

Sponsors

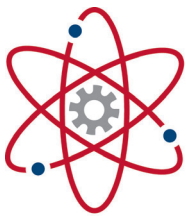
Thankyou to the following universities for partnership with the Engineering Academy

UHS Engineering & UHS Robotics
Partnered with



EMBRY-RIDDLE
AERONAUTICAL UNIVERSITY

Partnered with:



PROJECT LEAD THE WAY

PLTW

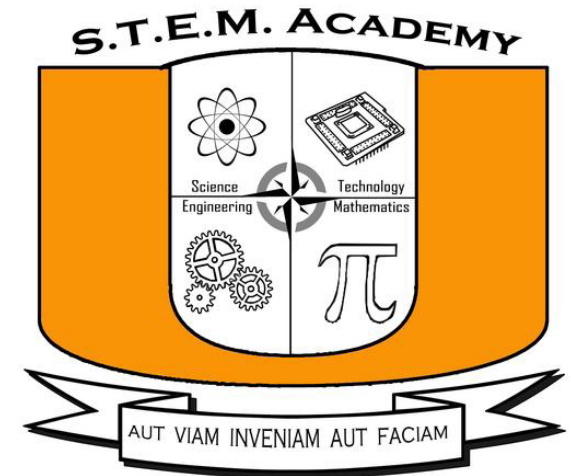
Preparing students for the global economy

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Follow the Creed
Courage
Strength
Knowledge
Respect

Engineering Academy



Motto

Aut Viam Inveniam Aut Faciam

Translation

I'll either find a way or make one

INTRODUCTION TO ENGINEERING DESIGN HONORS

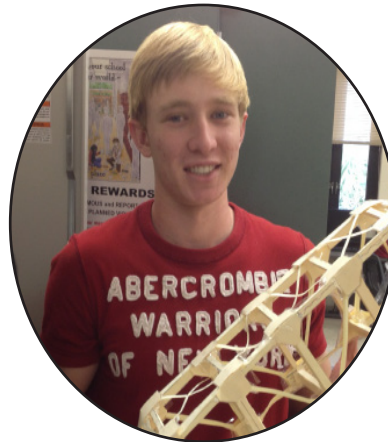
In this course, students use 3D solid modeling design software to help them design solutions to solve proposed problems. Students will learn how to document their work and communicate solutions to peers and members of the professional community. This course is designed for 9th or 10th grade students. The major focus of the IED course is to expose students to the design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards and technical documentation. *There is a \$20 Mandatory Lab Fee for this Course.*



PRINCIPLES OF ENGINEERING HONORS

This honors survey course of engineering exposes students to some of major concepts they'll encounter in a postsecondary engineering course of study. Students have an opportunity to investigate engineering and high-tech careers and to develop skills and understanding of course concepts. Students employ engineering and scientific concepts in the solution of engineering design problems.

They develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students also learn how to document their work and communicate their solutions to peers and members of the professional community. This course is designed for 10th or 11th grade students. *There is a \$20 Mandatory Lab Fee for this Course.*



Aerospace Engineering Honors

The major focus of this honors course is to expose students to the world of aeronautics, flight and engineering through the fields of aeronautics, aerospace engineering and related areas of study. Lessons engage students in engineering design problems related to aerospace information systems, astronautics, rocketry, propulsion, the physics of space science, space life sciences, the biology of space science, principles of aeronautics, structures and materials, and systems engineering. Students work in teams utilizing hands on activities, projects and problems and are exposed to various situations faced by aerospace engineers. *There is a \$20 Mandatory Lab Fee for this Course.*

INDEPENDENT DIRECTED STUDY

The Independent Directed Study course is a project based program of studies for the fourth year Engineering student. The projects are developed by the Engineering department and the student. In addition, the Engineering department at UHS will partner with local high tech businesses so that the students will be able to participate in job shadowing and membership programs in the engineering fields. *There is a \$20 Mandatory Lab Fee for this Course.*