

**2024-2025 SCHOOL YEAR**

Engineering Design 1 CP SPT

Grades: 9th Grade, 10th Grade, 11th Grade, 12th Grade

Fees: \$425 plus \$50 supply fee

Prerequisites:

Algebra 1 (completed or concurrent)

Course Credit: 1 science elective (STEM)

REQUIRED MATERIALS

- A low-temp glue gun and glue sticks
- 12"/16cm Ruler (standard and metric)
- Small hand tools (needle nosed pliers, screwdrivers, coping saw, X-acto knife, soldering iron)
- Graph paper (engineering graph paper or standard ¼ inch)
- Three-ring binder with five tabbed dividers
- scientific calculator ([example](#)), ([example](#))
- [Geometry Kit](#)

- As an extra precaution this year, all students enrolled in a UHC science class will need to bring their own safety glasses to class. If you do not already have a pair in your home, you can purchase them [HERE](#). For students who wear glasses, [THESE](#) will work well.

Course Description

This course is designed to give an in-depth study of engineering and design through hands-on projects. Units include team building, aerospace, transportation, architecture, construction, electronics, and various “out of the box” problem-solving projects with an emphasis on real-world applications.

To be successful in this class:

Students must be able to work alone and in groups, follow directions, and complete in-class projects and assignments within the given time frame. Students must also be able to complete assignments to be done outside of class time by the given due date. Students can expect to work on homework 3-5 hours a week.



Meet Heidi Dannelly

Education: BA, Language & International Trade from Clemson University with 30 credits in Chemistry and Physics

Teaching Experience: Homeschooling own children 2 years.

UHC courses taught:

- Physical Science

Began teaching at UHC in 2023

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