


Del Norte

	<b>Pathway: Construction</b>
	<b>Plan of Study: Carpentry</b>

**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				
<b>High School</b> * Default includes CDHE Higher Education Admission Requirements	9 <sup>th</sup>	<b>Core Academic Courses*:</b>	English I, Algebra I, Earth or Environmental Science, State History/Civics	Suggested Electives: Woods I
		<b>Career Path Courses:</b>	Introduction to the Built Environment	
	10 <sup>th</sup>	<b>Core Academic Courses*:</b>	English II, Geometry, Biology, US History, Foreign Language I	Suggested Electives: Woods II
		<b>Career Path Courses:</b>	The Language of Architecture & Construction, Information Technology Applications	
	11 <sup>th</sup>	<b>Core Academic Courses*:</b>	English III, Algebra II/ or other, Chemistry	Suggested Electives: Woods III
		<b>Career Path Courses:</b>	Safety, Health and the Workplace Environment, Principles of Construction	
	12 <sup>th</sup>	<b>Core Academic Courses*:</b>	English IV, Trigonometry or other Math, Botany or other lab based science	Suggested Electives: Construction Tech
		<b>Career Path Courses:</b>	Applications in Construction	

Secondary to Postsecondary Linkages & Certifications	
<b>Recognition for Advanced Learning</b>	<b>Postsecondary Credit Options:</b> ACP, Dual Credit, PSEO, Articulated Credit
	<b>Industry Recognized Certificate(s) or License(s):</b> 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		Entrance Exams/ Requirements
	Certificate	Colorado Institutions	
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, Sheetmetal Apprenticeship, Inside Electrician, Industrial Maintenance Technology, Facilities Maintenance Technology	<b>AVS:</b> Emily Griffith Opportunity School, Pickens Technical College, San Juan Basin Technical College <b>Community Colleges/ Colleges:</b> 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/GE D
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	<b>AVS:</b> Emily Griffith Opportunity School, Pickens Technical College, San Juan Basin Technical College <b>Community Colleges/Colleges:</b> 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/GE D



Bachelor Degree	Geography - Urban Studies & Planning, Construction Management, Architectural Engineering, Architecture, Entrepreneurship and Small Business Management, Engineering Management, Civil, Electrical, Environmental & Mechanical Engineering	CSU & CU For more information about colleges that have these programs go to <a href="http://www.CollegeinColorado.org">www.CollegeinColorado.org</a>	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	CSU & CU. For more information about colleges that have these programs go to <a href="http://www.CollegeinColorado.org">www.CollegeinColorado.org</a>	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:**

Examples:  
SkillsUSA  
Technology Student Association

**Extracurricular Experiences:**

Examples:  
Association of General Contractor Conferences  
Architectural/Engineering Summer Camps  
Home Tours  
Historic Building Tours  
Student Council

**Work-Based Learning Experiences:**

Career Preparation – Paid and Unpaid, Job Shadowing, Internships

**Program Accreditation and/or Professional Association(s):**

HBA of the upper Rio Grande  
BA of Pagosa Springs  
HBA of south west Colorado  
Nation Association of Home Builders

**Service Learning Experiences:**

Example: Habitat for Humanity

**Career Options:**

**Salary Range:**

	Career Options:	Salary Range:	
Certificate	Carpenters, Concrete Finishers, Floor Sander/Finishers Landscapers, Glaziers, Iron/Metal Workers, Painters, Roofers, Brickmasons, Welders	VALLEY \$	NATIONAL \$\$
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

*Insert Institution Name Here* does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities. Please direct inquiries to: *Insert name, address and telephone number of AA/EEO officer*