



Design/Pre-Construction

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

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

SUGGESTED COURSEWORK

EXTENDED LEARNING EXPERIENCES

High School	9th	Core Courses:	English I Algebra I Biology	World Geography Languages other than English I Health/PE or Equivalent	Curricular Experiences: SkillsUSA TSA Family, Career and Community Leaders of America	Extracurricular Experiences: Association of General Contractor Conferences Architectural/Engineering Summer Camps Home Tours Historic Building Tours Student Council Service Learning Experiences: Habitat for Humanity	
		Career-Related Electives:	Introduction to Construction Trades or Drafting I* or Interior Design and Housing or Landscape, Design, Construction and Maintenance or Construction Systems				
	10th	Core Courses:	English II Geometry Chemistry	World History 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 Learning Experiences: Career Preparation (Paid/Unpaid): Job Shadowing Internship Apprenticeship		
		Career-Related Electives:	Architectural Drafting II* or Drafting II* or Building Trades I* or Career Preparation I*				
	12th	Core Courses:	English IV Precalculus Engineering	Government/Economics Fine Arts			
		Career-Related Electives:	Architectural Drafting III* or Drafting III* or 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		
	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			
	Associate's Degrees	15 hours Core Curriculum Design/Pre Design Foundation Introduction to Architecture (ARCH 1X11) OR Art Appreciation (ARTS 1X01) Architectural Freehand Drawing I & II (ARCH 2X01 AND ARCH 2X02) OR Drawing I & II (ARTS 1X16 AND ARTS 1X17) Architectural Computer Graphics (ARCH 1X15) OR Engineering Graphics (ENGR 1X04) Architectural History I & II (ARCH 1X01 AND ARCH 1X02) Architectural Technology I & II (ARCH 2X12 AND ARCH 2X13) Architectural Graphics I & II (ARCH 1X07 AND 1X08) Codes, Specifications, Contract Documents (ARCE 1X42) **Recommendation to develop additional WECM course- Professional Office Practices POS Specific Courses Architectural Design I- Emphasis on Residential Design (ARCH 1X03) Architectural Design II- Emphasis on Commercial Design (ARCH 1X04)		Career Options: Building Code Official Drafter Model Builder Licenses, Certifications & Credentials None identified			
		Bachelor's Degrees	Architecture	Environmental Design		Urban Planning	Career Options: Landscape Designer Urban Planner
			Engineering Construction Management	Interior Environmental Design			
Graduate Degrees	Architecture Engineering Consumer Economics	Environmental Design Historic Preservation		Career Options: Instructor/Professor Preservationist Structural Engineer			

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

Students should take Advanced Placement (AP), International Baccalaureate (IB), dual credit, Advanced Technical Credit (ATC), or locally

This plan of study serves as a guide, along with other career planning materials, for pursuing a career path and