



Pathway: Design/Pre-Construction DRAFT

Plan of Study: Architect

Career Goal (O*Net Code): Examples: Architect (17-1011), Civil Engineer (17-2051).

Suggested High School Courses

High School <small>* Default includes CDHE Higher Education Admission Requirements</small>	9 th	Core Academic Courses*:	English 9, World Civilizations, Intro to Geography, Algebra I, Introduction to Physical Science, Integrated Science	Suggested Electives: Business Principles Career Connections Business Tech 1
		Career Path Courses:	Tech Studies, Design Projects, Beginning Woods,	
	10 th	Core Academic Courses*:	English 10, US History (Electives: Anthropology, World Geography), Geometry or Algebra 11 Biology, Astronomy (Elective) Foreign Language I	Suggested Electives: Business Principles Career Connections Business Tech 1 Advanced Business Tech 2 Web Design 1
		Career Path Courses:	Tech Studies, Design Projects, Beginning Woods, Advanced Woods, Digital Photography	
	11 th	Core Academic Courses*:	English Elective (American Literature, Journalism, Creative Writing, Drama/Debate, etc.), Western Civilization or AP European History (Electives: AP Human Geography, Anthropology, Colorado History, World Religions, Film History, Intro to Law, Russian History, Sociology, World Geography, or Psychology), Algebra II, Probability and Statistics or Pre-Calculus, Chemistry, (Electives: Astronomy, Zoology, Plant Science, Genetics or Meteorology)	Suggested Electives: Arapahoe Douglas Career and Technical School. www.actsinfo.org Business Tech 1 Advanced Business Tech 2 Integrated Bus Tech 3 Web Design 1 or 11
		Career Path Courses:	Tech Studies, Design Projects, Beginning Woods, Advanced Woods, Advanced Graphic Design, Digital Photography	
	12 th	Core Academic Courses*:	English Literature, World Literature, Government, Economics/Civics (Electives: AP Human Geography, Anthropology, Colorado History, World Religions, Film History, Intro. to Law, Russian History, Sociology, World Geography or Psychology), Trigonometry, Pre-Calculus, Probability and Statistics, Calculus or AP Statistics Physics, (Electives: Astronomy, Zoology, Plant Science, Genetics or Meteorology)	Suggested Electives: Arapahoe Douglas Career and Technical School. www.actsinfo.org Business Tech 1 Advanced Business Tech 2 Integrated Bus Tech 3 Web Design 1 or 11
		Career Path Courses:	Any above Tech Ed classes or other CTE Course, Academic Internship/ Community Employment Experience/ PET; ACTS, PSEO	

Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	Postsecondary Credit Options: ACP (Advanced Credit Pathway), PSEO (Post Secondary Enrollment Options - 11 th and 12 th grade, up to two classes/semester for 2 years),
	Industry Recognized Certificate(s) or License(s): All states require Architects to be licensed.

Postsecondary Programs Available in Colorado

Colorado Institutions

Entrance Exams/ Requirements

Postsecondary Education Opportunities	Certificate	Architecture & Construction Technology, Architectural Technologies, Computer Aided Drafting & Design (CAD), Engineering Graphics Technology, Engineering Technology, Civil Engineering Technology	AVS: Pickens Technical College, Emily Griffith Opportunity School Community Colleges/Colleges: Front Range CC, Pikes Peak CC, Arapahoe CC, Western Colorado CC, Red Rocks CC, Aims CC, Pueblo CC, Trinidad State Junior College, Colorado Mountain College	High School diploma or GED
	Associate Degree	Architecture & Construction Technology, Architectural Technologies, Computer Aided Drafting & Design (CAD), Engineering Graphics Technology, Applied Science - General, Engineering Technology	Front Range CC, Pikes Peak CC, Arapahoe CC, Western Colorado Community College, Red Rocks Comm. College, Aims Community College, Pueblo Community College, Trinidad State Junior College	High School diploma or GED

Career & Technical Education is delivered through the Colorado Community College System

www.cccs.edu



Bachelor Degree	Landscape Architecture, Civil Engineering, Architectural Engineering, Architecture, Civil Engineering, Civil, Electrical, Environmental & Mechanical Engineering, Civil Engineering Technology	For more information about colleges that have these programs go to www.CollegeinColorado.org	See each school's Admissions website.
Graduate Degree	Horticulture and Landscape Architecture, MS, Civil, environmental & architectural engineering, MS & PhD, Civil Engineering, MS, ME, PhD, Architecture, M. Arch., Landscape Architecture, M.L.A., Civil Engineering, MS, PhD	For more information about colleges that have these programs go to www.CollegeinColorado.org	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

<p>Curricular Experiences:</p> <p>Technology Student Association Family, Career and Community Leaders of America</p>	<p>Extracurricular Experiences:</p> <p>:</p> <p>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, Community Employment Experience, Informational Interviews and Academic Internship.</p>	<p>Program Accreditation and/or Professional Association(s):</p> <p>Examples: American Institute of Architects American Institute of Contractors Associated Builders and Contractors Associated General Contractors Construction Management Association Design Build Institute of America Society of Women in Construction Colorado Society of Architects</p>
<p>Service Learning Experiences:</p> <p>Example: Habitat for Humanity</p>	

Career Options:		Salary Range:
Certificate	Architectural Drafters, Civil Drafters Model Builder, Renderer	\$\$ - \$\$\$ \$ - \$\$
Associate Degree	Building Code Official, Surveying Mapping Technician, Civil Engineering Technicians	\$ - \$\$\$

Bachelor Degree	Cost Estimator, Electrical Engineer, Landscape Designer, Urban Planner	\$\$ - \$\$\$
Graduate Degree	Architects, Civil Engineers, Industrial Designer, Preservationist, Structural Engineer, Instructor/Professor	\$\$ - \$\$\$\$

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

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