



Pathway: Construction

Plan of Study: Construction Project Manager

Career Goal (O*Net Code): Construction Manager (11-9021), Drywall Installers (47-2081.00), Construction Laborers (47-2061.00), Helpers-Carpenters (47-3012.00), Painters, Construction and Maintenance (47-2141.00)

Suggested High School Courses

High School * Default includes CDHE Higher Education Admission Requirements	9 th	Core Academic Courses*:	English I, Algebra I, Earth Science, World Cultures	Suggested Electives: Computer Applications I Physical Education
		Career Path Courses:	Drafting (sem. 1), Introduction to Building Trades (sem. 2) -or- Construction Maintenance Tech.	
	10 th	Core Academic Courses*:	English II, Geometry, Biology, US History, Foreign Language I	Suggested Electives: Computer Applications II
		Career Path Courses:	Building Trades and Design I -or- Advanced Construction Maint. Tech.	
	11 th	Core Academic Courses*:	English III, Algebra II, Chemistry	Suggested Electives: Entrepreneurship Advanced Computers -or- Accounting I
		Career Path Courses:	Cooperative Occupational Education(COE I), Building Trades and Design II -or- Adv. Const. Maint. Tech.	
	12 th	Core Academic Courses*:	English IV -or- Eng. Comp. I and II, College Algebra (sem.1) and College Trig. (sem.2), Physics -or- Chemistry II	Suggested Electives: Psychology/ Sociology College Accounting
		Career Path Courses:	Building Trades and Design III -or- Adv. Const. Maint. Tech. Cabinet Making I or II -or- COE II	

Secondary to Postsecondary Linkages & Certifications

n for Advanced Learning	Postsecondary Credit Options: Already listed above: College Algebra, College Trigonometry, English Composition I and II, College Accounting.
	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 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	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.
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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>SkillsUSA And/OR Future Business Leaders of America</p>	<p>Extracurricular Experiences:</p> <p>Student Council Class Officer Drama Productions, set building and lighting and/or acting Speech and Debate</p>
<p>Work-Based Learning Experiences:</p> <p>FBLA Shadow Day Construction Internship in Advanced Construction Maintenance Technology or COE II</p>	<p>Program Accreditation and/or Professional Association(s):</p> <p>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>Burlington Elementary School – After School Enrichment Program BES – Christmas Stockings BHS Building Projects Prom Building Drama set building</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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