



Instructors:

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Offered at:



**Leads into the following
College Majors:**

- Engineering
- Drafting
- Robotics Technology
- Applied Physics

Engineering



In this course, students:

- Apply a structured approach to solving problems, such as defining a problem (including customer needs), brainstorming, researching and generating ideas, identifying criteria and constraints, exploring possibilities, making a model (physical, mathematical, conceptual), evaluating the solution using standards and specifications (testing), and communicating results.
- Apply fundamental scientific and mathematical laws and principles relevant to engineering and technology to a variety of problems.
- Learn to design, build, and control complex robots.
- Learn to create models in Excel and SolidWorks.
- Compete in SkillsUSA.

Industry Certifications:

- SolidWorks, Autodesk Inventor

Possible Career Pathways:

Engineer or Engineering Technician in fields such as:

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|-----------------|--------------|---------------------|----------------------|
| - Environmental | - Biomedical | - Computer Software | - Robotic/Automation |
| - Mechanical | - Civil | - Electrical | - Aeronautical |

"The Engineering program gave a hands-on engineering experience which will definitely help me in the future. The program has given me great insight in what the future may hold and what I should expect when pursuing this major."

~ Mandeep Singh, Canyon del Oro Graduate