



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	9 th	Core Academic Courses*:	Freshman English , Algebra I or Intro to Algebra, Earth Science, Civics Responsibility, Health and Wellness, Skills for Success or JROTC Let I, Computer Applications.	Suggested Electives: Art and Design, Food Fact and Prep.
		Career Path Courses:	A vocational Woods I	
10 th	Core Academic Courses*:	Soph. English, Algebra II, Biology, World Language I	Suggested Electives: World History, Vocational Welding, A vocational Machine Shop, Advanced Computer Applications	
	Career Path Courses:	A vocational Wood II and Drafting		
11 th	Core Academic Courses*:	American Studies/Literature, Geometry or Intermediate Algebra, Chemistry or Environmental Science	Suggested Electives: Psychology, Life Fitness, Manufacturing Tech I	
	Career Path Courses:	Carpentry I		
12 th	Core Academic Courses*:	Senior English, Trigonometry or one additional Math course, American Government.	Suggested Electives: Manufacturing Tech II, Career Development and Training, General Business	
	Career Path Courses:	Construction II		

Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	<p>Postsecondary Credit Options: Carpentry I and II are dual credit options through Trinidad State Junior College, Dual; Credit is also available for Manufacturing Tech I and II through Pueblo Community College.</p>
	<p>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)</p>

Postsecondary Education Opportunities	Postsecondary Programs Available in Colorado		Colorado Institutions	Entrance Exams/ Requirements
	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	<p>AVS: Emily Griffith Opportunity School, Pickens Technical College, San Juan Basin Technical College</p> <p>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</p>	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	<p>AVS: Emily Griffith Opportunity School, Pickens Technical College, San Juan Basin Technical College</p> <p>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</p>	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:	
Certificate	Salary Range:
<p>Carpenters, Concrete Finishers, Floor Sander/Finishers Landscapers, Glaziers, Iron/Metal Workers, Painters, Roofers, Brickmasons, Welders</p>	<p>\$\$</p>
<p>Independent Specialty Contractors, Mechanic Cost Estimators, Carpenters, Electricians, Maintenance Schedulers/Clerks, Engineering Technicians, HVAC Mechanics, Plumbers, Refrigeration Mechanics, Security Controls Managers</p>	<p>\$\$</p>
<p>Administrative Services Managers, Building Inspectors, Cost Estimators, Construction Managers, Environmental Engineers</p>	<p>\$\$\$</p>
<p>Environmental Engineers, Civil Engineers, Urban & Regional Planners, Instructors/Professors of Engineering</p>	<p>\$\$\$ - \$\$\$\$</p>
	<p>\$\$\$</p>

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

*CANON CITY RE-1 does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities.
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