

COMPUTER ASSISTED DRAFTING & DESIGN (A.S.)



The Computer Assisted Drafting & Design (CADD) program combines general education and workplace skills with a strong focus on computer-aided drafting and design. You will develop foundational skills in blueprint reading and architectural drafting, along with specialized skills in computer-aided design, including three-dimensional drafting. The program is designed to prepare skilled drafting technicians for entry-level positions in a variety of career fields where further specialization can occur at the place of employment. An internship field experience is required. This program is offered in Winooski.

PROGRAM REQUIREMENTS

- ARC-1011 - Introduction to Drafting & Blueprint Reading
 - ARC-1111 - Architectural Drafting I
 - ARC-1112 - Architectural Drafting II
 - ARC-1211 - CAD I
 - ARC-1212 - CAD II
 - ARC-2010 - 3D Applications
 - CIS-1042 - Microcomputer Applications II*
 - PHY-1041 - Physics I (4 cr)*
 - MAT-1330 - Pre-Calculus Math (4 cr)*
 - Business Management course
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- Choose any 3-credit art course*
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- ARC-2860 - Community & Work Experience

Electives – 1 - 3 credits

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* You may use a course to meet both a program requirement and a general education requirement; however, you may not use a single course to meet two general education requirements.

GENERAL EDUCATION REQUIREMENTS

Core Competencies

- First Semester Seminar
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- Technological Literacy
CIS-1042 - Microcomputer Applications II
 - Communication
Meets graduation standard in oral communication
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- English Composition
 - Mathematics
MAT-1330 - Pre-Calculus Mathematics (4 cr)
 - Research & Writing Intensive
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Areas of Inquiry

- Scientific Method
PHY-1041 - Physics I (4 cr)
 - Human Expression
Any 3-credit art course
-
- Human Behavior
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Integrative Approaches

- Global Perspectives & Sustainability
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- Seminar in Educational Inquiry
Meets graduation standard in writing & information literacy
 - Quantitative Reasoning Assessment
Meets graduation standard in quantitative reasoning

MINIMUM TOTAL CREDITS IN DEGREE: 60

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Computer Assisted Drafting & Design Program Outcomes

Successful graduates will be able to:

- demonstrate skills that meet industry standards in the use of CAD technology;
- develop professional presentations of drawings for a variety of purposes and audiences;
- work effectively as part of a team in various professional environments and technical businesses;
- display a portfolio of professional quality products to potential employers;
- demonstrate academic skills required of all CCV graduates including competency in writing, information literacy, oral communication, and quantitative reasoning; and
- explore pathways for educational and career development in the student's field of study.

How Our Degree Works

CCV's Computer Assisted Drafting & Design degree is a sequential program that allows you to build your skills over four semesters. The required courses for this degree are offered in Winooski, and the general education and elective courses are available at CCV's 12 locations statewide and online. The program will prepare you for an entry-level position as a drafting technician in a variety of career fields where you can further specialize at your place of employment. In addition to acquiring a general education and useful workplace skills, you will develop a foundation in blueprint reading and architectural drafting. You'll also develop proficiency in computer-aided design, including three-dimensional drafting.

Why Our Degree Works

CCV offers courses using the most up-to-date CADD software. Nevertheless, once you begin work in the field, you will find that learning new skills, keeping current with technology changes and communicating with other members of a design team are critical to your career. A CCV degree prepares you for long-term success by including essential skills in communication and business management as part of the program.

Career Opportunities

According to the U.S. Bureau of Labor Statistics, industrial growth and increasingly complex design problems associated with new products and manufacturing processes will increase the demand for drafting services. Opportunities are expected to be best for individuals with at least two years of college or post-secondary training, strong technical skills, and considerable experience with CADD systems.

Employers prefer applicants who have completed post-secondary school training in drafting and who have strong drafting and mechanical drawing skills; knowledge of drafting standards, mathematics, science, and engineering technology; and a solid background in computer-aided design and drafting techniques. In addition, communication and problem-solving skills are important. Many employers pay for continuing education, and with appropriate college degrees, drafters may go on to become engineering technicians, engineers, or architects.

Transfer Options

Graduates of CCV's Computer Assisted Drafting & Design program may continue their education in a related field at four-year colleges. CCV graduates have attended Vermont Technical College and New School of Architecture & Design and can go on to pursue degrees in mechanical engineering, architectural engineering and civil engineering.

"With the support of CCV's faculty and staff, and the program's flexibility, I was able to hold my full-time job and attend classes in the evenings. My CCV degree has allowed me to gain experience in a field that has always been of interest and is now something I pursue passionately. Through CCV I have exceeded my expectations and built a strong foundation for personal success in all my future endeavors."

*—Rich Crook,
CCV graduate in CADD
B.A. candidate in
Architecture & Design,
San Diego, CA.*

**For more information
visit www.ccv.edu,
call 800-CCV-6686 or
your local CCV office.**

CCV is committed to non-discrimination in its learning and working environments for all persons. All educational and employment opportunities at CCV are offered without regard to race, color, gender, sexual orientation, religion, national origin, age, veteran status, or disability.

The mid-range salary for architectural and civil drafters in Vermont is \$34,750 - \$47,430.

(Occupational Employment Statistics, Vermont Labor Market Information, U.S. Bureau of Labor Statistics, July 2007)