



Your Guide To Careers In

rchitecture & Construction



11,270 members of the Texas Association of Builders represents 600,000 jobs and \$37 billion of the Texas Economy.



Construct Your Future

5,950 Interior Designers will be working in Texas in 2016 according to the Texas Workforce Commission.



More than 5,000 architects, associates, and former architects, and honorary members belong to the Texas Society of Architects.

Programs of Study



Design/Pre-Construction (i.e. Architect)

Turn a concept into a set of plans. These plans guide other construction professionals as they continue the building process.

Construction (i.e. Construction Manager)

Build and remodel houses, apartments, industrial building, warehouses, office buildings, churches, schools, and recreational facilities. This pathway also includes the builders of highways, streets, and bridges.

Maintenance/Operation (i.e. Building Inspector)

Unload, inspect, and move new equipment into position. Determine the optimal placement of machines in a plant, assemble machinery, install machinery, repair machinery and perform preventive maintenance.

Career Options

Occupation	Education
Landscape Architect	Bachelor's Degree
Architect, except Landscape and Naval	Bachelor's Degree
Surveyor	Bachelor's Degree
Interior Designer	Bachelor's Degree
Construction Manager	Bachelor's Degree
Mechanical Drafter	Postsecondary Award
Architectural and Civil Drafter	Postsecondary Award
Security and Fire Alarm Systems Installer	Postsecondary Award
Cost Estimator	Work Experience in a Related Occupation
Construction and Building Inspector	Work Experience in a Related Occupation
Electrician	Long-Term On-the-Job Training
Carpenter	Long-Term On-the-Job Training
Tile and Marble Setter	Long-Term On-the-Job Training
Brickmason and Blockmason	Long-Term On-the-Job Training
Floor Sander and Finisher	Moderate-Term On-the-Job Training
Roofer	Moderate-Term On-the-Job Training
Drywall and Ceiling Tile Installer	Moderate-Term On-the-Job Training
Highway Maintenance Worker	Moderate-Term On-the-Job Training
Crane and Tower Operator	Moderate-Term On-the-Job Training
Rigger	Short-Term On-the-Job Training
Electrician-Helper	Short-Term On-the-Job Training
Carpenter-Helper	Short-Term On-the-Job Training
Painter, Wallpaperer, Plasterer, and Stucco Mason-Helper	Short-Term On-the-Job-Training
Brickmason, Stonemason, Tile and Marble Setter-Helper	Short-Term On-the-Job-Training

Sample Graduation Plan (26 Credit RHSP)

9 th Grade	10 th Grade	11 th Grade	12 th Grade
English I	English II	English III	English IV
Algebra I	Geometry	Algebra II	4th Year of Math
Biology	Chemistry	Physics	4th Year of Science
World Geography	World History	US History	Government/Economics

The following courses must be included in the personal graduation plan at a time deemed appropriate by the student, parent, and counselor. Please refer to the Katy I.S.D. Planning Guide for additional information.

Communication Applications (1/2 Credit)

Fine Arts (1 Credit)

P.E. (1 Credit)

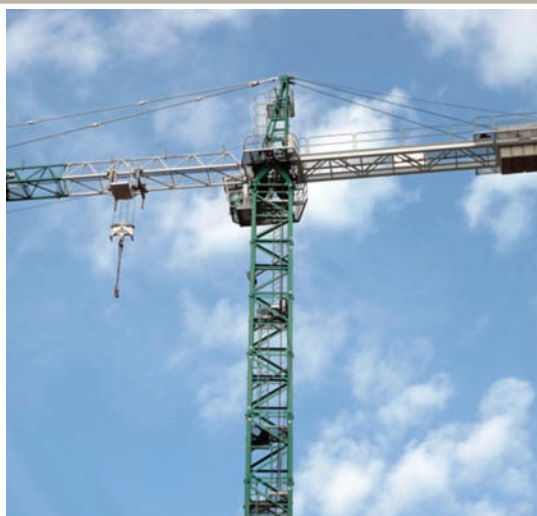
Language Other Than English (2 Credits)

Health (1/2 Credit)

Electives (5 Credits - May Include CTE Elective Options*)

*CTE Elective Options (Note: Course Selection and Sequence Based On Individual Student Interests, Abilities, and Course Availability) See below:

Program of Study	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Design/ Pre-Construction	<ul style="list-style-type: none"> • Concepts of Engineering & Technology <p><i>Also available in 8th Grade</i></p>	<ul style="list-style-type: none"> • Architectural Design 	<ul style="list-style-type: none"> • Construction Technology 	<ul style="list-style-type: none"> • Interior Design and/or Introduction to Engineering Design
Construction	<ul style="list-style-type: none"> • Concepts of Engineering & Technology <p><i>Also available in 8th Grade</i></p>	<ul style="list-style-type: none"> • Architectural Design 	<ul style="list-style-type: none"> • Construction Technology 	<ul style="list-style-type: none"> • Interior Design and/or Introduction to Engineering Design
Maintenance/ Operations	<ul style="list-style-type: none"> • Concepts of Engineering & Technology <p><i>Also available in 8th Grade</i></p>	<ul style="list-style-type: none"> • Architectural Design 	<ul style="list-style-type: none"> • Construction Technology 	<ul style="list-style-type: none"> • Interior Design and/or Introduction to Engineering Design



Advanced Technical Credit Course Crosswalk

The following CTE courses that are offered in Katy I.S.D. may qualify as Advanced Technical Credit Courses (ATC).

Katy I.S.D. CTE Courses	Jr./Community College Equivalent
Construction Technology (8195)	Architectural Blueprint Reading (DFTG 1215 or DFTG 1315)
Interior Design (8198)	Fundamentals of Interior Design (INDS 1311 or INDS 1411)



Student Leadership Organization

Family, Career and Community Leaders of America- FCCLA students travel with friends to events and competitions; practice and test individual skills in local, state and national competitions; and learn to lead. FCCLA members often have career interests in education, food, hospitality, interior decorating, and textiles (sewing, fashion). FCCLA focuses on the roles of family members, wage earners and community leaders. Members develop skills for life including: character development, creative and critical thinking, and interpersonal communication.



FFA

FFA provides challenging coursework and hands-on experiences in agriculture education classes. FFA students participate in leadership programs and career development events that encourage members to become lifelong learners who are prepared, committed and hardworking.

For More Information

The Career & Technical Education Department
6301 South Stadium Lane
Katy, Texas 77492
281-396-2633

Resources

Achieve Texas in Action: A College and Career Planning Guide - Texas Education Agency
Occupational Outlook Handbook - U.S. Department of Labor

It is the policy of Katy ISD not to discriminate on the basis of sex, disability, race, religion, color, gender, age, or national origin in its educational programs and/or activities including career and technical education programs, nor in its employment practices.