

# Engineering Principles I

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- PS 1 Students will understand and develop positive work ethics, communication skills, and leadership skills. ([Strand 3](#))
- PS 2 Students will make accurately proportioned sketches using correct drawing conventions. ([Strand 3, Standard 6](#))
- PS 3 Students will create and utilize an engineering notebook per established conventions. ([Strand 3, Standard 7](#))
- PS 4 Students will identify the qualities of successful engineering design, recognize its role in society, and develop projects using an engineering design process. ([Strand 4](#))
- PS 5 Students will identify and explain the elements of an engineering design process. ([Strand 4, Standard 5](#))
- PS 6 Students will translate design requirements into a design solution. ([Strand 4, Standard 8](#))
- PS 7 Students will build and test designs against design specifications, evaluate the results of those tests, and present their analyses. ([Strand 4, Standard 13](#))
- PS 8 Students will understand ways in which Computer Engineering can enhance the health and well-being of individuals. ([Strand 6](#))
- PS 9 Students will understand ways in which Electrical Engineering can enhance the health and well-being of individuals. ([Strand 7](#))