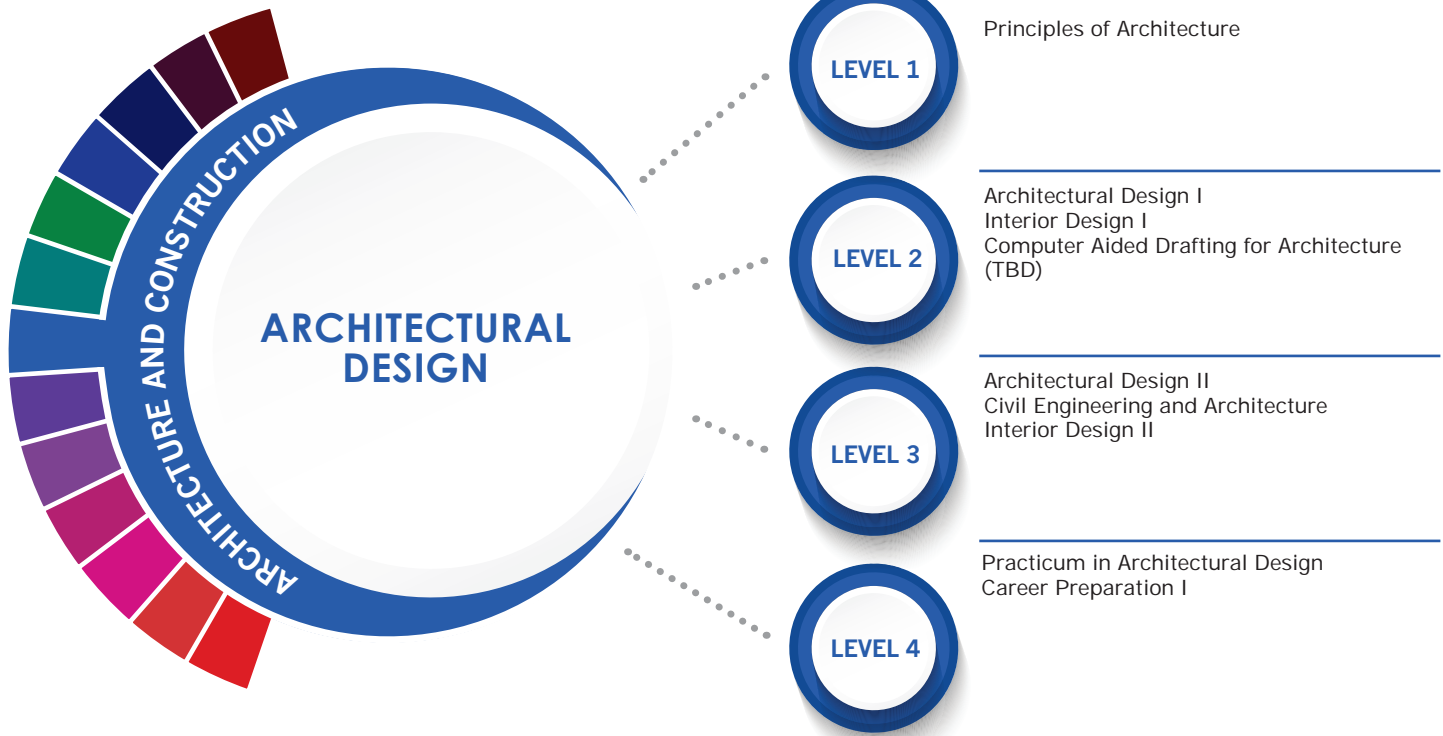


Local Implementation Considerations:

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.

Proposed Indicator: 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 federal accountability reporting.

COURSES



HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Autodesk Certified Professional or User in AutoCAD	Certified Photogrammetric Technologist	Architecture		
Autodesk Certified Professional or User in AutoCAD Civil 3D	Certified Development, Design & Construction Professional	Interior Design		Interior Architecture
Autodesk Certified Professional or User in Autodesk Revit Architecture	National Council Certified Interior Designer	Civil Engineering, General		
Autodesk Certified Professional or User in Autodesk Revit MEP Electrical	LEED AP Building Design & Construction	Geographic Information Science and Cartography		

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Architects	\$77,043	808	16%
Geographic Information Analysts and Surveyors	\$58,926	162	27%
Architectural/Civil Drafters	\$50,170	1,068	9%
Civil Engineers	\$89,960	2,394	12%
Construction Managers	\$87,402	2,401	14%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Shadow an architect, interior designer, or civil engineer

Career Preparation:
Obtain a Core Curriculum NCCER certification in Construction Technology Intern at an architecture 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 architecture, interior design, and construction management.

Successful completion of the Construction Design program of study will fulfill requirements of the Business and Industry Endorsement.

Program of Study Draft for Public Comment June 2019



COURSE INFORMATION

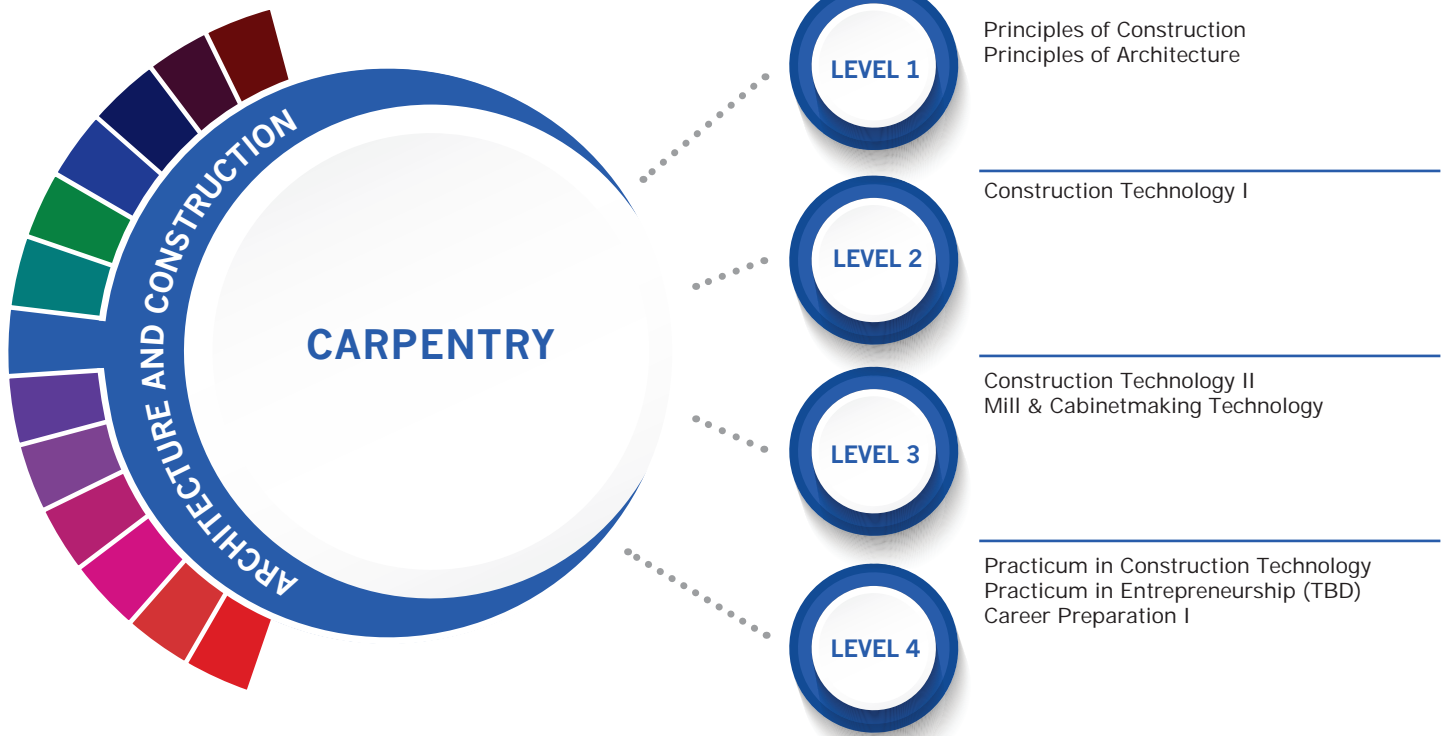
COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ) RECOMMENDED PREREQUISITES (RPREQ) RECOMMENDED COREQUISITIES (CREQ)	GRADE
Principles of Architecture	13004210	None	9-12
Architectural Design I	13004600	PREQ: Algebra I and English I RPREQ: Geometry, Principles of Architecture, or Principles of Construction	10-12
Interior Design I	13004300	PREQ: Algebra I and English RPREQ: Principles of Architecture and Principles of Construction or Architectural Design	10-12
Computer Aided Drafting for Architecture (TBD)	TBD	TBD	TBD
Architectural Design II	13004700	PREQ: Architectural Design I or Advanced Interior Design and Geometry RPREQ: Principles of Architecture and Principles of Construction	11-12
Civil Engineering and Architecture	N103747	None	9-12
Interior Design II	13004400	PREQ: English II, Geometry, and Interior Design I	11-12
Practicum in Architectural Design	13004800 (2 credits) 13004805 (3 credits)	PREQ: Architectural Design II	12
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

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

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COURSES



HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
NCCER Carpentry, Level 1 & 2	Certified Lead Carpenter	Carpentry/ Carpenter	Construction Science	Construction Management
NCCER Commercial Carpenter	Certified Installer	Industrial Mechanics and Maintenance Technology		
NCCER Core Curriculum	Certified Door Consultant			
NCCER Construction Technology	Fluid Power Connector and Conductor			

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Carpenters	\$35,922	5,031	26%
Cost Estimators	\$63,939	2,239	21%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Shadow a carpenter or
millwright

Career Preparation:
Obtain an NCCER
certification in Millwright
Level 1 or Carpentry Level
1

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, joists, 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 architecture, interior design, and construction management.

Successful completion of the Carpentry program of study will fulfill requirements of the Business and Industry Endorsement.

Program of Study Draft for Public Comment June 2019



COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ) RECOMMENDED PREREQUISITES (RPREQ) RECOMMENDED COREQUISITES (CREQ)	GRADE
Principles of Construction	130042200	None	9-12
Principles of Architecture	13004210	None	9-12
Construction Technology I	13005100	RPREQ: Principles of Construction or Principles of Architecture	10-12
Construction Technology II	13005200	PREQ: Construction Technology I	11-12
Mill & Cabinetmaking Technology	13005300	RPREQ: Principles of Architecture and Principles of Construction	10-12
Practicum in Construction Technology	13005250 (2 credits) 13006450 (3 credits)	PREQ: Construction Technology II, Building Maintenance Technology II, Electrical Technology II, Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II, Plumbing Technology I, or Mill and Cabinetmaking Technology	12
Practicum in Entrepreneurship	TBD	TBD	TBD
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

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

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COURSES



LEVEL 1

Principles of Construction

LEVEL 2

Building Maintenance Technology I
Construction Management I

LEVEL 3

Building Maintenance Technology II
Construction Management II

LEVEL 4

Practicum in Construction Management
Career Preparation I

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
NCCER Construction Technology	Code Enforcement Officer, Texas Department of Health Code Enforcement	Construction Engineering Technology/Technician		Materials Engineering
NCCER Core Curriculum	Certified Cost Estimator/ Analyst	Business Administration and Management, General		
OSHA 30 Hour Construction	Certified Professional Estimator	Mechanical Engineering		
NCCER Construction Site Safety Technician	Structural Masonry Special Inspector	Business/Commerce, General		Manufacturing Engineering
Additional industry based certification information is available from the TEA CTE website.				
For more information on postsecondary options for this program of study, visit TXCTE.org.				

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Construction and Building Inspectors	\$53,914	983	17%
Cost Estimators	\$53,939	2,239	21%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Shadow a building
inspector or cost
estimator

Career Preparation:
Obtain an NCCER
Construction Technology,
Core Curriculum, Electrical
Level 1, or Electronic
Systems Technician Level 1
Certification

The Building Codes and Inspection program of study explores the occupations and educational opportunities associated with cost estimates for construction projects or services to aid management in bidding on or determining the price of products or services. This program of study may also include exploration into inspecting structures using engineering skills to determine structural soundness and compliance with specifications, building codes, and other regulations.



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 architecture, interior design, and construction management.

Successful completion of the Building Codes and Inspection program of study will fulfill requirements of the Business and Industry Endorsement.

Program of Study Draft for Public Comment June 2019

COURSE INFORMATION

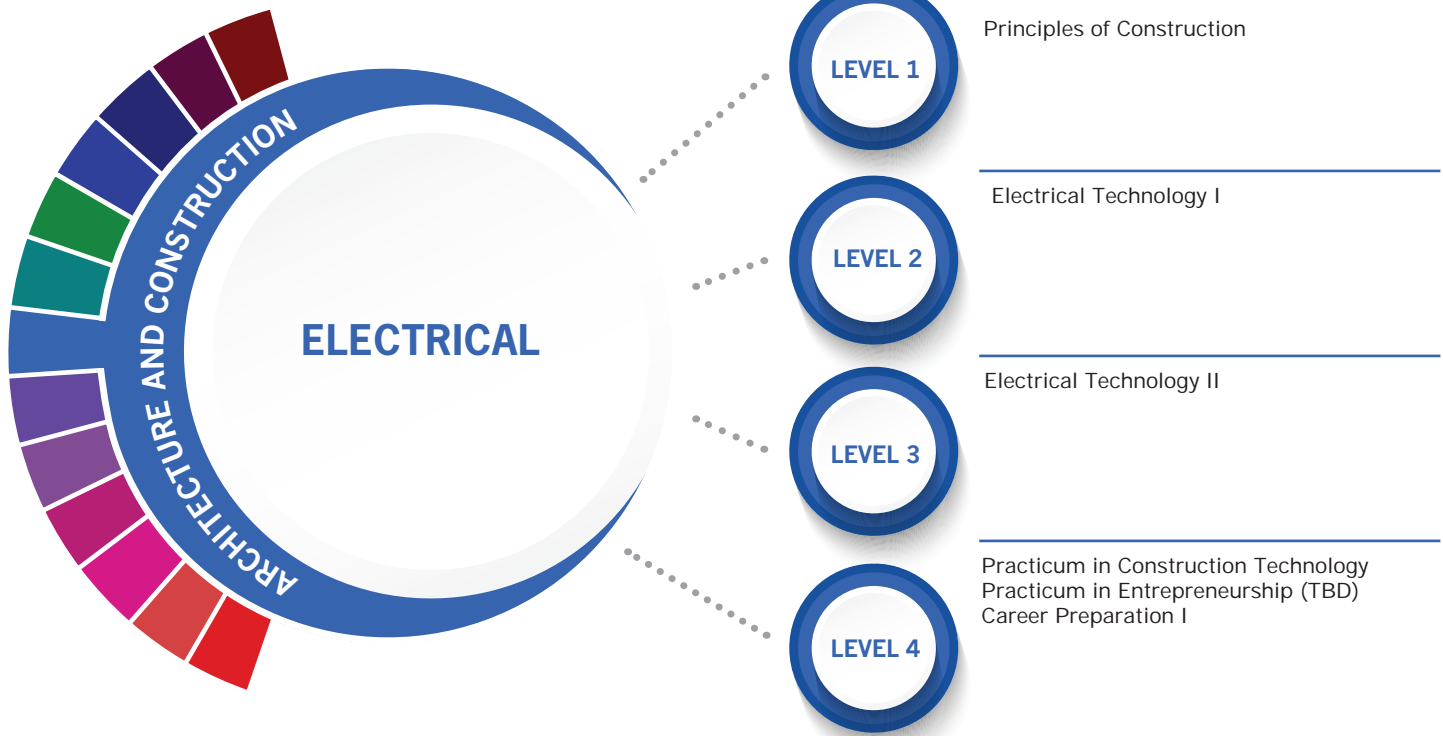
COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ) RECOMMENDED PREREQUISITES (RPREQ) RECOMMENDED COREQUISITES (CREQ)	GRADE
Principles of Construction	13004220	None	9-12
Building Maintenance Technology I	13005400	RPREQ: Principles of Architecture or Principles of Construction	10-12
Construction Management I	13004900	RPREQ: Algebra I, Geometry, and Principles of Construction	10-12
Building Maintenance Technology II	13005500	PREQ: Building Maintenance Technology I	11-12
Construction Management II	13005000	PREQ: Construction Management I	11-12
Practicum in Construction Management	13006200 (2 credits) 13006205 (3 credits)	PREQ: Construction Management II	12
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

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

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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 Electrical, Level 1 & 2	Electrical Plans Examiner	Electrician	Construction Science	Construction Management	Electrical Linemen	\$64,937	309	9%
NCCER Electronic Systems Technician, Level 1 & 2	Certified Electrical Inspector - Master	Communications Systems Installation and Repair Technology			Electricians	\$44,013	8,460	21%
Electrical Apprenticeship Certificate, Level 1	Fiber Optics Technician - Outside Plant				Electrical and Electronics Installers	\$58,178	195	14%
NCCER Commercial Electrician	Certification in Fire Alarm Systems - Level 1				Security and Fire Alarm Installers	\$43,638	1,112	22%
					Telecommunication Line Installers and Repairers	\$49,150	1,228	10%
Additional industry based certification information is available from the TEA CTE website.					WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES			
For more information on postsecondary options for this program of study, visit TXCTE.org.					Exploration Activities: Shadow an electrician or fiber optics line installer	Career Preparation: Obtain an NCCER certification in Electrical Level 1 or Electronic Systems Technician Level 1		

The Electrical program of study explores the occupations and educational opportunities associated with installing, maintaining, and repairing electrical wiring, equipment, and fixtures. This program of study may also include exploration into installing and repairing telecommunications cable including fiber optics.



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 architecture, interior design, and construction management.

Successful completion of the Electrical Program of Study will fulfill requirements of a Business and Industry Endorsement.

Program of Study Draft for Public Comment June 2019



COURSE INFORMATION

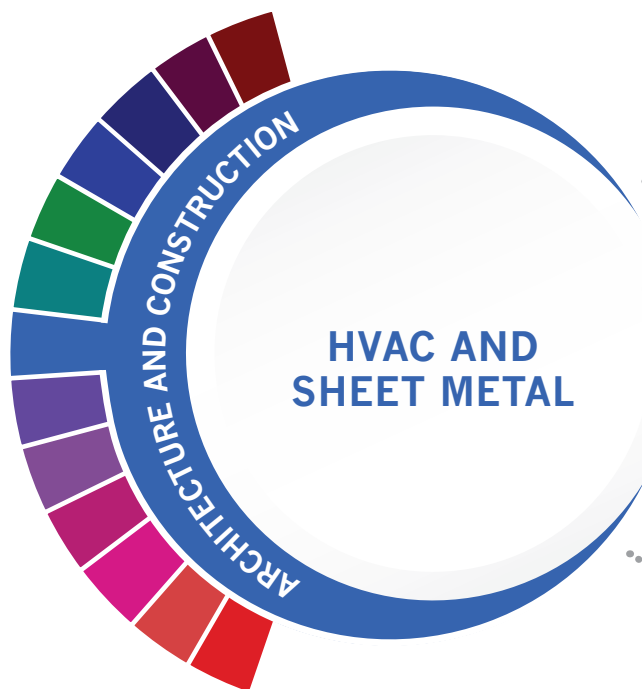
COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ) RECOMMENDED PREREQUISITES (RPREQ) RECOMMENDED COREQUISITIES (CREQ)	GRADE
Principles of Construction	13004220	None	9-12
Electrical Technology I	13005600	RPREQ: Principles of Architecture or Principles of Construction	10-12
Electrical Technology II	13005700	PREQ: Electrical Technology I RPREQ: Principles of Architecture or Principles of Construction	11-12
Practicum in Construction Technology	13005250 (2 credits) 13006450 (3 credits)	PREQ: Construction Technology II; Building Maintenance Technology II; Electrical Technology II; Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II; Plumbing Technology I; or Mill and Cabinetmaking Technology	12
Practicum in Entrepreneurship	TBD	TBD	TBD
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

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COURSES



LEVEL 1

Principles of Construction

LEVEL 2

Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology I

LEVEL 3

Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II
Sheet Metal (TBD)

LEVEL 4

Practicum in Construction Technology
Practicum in Entrepreneurship (TBD)
Career Preparation I

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
Refrigerant Handling (EPA 608)	Residential HVAC Design for Quality Installation	Business Administration and Management, General		
OSHA 30 Hour Construction	Certified Cost Technician	Mechanical Engineering		
NCCER HVAC, Level 1	Precision Sheet Metal Operator Certification	Heating, Ventilation, Air Conditioning and Refrigeration Engineering Technology/ Technician	Construction Engineering Technology/ Technician	Construction Engineering
NCCER Sheet Metal, Level 1	Certified Ventilation System Inspector	Business/Commerce, General		
Additional industry based certification information is available from the TEA CTE website.				
For more information on postsecondary options for this program of study, visit TXCTE.org.				

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Heating, Air Conditioning, and Refrigeration Mechanics	\$41,808	3,356	26%
Sheet Metal Workers	\$37,419	1,479	17%
Cost Estimators	\$63,939	2,239	21%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Shadow an HVAC worker or cost estimator

Career Preparation:
Obtain an NCCER certification in HVAC, Electrical Level 1, Electronic Systems Technician Level 1, or Sheet Metal Level 1

The HVAC and Sheet Metal program of study explores the occupations and educational opportunities associated with installing, serving, or repairing heating and air conditioning systems and also the fabrication, assembly, installation, and repair of sheet metal products and equipment, such as ducts, control boxes, drainpipes, and furnace casings. This program of study may also include exploration into preparing cost estimates for certain construction projects involving heating and air conditioning and sheet metal.



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 architecture, interior design, and construction management.

Successful completion of the HVAC and Sheet Metal program of study will fulfill requirements of the Business and Industry Endorsement.

Program of Study Draft for Public Comment June 2019

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ) RECOMMENDED PREREQUISITES (RPREQ) RECOMMENDED COREQUISITES (CREQ)	GRADE
Principles of Construction	13004220	None	9-12
Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology I	13005800	RPREQ: Principles of Architecture, Principles of Construction, or Construction Technology I	10-12
Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II	13005900	PREQ: Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology I RPREQ: Principles of Architecture or Principles of Construction	11-12
Sheetmeal	TBD	TBD	TBD
Practicum in Construction Technology	13005250 (2 credits) 13006450 (3 credits)	PREQ: Construction Technology II; Building Maintenance Technology II; Electrical Technology II; Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II; Plumbing Technology I; or Mill and Cabinetmaking Technology	12
Practicum in Entrepreneurship (TBD)	TBD	TBD	11-12
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

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

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COURSES



LEVEL 1

Principles of Construction

LEVEL 2

Masonry Technology I

LEVEL 3

Masonry Technology II

LEVEL 4

Practicum in Masonry Technology
Practicum in Construction Technology
Practicum in Entrepreneurship (TBD)
Career Preparation I

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
NCCER Masonry, Level 1 & 2	Structural Masonry Special Inspector	Mason/ Masonry	Construction Science	Construction Management
NCCER Core Curriculum	Structural Steel and Bolting Special Inspector			
NCCER Construction Technology, Level 1	Masonry Contractor			
NCCER Weatherization, Level 1	Masonry Field Testing Technician			

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Brickmasons and Blockmasons	\$44,013	605	47%
Cement Masons and Concrete Finishers	\$32,739	2,883	12%
Cost Estimators	\$63,939	2,239	21%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Job shadow a
brickmason, stonemason,
or ironworker

Career Preparation:
Obtain an NCCER
Certification in Masonry
Level 1, and/or Core
Curriculum, Construction
or Technology Level 1

The Masonry program of study explores the occupations and educational opportunities related to laying and binding materials, such as brick, structural tile, concrete block, and other types of mortar and substances to construct or repair walls and other structures. This program of study may also include exploration into raising and uniting iron or steel to form completed structures or structural frameworks, and building structures using stone.



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 architecture, interior design, and construction management.

Successful completion of the Masonry program of study will fulfill requirements of the Business and Industry Endorsement.
Program of Study Draft for Public Comment June 2019

COURSE INFORMATION

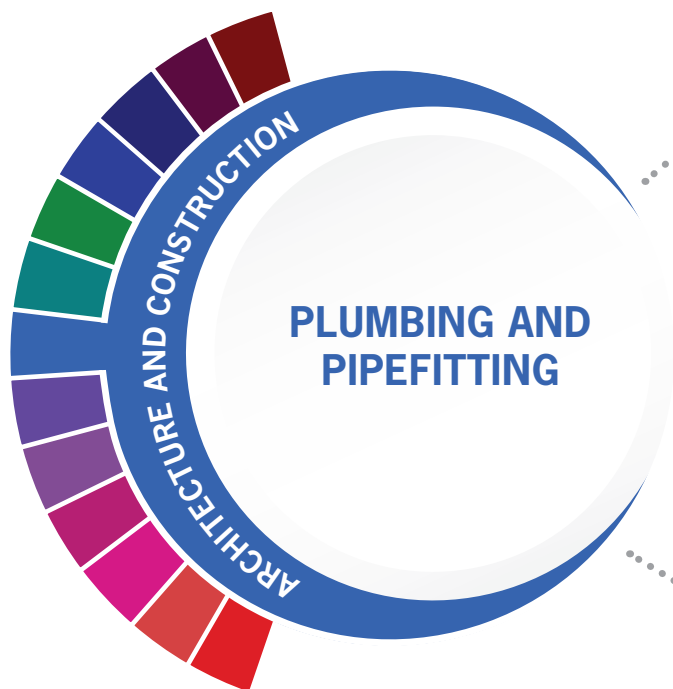
COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ) RECOMMENDED PREREQUISITES (RPREQ) RECOMMENDED COREQUISITES (CREQ)	GRADE
Principles of Construction	13004220	None	9-12
Masonry Technology I	13006300	RPREQ: Principles of Construction	10-12
Masonry Technology II	13006400	PREQ: Masonry Technology I	11-12
Practicum in Masonry Technology	13006450 (2 credits) 13006455 (3 credits)	PREQ: Masonry Technology II	12
Practicum in Construction Technology	13005250 (2 credits) 13006450 (3 credits)	PREREQ: Masonry Technology II	11-12
Practicum in Entrepreneurship	TBD	TBD	11-12
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

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

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COURSES



LEVEL 1

Principles of Construction
Introduction to Welding

LEVEL 2

Plumbing Technology I
Pipefitting Technology I

LEVEL 3

Plumbing Technology II
Pipefitting Technology II

LEVEL 4

Practicum in Construction Technology
Practicum in Entrepreneurship (TBD)
Career Preparation I

HIGH SCHOOL/ INDUSTRY CERTIFICATION	CERTIFICATE/ LICENSE*	ASSOCIATE'S DEGREE	BACHELOR'S DEGREE	MASTER'S/ DOCTORAL PROFESSIONAL DEGREE
NCCER Pipefitting, Level 1	Commercial Plumbing Inspector	Plumbing Technology/ Plumber	Construction Science	Construction Management
NCCER Plumbing, Level 1 & 2	Journey Level Pipefitter- Steamfitter	Electrical and Power Transmission Installation/ Installer, General	Operations Management and Supervision	
NCCER Construction Technology	Plumbing Plans Inspector	Pipefitting/ Pipefitter and Sprinkler Fitter		
Tradesman Plumber - Limited License	Certified Service Manager	High Performance and Custom Engine Technician/ Mechanic		

Additional industry based certification information is available from the TEA CTE website.

For more information on postsecondary options for this program of study, visit TXCTE.org.

OCCUPATIONS	MEDIAN WAGE	ANNUAL OPENINGS	% GROWTH
Mechanics, Installers, and Repairers	\$63,710	4,243	17%
Plumbers	\$44,928	5,765	23%
Pipefitters	\$44,928	5,765	23%
Steamfitters	\$44,928	5,765	23%

WORK BASED LEARNING AND EXPANDED LEARNING OPPORTUNITIES

Exploration Activities:
Job shadow a plumber,
pipefitter, or steamfitter

Career Preparation:
Obtain a Core Curriculum
NCCER certification in
Pipefitting Level 1 or
Plumbing Level 1

The Plumbing and Pipefitting program of study explores the occupations and educational opportunities related to assembling, installing, or repairing pipes, fittings, or fixtures of heating, water, or drainage systems. This program of study may also include exploration into maintaining pipe supports or related hydraulic or pneumatic equipment for steam, hot water, heating, cooling, lubricating, sprinkling, or industrial production or processing systems.



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 architecture, interior design, and construction management.

Successful completion of the Plumbing and Pipefitting Program of Study will fulfill requirements of a Business and Industry Endorsement.

Program of Study Draft for Public Comment June 2019

COURSE INFORMATION

COURSE NAME	SERVICE ID	PREREQUISITES (PREQ) COREQUISITES (CREQ) RECOMMENDED PREREQUISITES (RPREQ) RECOMMENDED COREQUISITES (CREQ)	GRADE
Principles of Construction	13004220	None	9-12
Introduction to Welding	13032250	RPREQ or CPREQ: Algebra I	9-12
Plumbing Technology I	13006000	RPREQ: Principles of Architecture Principles of Construction, or Construction Technology I	10-12
Pipefitting Technology I	N1300425	PREQ: Algebra I and Geometry RPREQ: National Center for Construction Education and Research (NCCER) Core, Introduction to Manufacturing, Principles of Construction, or Construction Technology I	11-12
Plumbing Technology II	13005900	PREREQ: HVAC and Refrigeration Technology I	11-12
Pipefitting Technology II	N13005900	RPREQ: Pipefitting Technology I	11-12
Practicum in Construction Technology	13005250 (2 credits) 13006450 (3 credits)	PREQ: Construction Technology II; Building Maintenance Technology II; Electrical Technology II; Heating, Ventilation, and Air Conditioning (HVAC) and Refrigeration Technology II; Plumbing Technology I; or Mill and Cabinetmaking Technology	12
Practicum in Entrepreneurship	TBD	TBD	TBD
Career Preparation I	12701300 (2 credits) 12701305 (3 credits)	None	11-12

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