CTE™

Career Technical Education
Santa Ana Unified School District

INTERMEDIATE

EXPLORE
PATHWAYS TO CAREERS

CTE Intermediate students are able to take courses in pathways that CONNECT with high school and college, leading to future CAREERS.

Foundations of Film
CAR, HEN, LAT

Students explore how movies are created through storytelling and cinematography. They will make their own movies and podcasts.

Design & Modeling
ALA, CAR, LAT, LRCA, MEN, MIT, SAN, VIL

Students learn the process of designing new products and use creativity and innovation to solve real-world problems. Then they sketch, design, and build a 3D model of a prosthetic to help someone with a physical disability.

Energy & Environment
CAR, MEN, MIT

Students explore sustainable solutions to our energy needs and investigate the impact of energy on our lives and the world. They design and model alternative energy sources and evaluate options for reducing energy consumption.

Flight & Space
CAR, LAT, MEN, MIT

Students discover the science behind aeronautics and explore traveling and living in space. They are challenged to design, build and test a simple airfoil.

Gateway to Engineering
MEN

Using hands-on activities, students study about various careers in engineering and solve problems using engineering tools. They use the Engineering Design Process and work in teams to create solutions to problems that they will present in class.

Green Architecture
MEN

Students study about the importance of "being green" in the construction field. Students are challenged to create an emergency home from shipping containers and learn how to use 3D tools to draw like an architect.

Magic of Electrons
LAT

Through hands-on projects, students study the basics of electricity and the impact of electricity on the world. Students are challenged to be creative and innovative, working in teams to design and develop solutions to engaging problems, such as building a Morse Code machine.

Forensics
LAT, MAC, MEN, MIT, SAN

Through hands-on activities, students learn to recognize forensic evidence such as fingerprints, blood, DNA, handwriting evidence. Students will collect, document, and analyze evidence. Students use deductive reasoning and apply the skills they have learned to solve simulations and case scenarios. Students review legal aspects from arrest to trial and how to use evidence in solving crimes.

Medical Detectives
LAT, MAC, MEN, MIT, SAN

Students play the role of real-life medical detectives as they analyze genetic testing results to diagnose diseases and study DNA evidence found at a crime scene. They solve medical mysteries through hands-on projects and labs, investigate how to measure and interpret vital signs, and learn how the systems of the human body work together to be healthy.

Automation & Robotics
ALA, CAR, LAT, LRCA, MAC, MEN, MIT, SAN, SIE, VIL

Students design, build and program robots. They learn about the history of automation and robotics while learning about mechanical and computer systems using VEX parts.

Computer Science for App Creators
ALA, MEN, MIT, SIE, VIL

Students program fun and interactive computer games. They design, program, and create a mobile app that will solve a personal or community problem that can be used on tablets and cell phones.

Computer Science for Innovators
ALA, LRCA, MEN, MIT, SIE, VIL

Students create interactive objects using sensors and technology. They program signals that will automatically control lights, doors, and locks. They code and learn to use microcontrollers to perform a variety of everyday tasks.

Esports Essentials
LAT, MEN

Students explore and apply the essential elements of game design, plot flow and puzzle design. Students use technical vocabulary and design storyboards as they create games. Students practice digital citizenship and develop healthy habits for online activities.

Beginning Woodworking
SIE

Students complete hands-on projects as they develop woodshop skills and construction techniques. Students learn safety guidelines and how to use tools standard in the woodshop.

Intermediate Woodworking
SIE

Students complete hands-on projects as they develop woodshop skills and construction techniques. Students learn safety guidelines and how to use tools standard in the woodshop.
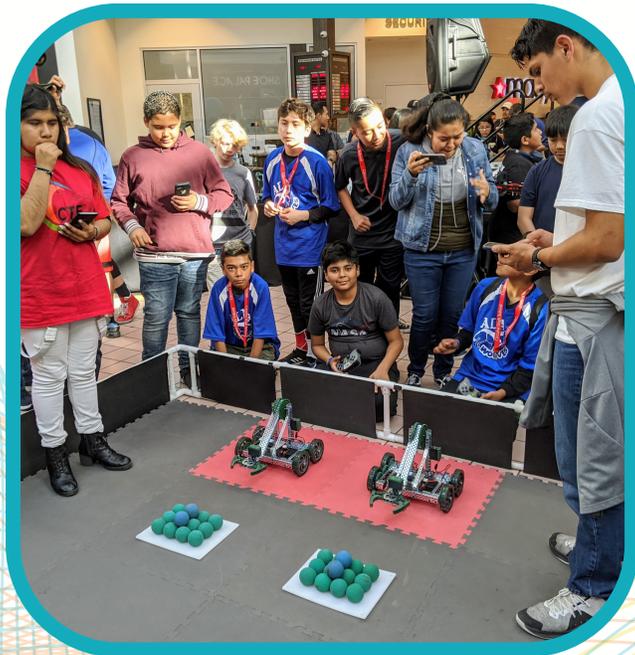
INTERMEDIATE SCHOOL
FOUNDATION ACADEMIES

Global Business& Design Academy
CARR INTERMEDIATE SCHOOL

Students learn the foundations of coding for business. Students develop marketing materials for international customers, learn the importance of understanding difference cultures. Students work on graphic art projects in the Carr Makerspace and learn the business of marketing and entrepreneurship.

T.E.A.C.H Academy
RAYMOND A. VILLA FUNDAMENTAL INTERMEDIATE SCHOOL

Students practice basic lesson planning skills. They design educational or therapeutic toys for elementary students. They develop and deliver STEM lesson plans.

Ballet Folklorico
MARTIN R. HENINGER ELEMENTARY SCHOOL

Students study the historical background of a variety of regional Mexican dance styles, refine their footwork and stage presence, apply choreographic skills, learn production elements, and business/managerial skills, and develop a professional career plan.

Mariachi
LYDIA ROMERO-CRUZ ACADEMY

This ensemble course will trace the cultural heritage and transnational influences on mariachi style, repertoire and technique. Students will perform on various mariachi instruments to appreciate the cultural heritage and history of mariachi music.

Broadcasting
LATHROP INTERMEDIATE SCHOOL

In this course, students become crew members of a production team to create a broadcast news show. Students will explore audio transitions, microphone placement, sound effects, mixing, interview techniques, camera angles, and audio processing.

SCHOOL LEGEND

ALA=Advanced Learning Academy, CAR=Carr Intermediate School, ESQ=Esqueda Middle School, HEN=Martin R. Heninger Elementary School , LAT=Lathrop Intermediate School, LRCA=Lydia, Romero Cruz Cruz, MAC=MacArthur Fundamental Intermediate School, MEN=Mendez Fundamental Intermediate School, MIT=McFadden Institute of Technology, SAN=Santiago Academy, SIE=Sierra Preparatory Academy, VIL=Raymond A. Villa Fundamental Intermediate School, WIL=Willard Intermediate School

C T E BENEFITS

- Career Exploration
- Hands-On Training
- Academic Rigor & Support
- Networking with Businesses
- College Credit Classes
- Professional Mentorships
- Industry Certifications
- Competitions
- Internship Opportunities

13 SAUSD INDUSTRY SECTORS

Arts, Media, & Entertainment — Designing, exhibiting, performing, writing, and publishing multimedia content, including visual and performing arts.

Business & Finance — Planning, organizing, and evaluating business functions essential to efficient and productive business operations.
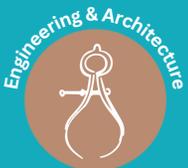
Engineering & Architecture — Providing scientific research and technical services, including laboratory and testing services and development.

Health Science — Planning and providing therapeutic, diagnostic, support, and biotechnology services.

Information & Communication — Technical careers related to the development and management of hardware, software, and system integration.

Transportation — Planning and movement of people, materials, and goods by road, pipeline, air, rail, and water, including equipment maintenance.

Marketing, Sales, and Service — Students study communication, product and service marketing, and promotion and selling concepts, to learn to how to be competitive in a global marketplace.

Public Services — Plan and provide legal, public safety, and protective services, including professional and technical support.

Education & Child Development — Managing and providing educational and training services related to learning support services.

Fashion & Design — Study design trends, sketch select fabrics, and oversee the final production of clothing.

Hospitality & Tourism — The management and operations of food services, attractions, recreation events, and travel-related services.

Building & Construction Trades — Careers in designing, planning, managing, building, and maintaining the built environment.

Manufacturing & Product Development — Students learn how to develop and manufacture new products using CAD software, graphic design software, machine tools, welding, and more.

Project Lead The Way

Project Lead The Way courses in computer science, robotics, engineering, and more, empower students to develop and apply in-demand, transferable skills by exploring real-world challenges.

PLTW
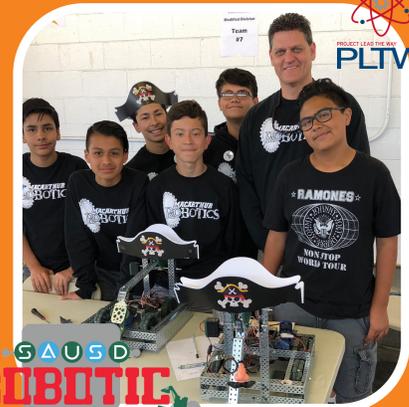
SAUSD ROBOTIC INVITATIONAL CHALLENGE

Career Technical Education (CTE)

Career Technical Education (CTE) provides students with academic, technical, real-world knowledge, skills, and the experience they need to be prepared for a variety of college and career options.

CTE™ Career Technical Education — Santa Ana Unified School District

714-241-6588

www.sausd.us/cte

@ctesausd