



**ENGINEERING
& DESIGN**
INDUSTRY SECTOR

***Combine creativity and
problem-solving skills***

Architecture is a challenging field of study that integrates and includes a wide variety of skills that are highly sought after in a number of different phases of the construction industry as well as civil and mechanical engineering industries.

Architectural Design

at Highlands High School



**CAREER
TECHNICAL
EDUCATION**
TWIN RIVERS UNIFIED
SCHOOL DISTRICT

www.trusd.net/cte

Twin Rivers Unified School District programs, activities, and practices shall be free from unlawful discrimination, harassment, intimidation, and bullying based on actual or perceived race, color, ancestry, national origin, ethnic group identification, age, religion, marital or parental status, physical or mental disability, sex, sexual orientation, gender, gender identity, or gender expression; or on the basis of a person's association with a person or group with one or more of these actual or perceived characteristics.

Architectural Design Pathway

In this Architectural Design pathway, students will study computer design, materials, the process of construction in all phases along with the design process used for products and homes. This pathway creates a foundation for a wide range of careers around design and construction.



While you're in High School

UNIQUE FEATURES

- Take classes on campus at American River College in Junior and Senior year of high school
- Learn to create structures virtually using computer aided design (CAD) and 3D modeling
- Work with the latest versions of AutoCAD, Inventor, Revit, and Sketchup on powerful workstation computers
- Assemble and print models using 3D printers

GRADUATION OPPORTUNITIES

- Seniors who meet the requirements can earn a Career Pathways Cord at graduation
- Earn CAD and BIM operator certification through American River College
- Classes are dual enrolled and students who pass with a C or better can earn college and high school credit

How to participate!

- :: Find out more program info from a CTE teacher on campus
- :: Make an appointment with your counselor to plan your classes



Pathways in college and beyond

Community college programs provide a great opportunity to continue your training and prepare for your first job. You will receive the same quality training as private programs, but for only a fraction of the price.

COLLEGE MAJORS

- ⋮ Architectural Technology
- ⋮ Architectural Design
- ⋮ Mechanical Engineering
- ⋮ Electrical Engineering
- ⋮ Computer Science
- ⋮ Civil Engineering

POTENTIAL CAREERS

- ⋮ Architect
- ⋮ Engineer
- ⋮ Computer Programmer
- ⋮ CAD Design Technician
- ⋮ Industrial Design

