



Pathway: Construction

Plan of Study: Construction

Career Goal (O*Net Code): Examples:

Construction Manager (11-9021), Cost Estimator (13-1051), Civil Engineer (17-2051), Construction/Building Inspector (47-4011).

Suggested High School Courses

High School * Default includes CDHE Higher Education Admission Requirements	9 th	Core Academic Courses*:	Language Arts 9, Geography/Civics 9, Biology 1/Earth Science, (or Honors for Freshman Academy), Algebra, Computer Applications (.5), Health and/or PE (1)	Suggested Electives:
		Career Path Courses:	Engineering/Manufacturing (.5)	
	10 th	Core Academic Courses*:	Sophomore LArts or Honors, World History, Physics/Chemistry, Geometry, Health or PE (.5)	Suggested Electives: Multi-Language
		Career Path Courses:	Intro to Business (.5)	
	11 th	Core Academic Courses*:	Junior LArts, US History or AP, Science Sequence, Algebra 2	Suggested Electives:
		Career Path Courses:	Construction Technology (2)***	
	12 th	Core Academic Courses*:	Senior LArts, Health or PE (.5)	Suggested Electives: Multi-Language Business Finance (.5) or Life Mgt (.5) Suggested internship (.5)
		Career Path Courses:	Construction Technology (2)***	

Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	Postsecondary Credit Options: Construction Technology*** dual enrollment with Aims Community College
	Industry Recognized Certificate(s) or License(s): Contractor License required in some states Contractor Certifications include: American Institute of Contractors (AIC), Construction Specifications Institute (CIS)

Postsecondary Programs Available in Colorado

Colorado Institutions

Entrance Exams/ Requirements

Postsecondary Education Opportunities	Certificate	Carpentry, Fine Woodworking, Construction Technology, Plumbing, Welding, Heating, Vent, Air Conditioning, Refrigeration and Air Conditioning, Electrician Occupations, Electronics Technology, Property Maintenance Technician, Cabinet Making / Millwork, Electric Lines Worker, Computer Aided Drafting & Design (CAD), Glazier Apprenticeship, Painting Apprenticeship, Brick Layer Apprenticeship, Sheet metal Apprenticeship, Inside Electrician, Industrial Maintenance Technology, Facilities Maintenance Technology	AVS: Emily Griffith Opportunity School, Pickens Technical College, San Juan Basin Technical College Community Colleges/ Colleges: Aims CC, Arapahoe CC, Red Rocks CC, Morgan CC, Front Range CC, Mesa State, CC of Denver, Pueblo CC, Western Colorado CC, Pikes Peak CC, Colorado Northwestern CC, Trinidad State Jr. College	High School diploma/GED
	Associate Degree	Carpentry, Woodworking, Construction Technology, Plumbing, Welding Technology, Heating, Vent, Air Conditioning, Industrial Electrician, Electrical Technology, Computer Aided Drafting & Design (CAD), Facilities Maintenance Technology, Energy Maintenance Technology, Civil Engineering Technology	AVS: Emily Griffith Opportunity School, Pickens Technical College, San Juan Basin Technical College Community Colleges/Colleges: Aims CC, Arapahoe CC, Red Rocks CC, Morgan CC, Front Range CC, Mesa State, CC of Denver, Pueblo CC, Western Colorado CC, Pikes Peak CC, Colorado Northwestern CC, Trinidad State Jr. College	High School diploma/GED
	Bachelor Degree	Geography - Urban Studies & Planning, Construction Management, Architectural Engineering, Architecture, Entrepreneurship and Small Business Management, Engineering Management, Civil, Electrical, Environmental & Mechanical Engineering	For more information about colleges that have these programs go to www.CollegeinColorado.org	See each school's Admissions website.
	Graduate Degree	Urban & Regional Planner, MURP, Urban Design, MUD, Architecture, M. Arch., Construction Management, MS, Civil, environmental, architectural engineering, MS, ME, PhD, Engineering Management, MS, PhD, Engineering Management	For more information about colleges that have these programs go to www.CollegeinColorado.org	See each school's Admissions website.

Career & Technical Education is delivered through the Colorado Community College System

www.cccs.edu



COLORADO COMMUNITY COLLEGE SYSTEM

Cluster Overview: The **Architecture and Construction Career Cluster** prepares students for careers in designing, planning, managing, building and maintaining the built environment.

Extended Learning Experiences

<p>Curricular Experiences:</p> <p>Examples: SkillsUSA Technology Student Association</p>	<p>Extracurricular Experiences:</p> <p>Examples: Association of General Contractor Conferences Architectural/Engineering Summer Camps Home Tours Historic Building Tours Student Council</p>
<p>Work-Based Learning Experiences:</p> <p>Career Preparation – Paid and Unpaid, Job Shadowing, Internships</p>	<p>Program Accreditation and/or Professional Association(s):</p> <p>Examples: American Institute of Contractors, American Welding Society, Associated Builders and Contractors, Associated General Contractors, Construction Management Association, Design Build Institute of America, Mechanical Electrical Contractors of America, National Association of Homebuilders, National Electrical Manufacturers Association, Society of Women in Construction</p>
<p>Service Learning Experiences:</p> <p>Example: Habitat for Humanity</p>	

Career Options:		Salary Range:
Certificate	Carpenters, Concrete Finishers, Floor Sander/Finishers Landscapers, Glaziers, Iron/Metal Workers, Painters, Roofers, Brickmasons, Welders	\$\$
Associate Degree	Independent Specialty Contractors, Mechanic Cost Estimators, Carpenters, Electricians, Maintenance Schedulers/Clerks, Engineering Technicians, HVAC Mechanics, Plumbers, Refrigeration Mechanics, Security Controls Managers	\$\$
Bachelor Degree	Administrative Services Managers, Building Inspectors, Cost Estimators, Construction Managers, Environmental Engineers	\$\$\$
Graduate Degree	Environmental Engineers, Civil Engineers, Urban & Regional Planners, Instructors/Professors of Engineering	\$\$\$ - \$\$\$\$

\$ = \$15-25,000; \$\$ = \$25-55,000; \$\$\$ = \$55-90,000; \$\$\$\$ = Above \$90,000

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