



**INFORMATION &
COMMUNICATION
TECHNOLOGIES**
INDUSTRY SECTOR

So many different career options are available now

Use your problem solving and engineering skills to innovate, create, and explore. Graduates have a wide variety of potential jobs with opportunities to maintain computers and networks that operate in industries such as healthcare, education, finance, entertainment and more!

IT jobs are in high demand

Demand for support specialists in information technology are expected to increase faster than all other occupations as organizations continue to integrate increasingly sophisticated technologies.



**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.

**Computer
Science**

*at Twin Rivers
Middle Schools*

Information & Communication Technologies Pathway

Computer Science is more than just access to technology—it is about innovation and creativity. No matter what field you go into, computer science enables you to take charge of your future and unlock your potential to communicate and leverage technology for the causes that matter to you.



While you're in Middle School

PROGRAM FEATURES

- Start coding easily using beginner-friendly block-based programming languages
- Create simple apps, animations, games, and “code art”
- Confidently advance into coding with robots and microcontrollers
- Create your own websites using HTML and JavaScript

PAST FIELDTRIPS

- Engage in hands-on labs and design challenges at The Tech Interactive in San Jose
- Experience real-world learning and engineering challenges at MOSAC in Sacramento
- Visit Silicon Valley’s Computer History Museum to understand technology’s societal impact

How to participate!

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

OPPORTUNITIES IN HIGH SCHOOL

Students can continue in the Computer Science pathway at Grant High School.

- Learn to evaluate data, work with people and communicate clearly
- Learn critical thinking, teamwork, problem solving, and a variety of math concepts



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

- ⋈ Information Technology
- ⋈ Computer Science
- ⋈ Information Systems
- ⋈ Business Analytics
- ⋈ Project Management

POTENTIAL CAREERS

- ⋈ Database Administrator
- ⋈ Video Game Designer
- ⋈ IT Security Specialist
- ⋈ IT Help Desk Technician
- ⋈ Mobile Application Developer
- ⋈ Software Engineer

