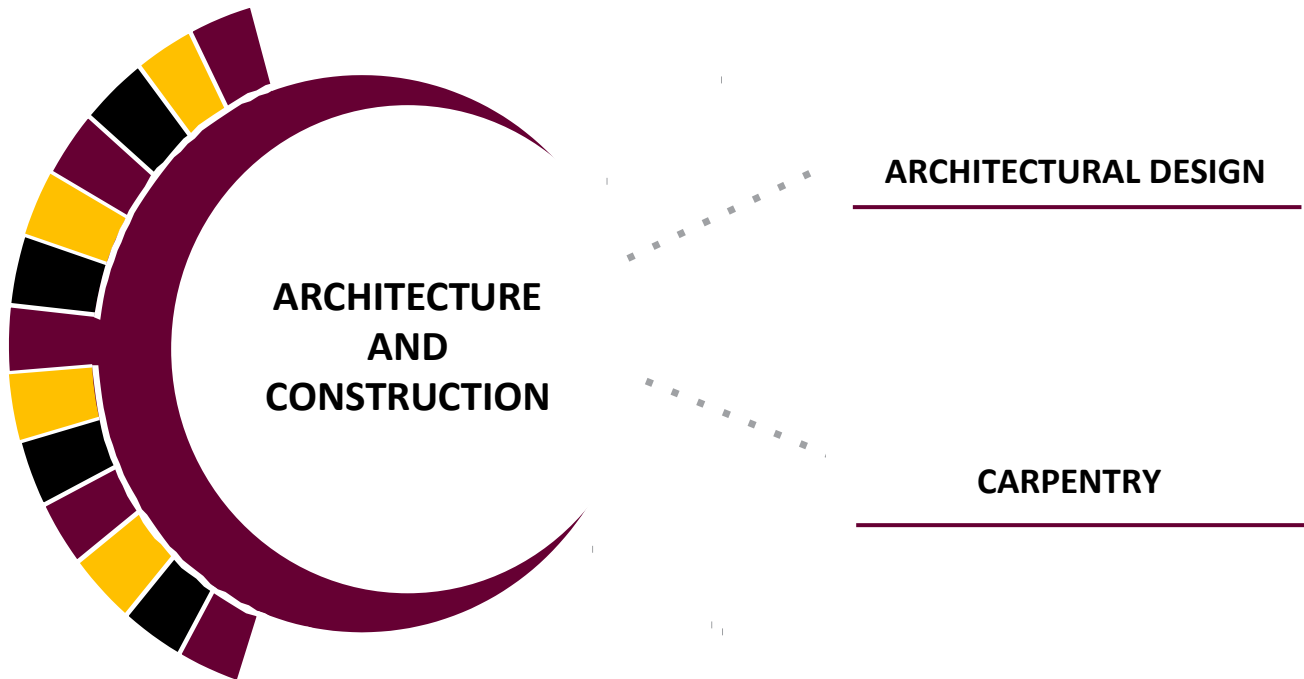


# Business & Industry Endorsement

## CAREER CLUSTER

## PROGRAMS OF STUDY



Students completing two or more courses for two or more credits within a program of study earn concentrator status for Perkins V federal accountability reporting.

Students finishing three or more courses for four or more credits with one course from level 3 or 4 within a program of study earn completer status for Perkins V federal accountability reporting.





**COURSES**

LEVEL 1

Principles of Architecture

LEVEL 2

Architectural Design I

LEVEL 3

Architectural Design II CC

LEVEL 4

Practicum in Architectural Design CC

**POSTSECONDARY OPTIONS**

HIGH SCHOOL/ *INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
*Autodesk Certified Professional or User in AutoCAD	*Architectural and Civil Engineering Technology Certificate – STC Dual Enrollment	Architecture and Civil Engineering Design Technology	Architecture		Architects	\$77,043	808	16%
Autodesk Certified Professional or User in AutoCAD Civil 3D	Certified Development Design & Construction Professional	Interior Design		Interior Architecture	Geographic	\$58,906	162	22%
Autodesk Certified Professional or User in Revit Architecture	National Council Certified Interior Designer	Civil Engineering, General			Architectural/ Civil Drafters	\$50,170	1,068	9%
*Certification offered at DISD. Additional industry based certification information is available from the TEA CTE website.					Construction Managers	\$87,402	2,401	14%
For more information on postsecondary options for this program of study, visit TXCTE.org, your counselor, or the CTE department at DISD.					<b>WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES</b>			
					<b>Exploration Activities:</b> SkillsUSA Department tour at a college or firm Shadow an Architect or Civil Engineer	<b>Work Based Learning Activities:</b> Intern at an architectural firm		

The Architectural Design program of study explores the occupations and educational opportunities associated with developing, engineering and designing building structures and facilities. This program of study may also include exploration into collecting and interpreting geographic information, researching and preparing maps, and interior design.



The Architecture and Construction Career Cluster® focuses on designing, planning, managing, building, and maintaining the built environment. Principles of Architecture provides an overview to the various fields of architectures, interior design, and construction management.

Successful completion of the Architectural Design program of study will fulfill requirements of the Business and Industry Endorsement – Approved Statewide Programs of Study – September 2019.



# COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Architecture	13004210 (1 credit)	None	9-12
Architectural Design I	13004600 (1 credit)	<b>PREQ:</b> Algebra I and English I	10-12
Architectural Design II CC	13004700 (2 credits)	<b>PREQ:</b> Architectural Design I	11-12
Practicum in Architectural Design CC	13004800 (2 credits)	<b>PREQ:</b> Architectural Design II CC	12

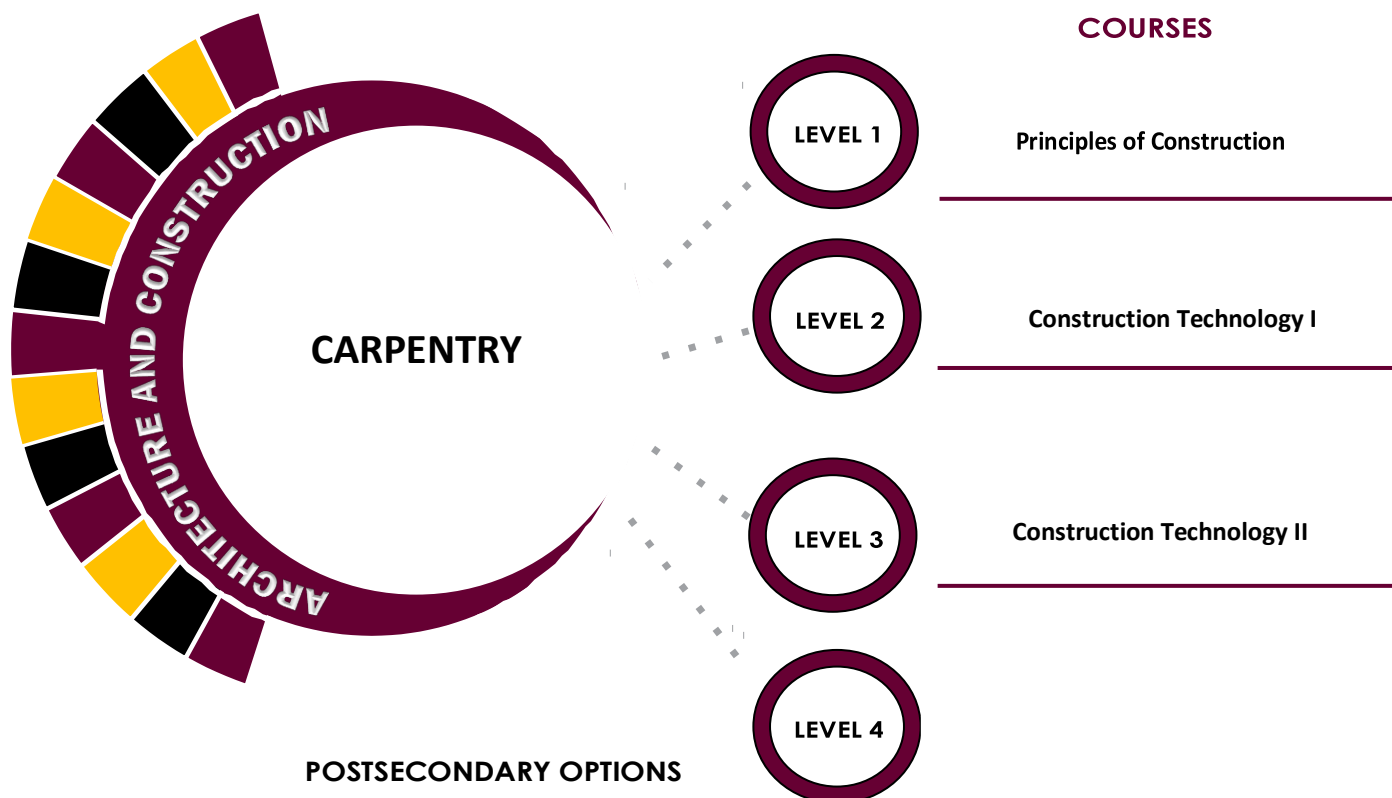
FOR ADDITIONAL INFORMATION ON THE ARCHITECTURE AND CONSTRUCTION CAREER CLUSTER, PLEASE CONTACT:

Les Hudson/Les.Hudson@tea.texas.gov

<https://tea.texas.gov/cte>

<http://www.donnaisd.net/Community/Graduation-Plans>

## COURSES



HIGH SCHOOL/ *INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE	OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
NCCER Carpentry Fundamentals, Level 1	Certified Lead Carpenter	Carpentry/ Carpenter	Construction Science	Construction Management	Carpenters	\$35,922	5,031	26%
NCCER Core Curriculum	Certified Installer	Industrial Mechanics and Maintenance Technology			Cost Estimators	\$63,939	2,239	21%
*OSHA 30 Hour Construction	Certified Door Consultant							
NCCER Construction Technology	Fluid Power Connector and Conductor							
*Certification offered at DISD. Additional industry based certification information is available from the TEA CTE website.					<b>WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES</b>			
For more information on postsecondary options for this program of study, visit TXCTE.org, your counselor, or the CTE department at DISD.								
					<b>Exploration Activities:</b> SkillsUSA Shadow a Carpenter	<b>Work Based Learning Activities:</b> Intern at a construction company Obtain a certification		

The Carpentry program of study explores the occupations and educational opportunities related to constructing, installing, or repairing structures and fixtures made of wood, such as concrete forms (including frameworks, partitions, posts, studding, rafters, and stairways). This program of study may also include exploration into installing, dismantling, or moving machinery and heavy equipment according to layout plans, blueprints, or other drawings.

The Architecture and Construction Career Cluster® focuses on designing, planning, managing, building, and maintaining the built environment. Principles of Architecture provides an overview to the various fields of architectures, interior design, and construction management.

Successful completion of the Carpentry program of study will fulfill requirements of the Business and Industry Endorsement – Approved Statewide Programs of Study – September 2019.



# COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ)	GRADE
Principles of Construction	13004220 (1 credit)	None	9-12
Construction Technology I	13005100 (2 credits)	None	10-12
Construction Technology II	13005200 (2 credits)	<b>PREQ:</b> Construction Technology I	11-12

FOR ADDITIONAL INFORMATION ON THE ARCHITECTURE AND CONSTRUCTION CAREER CLUSTER, PLEASE CONTACT:

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