

DESIGN AND TECHNOLOGY ACADEMY



The Design and Technology Academy, housed at Monterey Trail High School in the Elk Grove Unified School District, provides a rigorous four-year program designed to give students training, information and resources in the areas of engineering, computer science and construction design/envirosapes. Students are eligible to apply to CSUS through the Accelerated College Entrance Program for transferable college credit.



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Monterey Trail High School
Design and Technology Academy
8661 Power Inn Road
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Monterey Trail
High School's

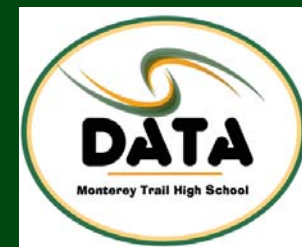
DESIGN
AND
TECHNOLOGY
ACADEMY



Designing a brighter future



Empowering tomorrow's
leaders



Three Unique Programs



Classrooms and labs with state-of-the art equipment and technology



One academy - with teachers from industry and academia



Engineering

Students engage in hands-on activities to explore the nature of various engineering fields. Students also learn about technology sectors such as manufacturing, construction, power and energy, communications, transportation and agriscience.

Teams are formed to develop, design, build and present a functional prototype. Students perform different manufacturing processes and learn various technologies and concepts such as:

- Manual and Computer Numerical Control (CNC) machining
- Arc and MIG welding machines
- CNC plasma cutting
- Robotics
- Electronics
- Pneumatics
- Mechanical systems

Computer Science

Students concentrate on computer science including web page design, computer maintenance and upgrading, computer troubleshooting, computer programming, graphics and animation, network configuration & administration. Industry recognized pre-certification is available including A+ and i-Net for computer science.

Construction Design

Enviroscapes:
Students examine current environmental and ecological issues with an emphasis on cross-curricular studies within science, social science and technology. They evaluate local and global environmental concerns and develop potential solutions to these problems. This class works in conjunction with Advanced CADD.

Advanced CADD (Architectural):
This course introduces students to architectural design and drafting with an emphasis on the ecological aspects residential communities have on the environment. Architectural drafting pulls critical environmental information from the Enviroscapes course. The student is required to incorporate the knowledge obtained from Enviroscapes into the architectural design process. Students design, develop and construct a scaled model eco-friendly residential home.

Monterey Trail High School
Design and Technology Academy

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