

Who Is Eligible?

All students who have a high level of interest are encouraged to become part of an academy. Generally, students apply as incoming freshman and sophomores. A junior may apply if they have sufficient Academy Core class units.

Application Process Includes:

- Typed statement of interest and/or special skills student may possess
- Academy Application Form with transcripts
- Interview with Mr. Merker and Mr. Weaver

How Do I Apply?

- Applications packets are available in October.
- Interviews occur in early January.
- Application packets and further information can be obtained in the Sheldon High School Counseling Office. Contact Kim Ficarelli, 681-7500, ext. #43524.

Features of the Program

- Specialized courses
- Advanced technology
- Articulation w/colleges
- Internship opportunities
- Service learning
- Guest speakers
- Academy-related field trips
- Post-secondary guidance
- Senior Project guidance

For more information about the Building Trades/Engineering Academy, contact:

Jeff Merker
Academy Leader
681-7500
e-mail: jmerker@egusd.net



Sheldon High School

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What is The Building Trades and Engineering Academy?

This academy responds to students interested in exploring the skilled trades associated with the building industry as well as engineering disciplines. Steadily growing industrial and high-tech manufacturing segments of the local economy combine with an exceptionally strong construction industry to provide context for the academy. Students begin exploration through general introductory courses. Here they survey career opportunities, engineering fundamentals, basic construction tool use and handling, as well as technical communication skills. Higher level courses allow students to explore more specific areas of building construction and engineering. Typical topic areas include:

Building Trades

- Fine Finish Work
- Residential and Commercial Construction

Engineering

- Civil, Structural, Architecture, Surveying
- Mechanical, Robotics
- Computer Aided Drafting (CAD)

The Academy develops sustained partnerships with local businesses, home builders and colleges to ensure coursework relevance, articulation and professional mentoring.

Your Hobbies and Interests May Be the Right Match for This Academy

If you enjoy computers, building with wood, tinkering with cars, sound systems or drones, then this would be an excellent academy choice. If you enjoy design and problem solving and want your math and science skills to work for you, this is the right academy.

Which Careers Are Associated with the Building Trades/Engineering Academy?

This academy will assist students in career opportunities such as:

- Roofers, Framers, Electricians, Plumbers, Finish Carpenters and Heavy Equipment Operators
- Construction Management
- Engineers: Mechanical, Electrical/Electronic, Civil, Environmental, Structural, Aerospace
- Architects
- Drafters

Core Courses in The Building Trades/Engineering Academy

Academy students need seventy units of Academy approved coursework. Required classes include the following:

- Engineering Technology
- Building Trades I

Students must have a combination of four of the following classes:

- Engineering Design A
- Engineering Design B
- Engineering Design C
- ★ • Building Trades II
- ★ • Building Trades III

★ Courses are repeatable for credit.

Students may select AP Physics, AP Chemistry, AP Calculus, Technical Communications or an advanced Computer Programming class for their final course.

The Building Trades/Engineering Academy is designed to introduce students to the ever expanding fields of construction and engineering. Proximity to high technology companies, to many universities and to the vibrant greater Sacramento area provides Academy students to observe and experience construction and engineering in action.