Drafting is a graphic language used by industry to communicate ideas and plans from the creative design stage through production. A computer aided drafter and designer is a technical specialist with broad based skills for architectural, civil, mechanical and manufacturing fields.

The Computer Aided Drafting and Design (CADD) at West Kentucky Community and Technical College utilizes two- and three-dimensional modeling with conventional methods of graphic communication to solve basic design related problems. Students will be exposed to both theory and lab projects as they learn to create a variety of drawings.

CURRICULUM
WKCTC’s computer aided drafting curriculum utilizes the newest in rapid prototyping technology to fabricate material objects directly from CAD solid models. The rapid prototype technology/process integrates CADD and Computerized Machining to cover in detail the aspects of this technology and its uses, benefits, and applications.

CREDENTIALS OFFERED ARE:
Students can earn the Associate in Applied Science in General Occupational/Technical Studies degree. Credit earned through certificate and diploma program completion is applicable toward the degree when consistent with the objectives of the student’s individual plan of study.

Diploma
Computer Aided Drafting and Design

Certificate
Computer Assisted Drafter
Detailer
Drafter Assistant
COURSE INFORMATION

**CAD 100 Introduction to Computer Aided Design:** Used computer graphic workstation in the application of fundamental principles and capabilities of CAD, basic drafting conventions, and operations. Provides an in-depth study of computer aided drafting commands, terminology, command utilization, and skill development.

**CAD 102 Drafting Fundamentals:** Explores drafting and its processes: use and maintain equipment and supplies; determine line weights; measure and read line lengths with drafting scales; measure angles; and draw lines, circles, arcs, and irregular curves; lettering; geometric construction; sketching; orthographic projection; and dimensioning. Characteristics of lines and planes in orthographic projection and the principles applied to show the size and shapes of objects.

**CAD 112 Engineering Graphics:** Explores lines and planes as they relate to orthographic projection to show the size and shape of objects. Includes application of principles and graphic elements of sectioning to show interior detail; the techniques involved in creating oblique projections, axonometric projections, and perspective drawings; and the dimensioning techniques and symbol usage common to all drafting disciplines.

**CAD 130 Descriptive Geometry:** Examines the spatial relationships between points, lines, and planes in various orthographic projections with graphical solutions; explores the processes to solve problems using auxiliary view projection methods, revolutions, intersections, and developments.

**CAD 200 Intermediate Computer Aided Drafting:** Produce advanced two- and three-dimensional object drawings with CAD software to learn the techniques of drafting, layering, and symbols associated with one or more design applications, and calculate perimeter, area, and mass associated with the drawing.

**CAD 201 Parametric Modeling:** Introduces creation of parametric models and explores associative function and flexibility of concurrent part design.

FINANCIAL AID

WKCTC participates in a full range of federal and state financial aid programs that include grants, loans, work-study, and scholarships. For information on any of these programs, contact the Financial Aid office at 1-855-G0-WKCTC or the Scholarship office by calling 270-554-6203.

CONTACT INFORMATION

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270-534-3394

MORE INFORMATION

Visit westkentucky.kctcs.edu, then navigate to:
- Academics
  - Academics Divisions
    - Applied Technologies
      - Computer Aided Drafting and Design

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