



Pre-Engineering Academy

For High School Students Only

Gordon Cooper Technology Center offers full-time career pathways to high school juniors, seniors and adults. A student is eligible to receive college credit for most full-time career majors. High School students are eligible to receive math credit for various career majors. Courses are offered from 8:10 to 11:10 AM and 12:55 to 3:55 PM Monday through Friday. A student can choose to attend either the AM or PM session. All students must be assessed before entering a career major.

Pre-Engineering is designed to help students explore and investigate the career of engineering. Instruction is done through an academy style schedule offering college preparatory course work in mathematics and science. Engineering classes use a project based curriculum which offers hands-on activities to show relevant applications of mathematical and scientific properties.

- Algebra 2
- Pre-Calculus AB
- Calculus
- Pre-AP Chemistry
- AP Physics B
- Pre-AP Physics
- Principles of Engineering (OHLAP Credit)
- Introduction to Engineering Design (OHLAP Credit)
- Digital Electronics
- Civil Engineering & Architecture
- Aerospace Engineering
- Engineering Design & Development

Pre-Engineering Academy:	
Required Materials	\$30.00
CTSO Dues	\$6.00

Entrance Requirements: This is a three year program for high school students interested in a career involving mathematics and science. Successful completion of Algebra I is a pre-requisite. Students may attend in either the AM or PM session (subject to availability). Attention to detail, analytical thinking and problem solving, and communication skills are qualities that are necessary for success in this program. Positive attitude and self-motivation are also desirable qualities.

Academic Credits: Algebra II, Pre-Calculus, AP Calculus, Pre-AP Chemistry, Pre-AP Physics, AP Physics, Principles of Engineering, Introduction to Engineering Design

College Credit: None

Certification Testing: This academy is designed to prepare high school students for success in college study of engineering or math/science intensive fields. Graduates from the academy should plan to pursue a University Level track to obtain a degree in some area of engineering, or math/science related field.

Potential Salary Range: (contact instructor for info.)

Instructors: Sue Ellen Frerichs (405) 273-7493 ext 210	Email: suef@gctech.org
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