

# *General Engineering - CPS Specialty (GENR)*

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## **GENR 1110. Engineering Design. (4 Hours)**

Presents the engineering design process using case studies for a variety of engineering disciplines. Develops problem-solving skills used in engineering design. Introduces students to the use of spreadsheet tools to solve engineering problems including data reduction, and visualization of data and functions. Design topics include problem formulation and specification, creativity, evaluation tools, patents, ergonomics, system design, manufacturing, ethics in engineering, and presentation techniques. Presents engineering graphics focusing on developing three-dimensional visualization skills and computer-aided design (CAD) application. Students develop an original design solution to a technical problem as a term project.