CMT 216  Costs and Productivity
Prerequisite: CMT 210
This course covers the relationships between time, work completed, work-hours spent, schedule duration, equipment hours and materials used. Topics include production rates, productivity unit rates, work method improvements and overall total project cost control. Upon completion, the student should be able to demonstrate an understanding of how costs may be controlled and productivity improved on a construction project.

CMT 218  Human Relations Issues
Prerequisite: CMT 210
This course provides instruction on human relations issues as they relate to construction project supervision. Topics include relationships, human behavior, project staffing issues, teamwork, effective communication networks, laws and regulations, and identifying and responding to conflict, crisis, and discipline. Upon completion, the student will demonstrate an understanding of the importance of human relations in the success of a construction project.

BPR 130  Print Reading-Construction
This course covers the interpretation of prints and specifications that are associated with design and construction projects. Topics include interpretation of documents for foundations, floor plans, elevations and related topics. Upon completion, students should be able to read and interpret construction prints and documents.

CST 111  Construction I
This course covers standard and alternative building methods to include wall framing. Topics include safety and footings, foundations, floor framing systems and wall framing systems commonly used in the construction industry. Upon completion, students should be able to safely erect all framing necessary to begin roof framing.

CST 150  Building Science
This course introduces concepts and techniques for the design and interaction of the mechanical systems of high performance buildings. Topics include building envelope; heating, ventilation and air conditioning (HVAC); indoor air quality; lighting; plumbing; and electrical. Upon completion, students should be able to understand building systems interaction and performance.

CST 241  Planning/Estimating I
Prerequisite: BPR 130, MAT 120, MAT 121, MAT 161, MAT 171, or MAT 175
This course covers the procedures involved in planning and estimating a construction/building project. Topics include performing quantity take-offs of materials necessary for a building project. Upon completion, students should be able to accurately complete a take-off of materials and equipment needs involved in a construction project.

SST 140  Green Building and Design Concepts
This course is designed to introduce the student to sustainable building design and construction principles and practices. Topics include sustainable building rating systems and certifications, energy efficiency, indoor environmental quality, sustainable building materials and water use. Upon completion, students should be able to identify the principles and practices of sustainable building design and construction.