



Pathway: Construction

Plan of Study: Construction Technology

Career Goal (O*Net Code): Carpenter (47-2031.01) , Electrician (47-2111.00) , Plumber (47-2152.02) , Architect (17-3011.01) Construction Manager (11-9021), Cost Estimator (13-1051), Civil Engineer (17-2051), Construction/Building Inspector (47-4011)

Suggested High School Courses

Pueblo City Schools – High School				
Pueblo City Schools – High School	9 th	Core Academic Courses*:	Freshman Literature and Composition, Introduction to Biology, Algebra I, Geography/Civics, Health, Freshman Seminar	Suggested Electives: Art, Band, Choir, Computer Applications, Principles of Business
		Career Path Courses:	Drafting I (CAD), Construction Technology I	
	10 th	Core Academic Courses*:	Sophomore Composition and Literature, Integrated Earth and Physical Science, U.S. History, Geometry, Information Technology, Spanish 1 or French 1	Suggested Electives: Art, Band, Choir, Advanced Computer Applications, Business Finance
		Career Path Courses:	Drafting I (CAD), Construction Technology I, OR Drafting II (CAD), Construction Technology II	
	11 th	Core Academic Courses*:	Vocabulary and Grammar/Expository Review, Biology 1, Intermediate Algebra or Algebra 2, World History, PE,	Suggested Electives: Journalism, Spanish 2 or French 2, Astronomy, Fundamentals of Accounting, Marketing Education
		Career Path Courses:	Drafting II (CAD), Construction Technology II OR Drafting III (CAD) Honors, Construction Technology III	
12 th	Core Academic Courses*:	English Communications, Chemistry I, Algebra 2, PE	Suggested Electives: Psychology, American Problems, Spanish 3 or French 3, Physics, Advance Marketing Education	
	Career Path Courses:	Drafting III (CAD) Honors, Construction Technology III		

Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	Postsecondary Credit Options: Advanced Credit Pathway courses with PCC (under construction!)
	Industry Recognized Certificate(s) or License(s): American Design Drafting Association certification Certified SolidWorks Associate

		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, Arapahoe, Red Rocks, Morgan, Front Range, Mesa State, CC of Denver, Pueblo, Western Colorado, Pikes Peak, Colorado Northwestern, 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, Arapahoe, Red Rocks, Morgan, Front Range, Mesa State, CC of Denver, Pueblo, Western Colorado, Pikes Peak, Colorado Northwestern, 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	University of Colorado-Denver, Colorado State University, University of Colorado - Boulder, Fort Lewis College, Colorado School of Mines, More options: collegeincolorado.com	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	University of Colorado-Denver, Colorado State University, University of Colorado - Boulder, University of Colorado - Colorado Springs, More options: collegeincolorado.com	See each school's Admissions website.

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

Curricular Experiences: SkillsUSA	Extracurricular Experiences: Home tours Historic building tours Student council
Work-Based Learning Experiences: Partner with Habitat for Humanity building houses in Pueblo area	Program Accreditation and/or Professional Association(s):
Service Learning Experiences: School-based projects for example: building sets for drama productions, prom and homecoming, building cabinets, building toys for ESS program	

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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