# Utah Career and Technical Education Career Pathway Chart

2023-2024 School Year



### **Career Cluster: Architecture & Construction**

### Career Pathway: Architectural Design (CAD)

JUNIOR HIGH / MIDDLE SCHOOL	
College and Career Awareness	
Exploring Technology	
HIGH SCHOOL	
SUPPORTING COURSES: Suggested high school	ol courses that support the Career Pathway (Courses DO NOT count towards the Pathway)
Secondary Math 2	
<b>EXPLORER COURSES</b> : Choose one or more of t	he following courses.
CAD Architectural Design 1 * +	Construction Trades Foundation *
Carpentry 1 *	Electrician 1 *
Construction Technology	Plumbing 1
CONCENTRATOR COURSES: To be a concentration	ator you must pass the following course AND one explorer course.
CAD Architectural Design 2 *	
COMPLETER COURSES: To be a completer you	must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.
CAD Architectural Design 3 *	
CTE Internship	<u>Apprenticeship</u>
POSTSECONDARY: There are many options for	education and training beyond high school.
Utah System of Higher Education: ushe.edu (Utah	n's public colleges and universities)  UtahMajors.org: Majors Guide

<sup>\*</sup> concurrent enrollment course + recommended explorer course

### HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING

There are several options for education and training beyond high school, depending on your career goals.



1-2 Year	2-Year	4-Year
Certificate	Associate Degree	Bachelor's Degree
> Civil Drafter	> Architectural Drafter > Civil Drafter	<ul><li>&gt; Architect</li><li>&gt; Architectural and Engineering Manager</li><li>&gt; Civil Engineer</li></ul>

Career and Technical Education provides all students access to high-quality, rigorous career-focused programs that result in attainment of credentials with labor market value. Credentials of Value

Utah CTE classes are open to all qualified students without regard to race, color, national origin, sex, disability, or age.

#### **Student Testimonial**

"As a freshman in high school, I was unsure what career path I should focus on. Because of this, I ended up taking a wide variety of courses and finding a passion in designing house plans using the computer. I have chosen to focus on structural and architectural design technology."

Jaxon Schiess Future Architect

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

#### **Architecture & Construction**

UtahCTE.org: Fact Sheet

Department of Workforce Services
Utah Occupational Explorer

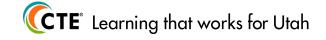
### **TSA**

is the Career and Technical Student Organization (CTSO) for students in the Architectural Design (CAD) Career Pathway.

TSAweb.org | UtahTSA.org

**Utah TSA flyer** 





# Utah Career and Technical Education Career Pathway Chart

2023-2024 School Year



### **Career Cluster: Architecture & Construction**

### Career Pathway: Construction & Structural Systems

JUNIOR HIGH / MIDDLE SCHOO	L				
College and Career Awareness		·			·
Exploring Technology					
HIGH SCHOOL					
SUPPORTING COURSES: Sugge	ested high so	chool courses that supp	ort the Career Pathway	(Courses DO	NOT count towards the Pathway)
English 1010		Entrepreneurship *		Math 1050	0
EXPLORER COURSES: Choose one or more of the following courses.					
CAD Architectural Design 1 * +		Construction Trades Foundations * +			
Construction Management 1 +		Woods 1 +			
Construction Technology +					
CONCENTRATOR COURSES: To	o be a conce	entrator you must pass o	one of the following cou	rses AND on	e explorer course.
Carpentry 1 *	Constructi	on Management 2	Electrician 1 *		Plumbing 1
COMPLETER COURSES: To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.					
Carpentry 2 *	Constructi	on Management 3	Electrician 2		Plumbing 2
CTE Internship		<u>Apprenticeship</u>			
POSTSECONDARY: There are m	any options	for education and traini	ng beyond high school.		
Utah System of Higher Education: <u>ushe.edu</u> (Utah's public colleges and universities)  UtahMajors.org: <u>Majors Guide</u>			.org: <u>Majors Guide</u>		

<sup>\*</sup> concurrent enrollment course + recommended explorer course

### HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING

There are several options for education and training beyond high school, depending on your career goals.



1-2 Year	2-Year	4-Year
Certificate	Associate Degree	Bachelor's Degree
<ul> <li>&gt; Electrical and Electronics Engineering Technician</li> <li>&gt; Pipefitter (Journey Level)</li> <li>&gt; Plumber (Journey Level)</li> </ul>	> Carpenter > Electrical Drafter > General Contractor	<ul> <li>CTE Teacher</li> <li>Civil Engineer</li> <li>Construction Manager</li> <li>Electrical Engineer</li> <li>Environmental Engineer</li> </ul>

Career and Technical Education provides all students access to high-quality, rigorous career-focused programs that result in attainment of credentials with labor market value. <a href="Credentials of Value">Credentials of Value</a>

Utah CTE classes are open to all qualified students without regard to race, color, national origin, sex, disability, or age.

#### **Student Testimonial**

The CTE classes I have taken have led me to see that I am interested in a career in construction. With the CTE classes I have learned many skills needed to go farther in my career. I have learned that I like framing, shingling . . . Once I finish my schooling, I will be able to get a job that I will enjoy and that I can improve throughout my life."

Tyler Stettler Future Construction Manager

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

#### **Architecture & Construction**

UtahCTE.org: Fact Sheet

Department of Workforce Services
<u>Utah Occupational Explorer</u>

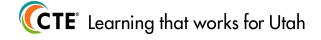
**UAEC Pathways** 

### **SkillsUSA**

is the Career and Technical Student Organization (CTSO) for students in the Construction & Structural Systems Career Pathway.

SkillsUSA.org | UtahSkillsUSA.org | SkillsUSA flyer





# **Utah Career and Technical Education Career Pathway Chart**

2023-2024 School Year



### **Career Cluster: Architecture & Construction**

### **Career Pathway: Interior Design**

JUNIOR HIGH / MIDDLE SCHOOL	
College and Career Awareness	
FCS 6th Grade	
FCS Exploration	
HIGH SCHOOL	
SUPPORTING COURSES: Suggested high school courses that supp	ort the Career Pathway (Courses DO NOT count towards the Pathway)
Entrepreneurship *	
<b>EXPLORER COURSES</b> : Choose one or more of the following courses	3.
Business Communication 1 *	Interior Design 1 * +
CAD Architectural Design 1 *	Marketing 1 *
Digital Media 1 *	
CONCENTRATOR COURSES: To be a concentrator you must pass	he following course AND one explorer course.
Interior Design 2 *	
COMPLETER COURSES: To be a completer you must pass a conce	ntrator course and enough courses to equal 3.0 credits in this Pathway.
Interior Design 3	
Sewing Construction and Textiles 3	
CTE Internship	Apprenticeship
POSTSECONDARY: There are many options for education and training	ng beyond high school.
Utah System of Higher Education: ushe.edu (Utah's public colleges a	nd universities) UtahMajors.org: Majors Guide

<sup>\*</sup> concurrent enrollment course + recommended explorer course

# There are several options for education and training beyond high school, depending on your career goals.



1-2 Year	2-Year	4-Year
Certificate	Associate Degree	Bachelor's Degree
N/A	> Photo Stylist	> Architect > CTE Teacher > Interior Designer > Sales Manager

Career and Technical Education provides all students access to high-quality, rigorous career-focused programs that result in attainment of credentials with labor market value. Credentials of Value

 $\label{thm:ct} \textbf{Utah CTE classes are open to all qualified students without regard to race, color, national origin, sex, disability, or age. } \\$ 

### **Student Testimonial**

"A CTE internship offered me the chance to work outside of the class-room for on-the-job training and opportunities to help me better understand what I want to do after graduation."

Jacob Gurney Future Interior Designer

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

### **Architecture & Construction**

UtahCTE.org: Fact Sheet

Department of Workforce Services
Utah Occupational Explorer

### **FCCLA**

is the Career and Technical Student Organization (CTSO) for students in the Interior Design Career Pathway.

FCCLAinc.org | UtahFCCLA.org
Utah FCCLA flyer

