

Construction Technology

Career Goal: *Carpentry, Building Trades* .

Cluster Overview: The Construction Technology Cluster focuses on careers in designing, planning, managing, building and maintaining the built environment.

SUGGESTED COURSEWORK

EXTENDED LEARNING EXPERIENCES

High School	9th	Core Courses:	Algebra I Earth Science	Intro. To Social Sciences Freshman English I PE	Curricular Experiences: SkillsUSA TSA Family, Career and Community Leaders of America Career Learning Experiences: Career Preparation (Paid/Unpaid): Job Shadowing Internship Apprenticeship	Extracurricular Experiences: Association of General Contractor Conferences Architectural/Engineering Summer Camps Home Tours Historic Building Tours Student Council Service Learning Experiences: Habitat for Humanity U.A.C.O.G.
		Career-Related Electives:	Introduction to Construction Trades or cad I* or Applie Tech and Intro to Woods.			
	10th	Core Courses:	English II Geometry Chemistry	World History/Geography Languages other than English II Technology Applications		
		Career-Related Electives:	Technology Systems (Modular Based Lab)** or Painting and Decorating or Architectural graphics or Architectural Construction or Architectural Drafting I*			
	11th	Core Courses:	English III Algebra II Principles of Technology I	United States History Communication Applications PE or Equivalent		
		Career-Related Electives:	Architectural CAD* or Building Trades I* or Career Preparation I*			
	12th	Core Courses:	English IV Precalculus Engineering	Government/Economics Fine Arts		
		Career-Related Electives:	Building Trades II* or Housing, Furnishing & Equipment Production or Management & Services II or Career Preparation II*			
Postsecondary	On-the-Job Training	Air Conditioning, Heating & Refrigeration Cabinetmaking/Millworking Carpentry	Decorator Design Assistant Construction Trades Drafting/Computer Aided Drafting Electrical Trades	Home Improvement Sales Clerk Masonry Plumbing Sales Clerk - Furnishings/Equipment	Professional Associations: American Institute of Architects American Institute of Contractors Associated Builders and Contractors Associated General Contractors Construction Management Association Design Build Institute of America National Association of Homebuilders Society of Women in Construction	
	Certificates	Carpenter Apprenticeship OSHA CareerSafe	North American Technician Excellence Installation Technician National Center for Construction Education Research-Construction Trades	National Occupational Competency Testing Institute-Construction Trades		
	NOTE: These experiences may be started and/or completed as part of the high school experience.	NOTE: Students may earn all or part of these certificates as part of the high school experience.				
Postsecondary	Associate's Degrees	Drafting Construction Technology Design Technology	Housing Studies Architectural Design	Career Options: Building Code Official Drafter Model Builder	Renderer Surveying/Mapping Technician	
	Bachelor's Degrees	Architecture Engineering Construction Management	Environmental Design Interior Environmental Design	Career Options: Cost Estimator Electrical Engineer	Landscape Designer Urban Planner	
	Graduate Degrees	Architecture Engineering Consumer Economics	Environmental Design Historic Preservation	Career Options: Architect Civil Engineer Industrial Designer	Instructor/Professor Preservationist Structural Engineer	

*May substitute for the required credit for Physical Education
 **Satisfies the required credit for Technology Applications

Students should take Advanced Placement (AP), International Baccalaureate (IB), dual credit, Advanced Technical Credit (ATC), or locally articulated courses, if possible.

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 2008. All plans should meet high school graduation requirements as well as college entrance requirements. Students may select other elective courses for personal enrichment purposes.