



DESIGN AND MODELING: ENGINEERING



STUDENT VOICE

"You get the opportunity to learn how to create something using 3D software and then can print it out. You also get to do build challenges." ~Giada

"It is a good elective if you like hands on activities like building or creating puzzles." ~Maddie



HS CONNECT

Shadle Park offers a variety of Industry and Manufacturing courses:

- Aerospace Engineering and Manufacturing 1 & 2
- Manufacturing/ Material Processing- Woods 1 & 2
- Manufacturing/ Material Processing- Metals 1 & 2
- Introduction to Automotive Electrical and Computer Sytems.



PARTICIPATION EXPECTATIONS

- Students will use the computer in class as well as complete hands-on building projects.
- Projects are completed individually and with a partner.
- Sometimes builds don't work out like you plan, that's ok, and you try something new.
- Students will use a variety of technology, materials, and tools and must follow the safety expectations for each.

COURSE DESCRIPTION

Engineering is **one semester** class that uses the Design Process for every project we create. It is a mixture of time on the computer and building models. You will learn how to create different types of sketches as well as use 3D modeling software to plan projects. Each student has a Project Budget and will learn how to track their spending and earnings as they complete projects throughout the semester.

WHY CHOOSE ENGINEERING?

You enjoy using the **computer, building, designing,** and coming up with a **solution** to a problem, then **Engineering** is for you!

Learn How To...

- Use the Design Process to plan and create a project.
- Build different projects like bridges, puzzle cubes, self-propelled cars, paper roller coasters and others.
- Use 3D modeling software to create 3D models.
- Use the 3D printer to print a model.
- Track a budget for buidling.

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