

# COMPUTER AIDED DRAFTING AND DESIGN

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A computer aided drafter and designer is a technical specialist with broad-based skills for architectural, civil, mechanical, and manufacturing fields. In this program, the students are taught manual drafting techniques, 2D and 3D CAD, and 3D printing. Specific skills taught include, but are not limited to, lettering, geometric construction, orthographic projections, dimensioning and tolerancing, and related technical processes. These skills are required to transform specifications and instructions of architects, designers, and engineers into complete and precise drawings. The drafter is a skilled technician with a thorough understanding of the graphic language and is an indispensable contributor to the engineering design team.

Progression in the Computer Aided Drafting and Design program is contingent upon achievement of a grade of "C" or greater in each technical and mathematics course with maintenance of a 2.0 cumulative grade point average or above (on a 4 scale).

## Degrees

- Computer Aided Drafting and Design - AAS (<https://catalog.kctcs.edu/programs-of-study/aas/computer-aided-drafting-design/computer-aided-drafting-design-aas/>)

## Diplomas

- Computer Aided Drafting and Design - Diploma (<https://catalog.kctcs.edu/programs-of-study/aas/computer-aided-drafting-design/computer-aided-drafting-design-diploma/>)

## Certificates

- 3D Modeler - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/computer-aided-drafting-design/3d-modeler-certificate/>)
- Architectural Designer - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/computer-aided-drafting-design/architectural-designer-certificate/>)
- Building Information Modeling - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/computer-aided-drafting-design/building-information-modeling-certificate/>)
- Civil Drafter - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/computer-aided-drafting-design/civil-drafter-certificate/>)
- Computer Assisted Drafter - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/computer-aided-drafting-design/computer-assisted-drafter-certificate/>)
- Detailer - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/computer-aided-drafting-design/detailer-certificate/>)
- Drafter Assistant - Certificate (<https://catalog.kctcs.edu/programs-of-study/aas/computer-aided-drafting-design/drafter-assistant-certificate/>)