

# Computer Aided Drafting and Design Technology

## Overview

The Computer Aided Drafting and Design (CADD) program offers an exciting and profitable future for graduates. Students who enroll in CADD at Grayson College learn the latest drafting software as well as the essentials for a challenging and satisfying career. Students learn basic drafting techniques, 2D drawing, solid modeling, 3D parametric modeling, and 3D printing. As technology expands, the need for technical support people also expands. Over 95% of Grayson College's CADD graduates get a job in the drafting field or continue their education at a four-year institution. 3D modeling is rapidly growing in various industries including; medical, art, food, clothing, film, animation, gaming, architecture, manufacturing, industrial design, and interior design. The CADD curriculum at Grayson College prepares students for jobs in mechanical, electromechanical, architectural, industrial and technical illustration, as well as the previously mentioned areas of interest.

The Computer Aided Drafting and Design program offers an Associate of Applied Science Degree, the Drafting Assistant Certificate and the CADD Technician Certificate.

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## Course Requirements

The CADD Technician Certificate and the Drafting Assistant Certificate require a High School Diploma or equivalent. The Associate of Applied Science Degree requires that TSI requirements are met.

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## Capstone Experience

Graduation with a CADD Certificate or an Associate of Applied Science Degree in Computer Aided Drafting and Design requires the successful completion of a Comprehensive Exit Exam.

## AAS Degree Requirements

### Associate of Applied Science - Computer Aided Drafting and Design Technology

Subject	Semester Hours
<a href="#">DFTG 1309</a> (Basic Computer Aided Drafting)	3
<a href="#">DFTG 1317</a> (Architectural Drafting - Residential)	3
* <a href="#">SPCH 1311</a> or <a href="#">1321</a>	3
<a href="#">DFTG 1405</a> (Technical Drafting)	4
*Lang, Phil, Culture/Creative Arts Core	3
<a href="#">DFTG 2331</a> (Adv Technologies in Architectural Drafting)	3
<a href="#">DFTG 1433</a> (Mechanical Drafting)	4
<a href="#">DFTG 2419</a> (Intermediate Computer-Aided Drafting)	4
*Social and Behavioral Science	3
<a href="#">DFTG 2402</a> (Machine Drafting)	4
<a href="#">DFTG 1430</a> (Civil Drafting)	4
<a href="#">DFTG 1445</a> (Parametric Modeling and Design)	4
<a href="#">ENGL 1301</a> (Composition I)	3
<a href="#">DFTG 2440</a> (Solid Modeling/Design)	4
<a href="#">DFTG 2438</a> (Final Project - Adv. Drafting)	4
<a href="#">DFTG 2450</a> (Geometric Dimensioning & Tolerancing)	4
<a href="#">MATH 1314</a> (College Algebra)	3
<b>total:</b>	<b>60</b>

Capstone Experience: All students must complete the capstone requirement. Successful completion of a comprehensive exit exam prior to graduation.

\*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

# Certificate Degree Requirements

## Computer Aided Drafting Technician - Certificate

Subject	Semester Hours
<a href="#">DFTG 1309</a> (Basic Computer-Aided Drafting)	3
<a href="#">DFTG 1317</a> (Architectural Drafting - Residential)	3
<a href="#">DFTG 1405</a> (Technical Drafting)	4
* <a href="#">SPCH 1311</a> or <a href="#">1321</a>	3
<a href="#">DFTG 2331</a> (Adv. Tech in Architectural Design & Drafting)	3
<a href="#">DFTG 1433</a> (Mechanical Drafting)	4
<a href="#">DFTG 2419</a> (Intermediate Computer-Aided Drafting)	4
<b>total: 24</b>	

Capstone Experience: All students must complete the capstone requirement. Successful completion of a comprehensive exit exam prior to graduation.

\*Please review your Student Planner or contact your Student Success Coach/Faculty Mentor to review which courses may be used to fill this degree requirement.

## Drafting Assistant - Certificates

Subject	Semester Hours
<a href="#">DFTG 1309</a> (Basic Computer-Aided Drafting)	3
<a href="#">DFTG 1317</a> (Architectural Drafting - Residential)	3
<a href="#">DFTG 1405</a> (Technical Drafting)	4
<a href="#">DFTG 2419</a> (Intermediate Computer-Aided Drafting)	4
* <a href="#">SPCH 1311</a> or <a href="#">1321</a>	3
<b>total: 17</b>	

Capstone Experience: All students must complete the capstone requirement. Successful completion of a comprehensive exit exam prior to graduation.

\*Please review your Student Planner or contact your Student Success Coach/Faculty Advisor to review which courses may be used to fill this degree requirement.

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