

MCET 106C : Advanced CAD Modeling

Builds on the skills learned in MCET 105C. Advanced features of CAD will be explored and demonstrated in their application to mechanical design. CAD program used is latest version SolidWorks. Skills learned include advanced part features (sweep, loft, and datum curves), design automation techniques (configurations and design tables), advanced assemblies (animation, simulations, and top-down design), and advanced design features (sheet metal and mold design). Participants in the class are eligible to download a student version of SolidWorks and take the Certified SolidWorks Associate CSWA exam.

Credits 3

Lab/Practicum/Clinical Hours 2

Lecture Hours 2

Prerequisite Courses

MCET 105C

Learning Outcomes

- Be proficient in the following aspects of CAD modeling: sketching, datum features, advanced features, assemblies, detailed and assembly drawings, animations, and top-down design.