COMPUTER-AIDED DRAFTING & DESIGN TECHNOLOGY

ENGINEERING, SCIENCE & MATHEMATICS CAREER PATHWAY

BUILD YOUR BLUEPRINT FOR SUCCESS!

TCC's computer-aided drafting and design (CADD) programs provide students with a solid foundation of largely technical classes to prepare graduates for an entry-level position as a CADD operator or designer in almost any field.

Students choosing the mechanical option learn CADD procedures to prepare design work for anything from skateboard wheels and golf clubs to common industrial products, including ships, building structures, commercial goods and the like. Students working in the architectural areas of the program design 3-D models of buildings, forgoing traditional blueprints.

PROGRAMS

ASSOCIATE OF APPLIED SCIENCE IN COMPUTER-AIDED DRAFTING & DESIGN TECHNOLOGY

Complete in as few as 4 semesters / 67 credits

This program teaches the principles of computer-aided drafting and design through a hands-on curriculum that reflects current industry standards. Students gain expertise designing in AutoCAD and Inventor software and using 3-D printing to visualize and validate designs.

ASSOCIATE OF APPLIED SCIENCE IN COMPUTER-AIDED DRAFTING & DESIGN TECHNOLOGY WITH SPECIALIZATION IN ARCHITECTURAL DRAFTING AND DESIGN

Complete in as few as 4 semesters / 67 credits (Virginia Beach)

Course work in this specialization includes training in computer software, construction materials and methods, site and landscape design, rendering and animation, engineering mechanics, print reading and cost estimating. You'll learn a full array of design skills, including manual drawing and architectural model building. Students may prepare to transfer to a bachelor's degree program in architecture or civil engineering.

CERTIFICATE IN COMPUTER-AIDED DRAFTING & DESIGN TECHNOLOGY

Complete in as few as 2 semesters / 33 credits

In one year or less you'll learn engineering drawing fundamentals and the basics of computer-aided drafting and design. Acquire skills in basic drafting, become familiar with AutoCAD software and rapid prototyping/3-D printing, and gain an introduction to common standards and practices used in preparing engineering and architectural drawings.

TCC FAST FACT

Depending on your course work, you'll graduate proficient in AutocCAD, Revit, Inventor Solid Modeling, and 3ds Max Software.

POSSIBLE CAREER PATHS

- Computer-aided design technician
- Engineering technician
- Mechanical or architectural designer
- Architectural renderer

IS THIS PROGRAM FOR YOU?

Yes, if you:
- are interested in design
- are detail oriented and creative
- enjoy working with computers

PROGRAM AVAILABILITY

- Portsmouth
- Virginia Beach