



Architecture and Construction Career Cluster

The Architecture and Construction career cluster focuses on designing, planning, managing, building, and maintaining the built environment. This career cluster includes occupations ranging from architect, carpenter, and construction manager to electrician, plumber and heating, air conditioning, and refrigeration technician.

CFISD Program of Study: Interior Design

Successful completion of the Architectural Drafting and Design program of study will fulfill requirements of the Business and Industry endorsement.

The Architectural Drafting and Design program of study focuses on occupational and educational opportunities associated with developing, engineering, and designing building structures and facilities. This program of study includes reading, interpreting, and drawing blueprints for interior and exterior construction projects.



Recommended Course Sequence (credits)(A=advanced)

Students wanting an endorsement in this area must select three (3) or more courses totaling four (4) or more credits with at least one being advanced.

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|-----------------|--------------------------------------------------------------------------|
| Grade 9 | • Principles of Architecture (1) |
| Grade 10 | • Architectural Design I (1) |
| Grade 11 | • Interior Design (1) |
| Grade 12 | • Capstone –Interior Design (1) (A) • Architectural Design II (2) (A) |

Aligned Industry-Based Certifications Offered in CFISD

(course) (CCMR=impacts "career ready" status as outlined by the TEA Accountability System for College, Career or Military Readiness)

- Autodesk Associate (Certified User) AutoCAD (Architectural Design II) (CCMR)
- Autodesk Associate (Certified User) Revit Architecture (Architectural Design II) (CCMR)

Work-Based Learning and Expanded Learning Opportunities

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|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Work-Based Learning Activities | <ul style="list-style-type: none"> • Intern at an architectural firm to develop CADD drafting and design technology skills • Shadow a civil engineer to learn more about their day-to-day responsibilities |
| Expanded Learning Opportunities | <ul style="list-style-type: none"> • Conduct an informational interview with an architect to learn about their role and responsibilities • Participate in SkillsUSA or TSA |



- Receive training on industry-standard material, software & equipment.
- Enhance your resume by earning recognized industry-based certifications.
- Get a jump-start by taking advantage of core curriculum dual credit, transferable to 2-yr and 4-yr degrees.

ALL AT A FRACTION OF THE COST!



Example Postsecondary Opportunities

Apprenticeships

- Drafter

Associate Degrees

- CAD/CADD Drafting and/or Design Technology
- Drafting and Design Technology
- Surveying Technology/Surveying
- Architectural Drafting and Architectural CAD/CADD

Bachelor's Degrees

- Civil Engineering
- Construction Engineering
- Surveying Engineering
- Drafting and Design Technology

Master's, Doctoral, and Professional Degrees

- Civil Engineering
- Geographic Information Science and Cartography
- Construction Engineering Technology



Example Aligned Occupations

Data Source: Texas Wages, Texas Workforce Commission. rev 3/8/2024

Architectural and Civil Drafters

Median Wage: \$57,424
Annual Openings: 1,366
10-Year Growth: 15%

Interior Designers

Median Wage: \$68,931
Annual Openings: 696
10-Year Growth: 17.4%

Architects

Median Wage: \$80,903
Annual Openings: 966
10-Year Growth: 18%



For more information on this and other CTE programs of study offered in CFISD, visit <https://www.cfisd.net/academics/career-technical-education/programs-of-study>

What's next? For more information on related programs available to continue your studies at Lone Star College, visit <https://www.lonestar.edu/programs-of-study>

