



Engineering Program of Study

Prepare for your future in aerospace engineering and robotics through the application of advanced science, math, and technology.

RECOMMENDED COURSE SEQUENCE

1 Principles of Applied Engineering (1 credit) (8th - 10th Grade)
Develop skills needed to create advanced technical drawings and computer aided designs used during the design and concept process through production.



2 Aeroscience 1 (HCTC) (2 credits) (11th Grade)
Develop engineering concepts to meet current aerospace needs. Design, build and operate unmanned aerial vehicles such as hypersonic boost gliders, high performance rockets reaching up to 5 miles, and have the opportunity to earn a Federal Aviation Agency license as a commercial Small Unmanned Aerial System pilot.



3 Aeroscience 2* (HCTC) (2 credits) (12th Grade)
Apply advanced engineering concepts for current aerospace needs by designing, building and operating rockets up to 1200 lbs., 70 miles altitude, 2300 mph. Students may earn a Federal Aviation Agency license as a commercial Small Unmanned Aerial System pilot.

For more information about CTE Course requirements, view our EMS ISD Course Description Handbook.

**Indicates a TEA approved Advanced*

