

Architecture & Construction Cluster

Business & Industry Endorsement

Questions to Ask When Exploring Careers:

1. What careers relate to things I like to do?
2. Show me the \$\$! What are the potential salaries of my careers of interest?
3. Are my careers of interest projected to grow? (Job Outlook)

Do you....

- ✓ ever marvel at skyscrapers, sports venues or homes that are designed and built? How did they do that? Who designed that?
- ✓ ever wonder why buildings stand up or wonder why buildings fall down?
- ✓ enjoy drawing, colors or textures?
- ✓ like building models?
- ✓ like problem solving; helping someone realize their project?
- ✓ like to plan, execute, and deliver projects on time?
- ✓ like competition?
- ✓ want to win scholarship money?
- ✓ want to know what schematic design, design development, construction documents, bidding and construction management have to do with Architecture and Construction?
- ✓ want to own your own company related to this industry someday?



Discover Architecture & Construction careers!

The building you are in right now was first designed by an architect in collaboration with a client! The decisions of where to locate the building, the materials to use on the building, and the landscaping unify the exterior of the building to its surroundings. The interior design determines where to place the walls, doorways and windows. The infrastructure includes the electrical, plumbing, air conditioning and heating, which first came from the imagination of the architect! Drawings were developed into plans. Those plans guided the building team during construction taking them from paper to reality! Design your future today in a career in Architecture and Construction.

Sample Fastest Growing Information Technology Careers- Salary Ranges in Texas	Bottom 10% & Under	50%	Top 10% & Up
Architects	\$42,460	\$73,780	\$128,620
Interior Designers	\$31,400	\$56,670	\$99,750
Landscape Architects	\$40,360	\$59,270	\$102,480
Brickmasons	\$29,760	\$40,520	\$50,170
Plumbers & Pipefitters	\$26,020	\$44,580	\$67,660
Carpenters	\$23,900	\$34,530	\$50,920
Electronic Drafters	\$41,300	\$71,650	\$118,250
Construction Workers	\$24,210	\$33,480	\$48,940
Heating, A/C, & Refrigeration	\$26,840	\$40,610	\$61,460

Careers to Consider with a 5+ Year College Degree

- Architect
- Civil Engineer

Careers to Consider with a 4-Year College Degree

- Construction Manager
- Surveyor

With a 2-Year College Degree:

- Architectural & Civil Drafter
- Electrician
- Landscaping & Lawn Service Manager
- Welder

Certificate or HS Diploma

- Construction Trades
- Woodworker



Career Pathways in Architecture & Construction

Pathways and Required Courses					
Architectural Design Guthrie Center Classes must be taken in order listed.	Architectural Design 1 AND Principles of Architecture (Taken concurrently.)	Architectural Design 2	Architectural Design Practicum		Certification: Autodesk AutoCAD Certified User, Autodesk REVIT Architecture Certified User
Construction Technology Classes must be taken in order listed. NHS, SWHS	Jack of All Trades	Construction Technology 1	Construction Technology 2		Certification: OSHA General 10 Hour Certification
Interior Design Classes must be taken in order listed. SHS	Interior Design 1	Interior Design 2	Practicum in Interior Design or Internship in Interior Design related area		Certification: None
Refer to the Spring Branch ISD High School Program of Studies for more detailed information regarding course descriptions, prerequisites, career pathways, endorsements, and certifications.					

Samples of the professional experiences that students will enjoy in our Architecture & Construction courses:

Architecture: • technical drawing and AutoCAD • architectural lettering styles • learn to read architectural drawings • create “as-built” drawings • edit a commercial tenant improvement set • residential design • interior design • exterior design • environmental design • architectural portfolio development

Construction and Jack of All Trades: • carpentry skills • building maintenance • construction management • construction technology skills • skills in safety tools usage, building materials, codes and framing • home repairs and maintenance

Interior Design: • develop skills to create beautiful living environments • learn trends and issues of interior design and housing design elements and principles • color theory • hands on activities related to residential and commercial interior designs

For more information, contact your school counselor or:

Beverly Litton
 Guthrie Center & Career and Technical Education Counselor
Spring Branch Independent School District
The Guthrie Center
10660 Hammerly Blvd., Houston, Texas 77043
Office: 713-251-1303 Fax: 713-251-1315

Sources: Achieve Texas, O*Net Online, Labor Market and Career Information, CareerOneStop.org, U.S. Bureau of Labor & Statistics

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