

Advanced Computer-Aided Design

12-credit Advanced Technical Certificate

About the Certificate

Upgrade skills necessary for expertise in computer-aided design using Pro-E software. Currently, this knowledge is in high demand by employers. Completion of an associate degree in Mechanical Design or equivalent is necessary to enroll.

What is an Advanced Technical Certificate?

An advanced technical certificate (ATC) is designed for professionals with work experience or prior education in a degree program.

How to Enroll

A permit is needed before registering for classes within this certificate.

Fill out the permit at
www.wctc.edu/atcpermitcad
or call 262.691.5345.

For more information call 262.691.5200.

Required Courses

Course Number	Course Name	Credits
606-190	Pro-Engineer I	2
606-191	Pro-Engineer II	2
606-192	Pro-Engineer III	2
606-194	Pro E/Adv Modeling	2
606-196	Pro-E Detailing	2
606-198	Large Assembly Management LAM	2
Total credits		12

Curriculum is current as of catalog printing.

Advanced Computer-Aided Design Required Courses

606-190 Pro-Engineer I	2
Access a 3-D modeler through this course, the first in a series for mechanical designers in the advanced technical certificate in computer-aided design. Study design, assembly, and drawing creation. Create basic parts that will be used in future courses.	
606-191 Pro-Engineer II	2
Use a 3-D modeler while focusing on assembly creation, part design, and drawing creation. Create many of the parts and assemblies that will be used in future courses. Prerequisites: 606-190	
606-192 Pro-Engineer III	2
Use a 3-D modeler while studying drawing creation and assembly and part creation. Create drawings of the parts that were created in the first two courses. Conduct database management of the Pro-E system. Prerequisites: 606-191	
606-194 Pro E/Adv Modeling	2
Work with modules such as Pro-Mechanica (to simulate a Pro-E model), Pro-Sheet Metal, and Pro-Cable during this advanced modeling course using Pro-E, which is part of the advanced technical certificate in computer-aided design.	
606-196 Pro-E Detailing	2
Explore the way Pro-E handles drawing creation and take an in-depth look into ProEngineer's drawing mode. It is recommended that students be able to read and interpret a typical company's manufacturing drawings before enrolling in this course. Prerequisites: 606-190	
606-198 Large Assembly Management LAM	2
Learn techniques to manage and manipulate assemblies in a productive fashion while exploring topics such as simplified representations, shrink wrap, lay outs, interchange groups, and top-down design.	