



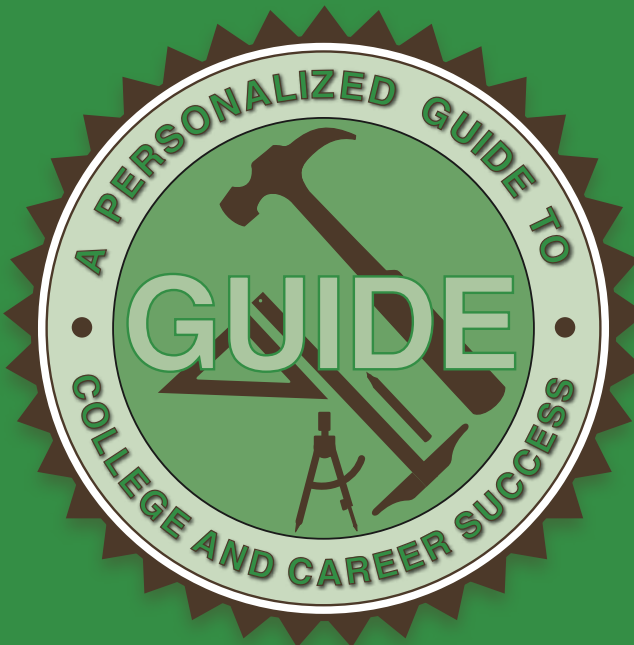
PLAN OF STUDY

CONSTRUCTION TECHNOLOGY

Construction

PATHWAY: **Construction**

PLAN OF STUDY: **Construction
Technology**





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	9th	Core Academic Courses*:	9th Literature & Composition, Geometry, Integrated Physical Earth & Space, US History 1	Suggested Electives:	Art, Band, Choir, Computer Applications, Principles of Business
		Career Path Courses:	Drafting I (CAD) or Honors Engineering I, Construction Technology I		
10th	10th	Core Academic Courses*:	10th Composition & Literature, Algebra 2, Biology 1, World Language 1, US History 2	Suggested Electives:	Art, Band, Choir, Advanced Computer Applications, Business Finance
		Career Path Courses:	Drafting I (CAD), Construction Technology I, OR Drafting II (CAD) or Honors Engineering II, Construction Technology II		
11th	11th	Core Academic Courses*:	Vocabulary/Grammar/Expos Review, Trigonometry, Chemistry 1, World Language 2, World History	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 or Honors Engineering III, Construction Technology III		
12th	12th	Core Academic Courses*:	English 101/102 STS, College Algebra, Physics 1 Honors, World Language 3, Economics	Suggested Electives:	Psychology, American Problems, Spanish 3 or French 3, Physics, Advanced Marketing Education
		Career Path Courses:	Drafting III (CAD) Honors or Honors Engineering IV, 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 Building Information Modeling certification Pueblo County Contractor's License

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, Arapahoe, Red Rocks, Morgan, Front Range, Mesa State, CC of Denver, Pueblo, Western Colorado, Pikes Peak, Colorado Northwestern, Trinidad State Jr. College
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.	

These Colorado institutions do not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities. Please direct inquiries to the Colorado institution's AA/EEO officer.

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

Pueblo City Schools does not discriminate on the basis of disability, race, color, religion, sex, national origin, or age in access to, employment in, or in the provision of any of Pueblo City Schools' programs, benefits, or activities. Inquiries regarding Pueblo City Schools' compliance with Title IX, Section 504, Title VI, Title VII, Americans with Disabilities Act – 1990, and Affirmative Action may be referred to the Equal Employment Opportunity/Affirmative Action Compliance Officer for Pueblo City Schools, 315 West 11th St., Pueblo, CO (719-549-7162).

Si hay preguntas sobre esta informacion por favor de llamar la escuela de su niños.



Personal Learning Plan

Student Information

Name _____

Career Cluster or Career Pathway of Interest _____

Plan Last Reviewed On: ____/____/____ Grade: 7 8 9 10 11 12

Coursework

	Middle School	9th Grade	10th Grade	11th Grade	12th Grade	Advanced Coursework	PCS Diploma with CTE endorsement (credits earned)
Language Arts							
Math							
Science							
Social Studies							
Career & Tech Courses							
Additional Requirements & Electives							

Extended Learning

	Middle School	9th Grade	10th Grade	11th Grade	12th Grade	Advanced Coursework	PCS Diploma with CTE endorsement (credits earned)
School Activities							
Community Activities							
Work-based Learning/ Experience							