



**2025-2026 SCHOOL YEAR**

# Middle School Engineering GVL

Monday AND Wednesday

**Grades:** 7th Grade, 8th Grade

**Fees:** \$360 plus (plus a \$45 lab fee)

## REQUIRED MATERIALS

- A low-temp glue gun and glue sticks
- Elmer's glue sticks
- [Geometry Kit](#)
- scientific calculator ([example](#)), ([example](#))
- 12" Ruler (standard and metric)
- X-acto knife (no pocket knives or box cutters)
- Notebook and Graph paper (engineering graph paper or standard 1/4 inch)
- 3 ring binder with 5 tabbed dividers

# Course Description

This course is designed as an introductory study of engineering and architecture. It provides the opportunity for students to learn through hands-on projects, and teaches the processes and knowledge needed to solve real-world problems. Units include team-building, transportation, architecture, construction, graphic design, aerospace, and various “out of the box” problem-solving projects.

The course is an elective and is not a complete middle school science credit unless paired with completion of a text such as [God’s Design for the Physical World: Inventions and Technology](#) published by Answers in Genesis. Students can expect to spend 1-3 hours a week on homework assignments.

## 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 must be able to learn various computer applications on their own, or seek help from the teacher, before assignments are due.



## Meet Carolyn Collett

**Education:** Bachelor's degree in Engineering and Technology Education from Virginia Tech

**Certifications:** SC certified Industrial Technology Education

**Teaching experience:** eight years in the public school setting

**UHC courses taught:**

- Middle School Engineering
- Middle School Intro to Physics
- High School Physical Science
- High School Engineering 1
- High School Engineering 2
- 6th grade Ecology
- Google Apps
- Lego WEDO robotics 2nd-5th grade

Began teaching at UHC in 2007

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