



**Cluster Overview:** Focuses on careers in designing, planning, managing, building and maintaining the built environment.

# Construction

**Career Goal (O\*NET Code):** **Construction Manager** (11-9021), Project Manager (11-9021), Construction Foreman (47-1011), Equipment/Material Manager (11-9021/11-3061), Cost Estimator (13-1051).

**Student Name:** \_\_\_\_\_

**Grade:** \_\_\_\_\_

**School:** \_\_\_\_\_

SUGGESTED COURSEWORK					EXTENDED LEARNING EXPERIENCES				
Middle School	8th	HS Courses:				<b>Curricular Experiences:</b> <a href="#">SkillsUSA</a> <a href="#">Technology Student Association</a>  <b>Career Learning Experiences:</b> Apprenticeship Career Preparation Internship Job Shadowing  <b>Service Learning Experiences:</b> Architectural/Engineering Summer Camps Campus Service Organizations Community Service Volunteer Habitat for Humanity Peer Mentoring / Peer Tutoring		<b>Extracurricular Experiences:</b> Association of General Contractor Conferences Historic Building Tours Home Tours Language Immersion Programs Student Government UIL Academic Competitions Yearbook	
	9th	Core Courses:	English I Algebra I Biology	World Geography Physical Education Languages other than English I	Professional Communications				
		Career-Related Electives:	Principles of Architecture and Construction						
	10th	Core Courses:	English II Geometry Chemistry	World History Languages other than English II					
		Career-Related Electives:	Construction Technology or Architectural Design						
	11th	Core Courses:	English III Algebra II Physics or Principles of Technology I	United States History					
		Career-Related Electives:	Career Preparation I or Advanced Architectural Design						
	12th	Core Courses:	English IV Precalculus Environmental Systems	Government/Economics Fine Arts					
		Career-Related Electives:	Career Preparation II or Practicum in Architectural Design or Human Resources Management						
	High School	On-the-Job Training	Heating Ventilation Air Conditioning Cabinetmaking/Millworking NOTE: These experiences may be started and/or completed as part of the high school experience.	Drafting/CAD Electrical Trades Floor Sanding/Finishing	Masonry Painting Plumbing				
Certificates		OSHA CareerSafe Construction Trades NOTE: Students may earn all or part of these certificates as part of the high school experience.	National Occupational Competency Testing Institute-Construction Trades	North American Technician Excellence Installation Technician	<b>Career Options:</b> Carpenter/Roofer Concrete Finisher	Iron Worker Crane & Tower Operator Highway Maintenance Worker			
<b>COLLEGE CREDIT OPPORTUNITIES -- High School</b> Students should take Advanced Placement (AP), International Baccalaureate (IB), dual credit, Advanced Technical Credit (ATC), or locally articulated courses (Tech Prep), if possible. List those courses that count for college credit on your campus.									
Postsecondary	Associate Degrees	<a href="#">Architectural Drafting</a> <a href="#">Construction Management</a> <a href="#">Construction Technology</a> <a href="#">Drafting</a>	<a href="#">Electrical Engineering</a> <a href="#">Engineering Technology</a> <a href="#">Management</a>	<a href="#">Plumbing/HVAC</a> <a href="#">Surveying</a> <a href="#">Welding Technology</a>	<b>Career Options:</b> Carpenter/Electrician/Plumber Building Inspector		HVAC Cost Estimator Welding Inspector	<a href="#">Associated Builders and Contractors</a> <a href="#">Associated General Contractors of America</a> <a href="#">Construction Management Association</a> <a href="#">Design Build Institute of America</a> <a href="#">Mechanical Contractors of America</a> <a href="#">National Association of Home Builders</a> <a href="#">National Association of Women in Construction</a> <a href="#">National Electrical Manufacturers Association</a> <a href="#">Texas Association of Builders</a> <a href="#">United Association of Plumbers and Pipefitters</a>	
	Bachelor Degrees	Accounting Architecture Construction	Engineering Management	Science/Management Urban Planning	<b>Career Options:</b> Construction Manager Cost Estimator		Marketing Manager Sales Representative/Manager		
	Graduate Degrees	Architecture Construction	Engineering Management	Science/Management Urban Planning	<b>Career Options:</b> Engineer		Construction Entrepreneur		

Students may select other elective courses for personal enrichment purposes.

This plan of study serves as a guide, along with other career planning materials, for pursuing a career path and is based on the most recent information as of 2009. All plans meet high school graduation requirements as well as college entrance requirements.