

# 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.

All associate degrees include completion of general education requirements which, together with program requirements, constitute a minimum of 60 credits. In some cases program requirements also fulfill general education requirements. You may not use a single course to meet two general education requirements.

## General Education Requirements

### Core Competencies

Complete at least one course in each of the following:

- First semester seminar \_\_\_\_\_
- Technological Literacy  
CIS 1041 - Microcomputer Applications I
- Communication \_\_\_\_\_  
*Meets graduation standard in oral communication*
- English Composition  
ENG 1061 - English Composition
- Mathematics  
MAT 1330 - Pre-Calculus Mathematics
- Research & Writing Intensive \_\_\_\_\_

### Areas of Inquiry

Complete at least one course in each of the following:

- Scientific Method  
PHY 1041 - Physics I
- Human Expression \_\_\_\_\_  
Any 3-credit art course
- Human Behavior \_\_\_\_\_

### Integrative Approaches

- Global Perspectives & Sustainability \_\_\_\_\_
- HUM 2010 - Seminar in Educational Inquiry  
*Meets graduation standard in writing and information literacy*
- Quantitative Reasoning Assessment  
*Meets graduation standard in quantitative reasoning*

## Program Requirements

Courses are listed in the order in which we recommend you take them.

- CIS 1041 - Microcomputer Applications I \*
- ARC 1011 - Introduction to Drafting & Blueprint Reading
- ARC 1111 - Architectural Drafting I
- ARC 1211 - CAD I
- ARC 1212 - CAD II
- ARC 2010 - 3D Applications
- MAT 1330 - Pre-Calculus Mathematics \*
- PHY 1041 - Physics I \*

- Business Management course  
\_\_\_\_\_

- Choose any 3-credit art course\*  
\_\_\_\_\_

- ARC 2860 - Community & Work Experience  
Electives: 1 - 3 credits  
\_\_\_\_\_

Note(s)

\*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.

**Minimum Total Credits in Degree: 60**

## Program Outcomes

### Graduates of the Computer Assisted Drafting & Design program will be able to:

- demonstrate knowledge and skills that meet industry standards and Autodesk certification requirements in the use of CAD technology;
- develop professional presentations of drawings for a variety of purposes and audiences;
- work collaboratively as a team member in various professional environments and technical businesses;
- develop a portfolio of professional quality products;
- 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.

### The Computer Assisted Drafting & Design program is great for you if:

- you are searching for a career in a technical field;
- you are preparing to continue on for a bachelor's degree in engineering;
- you have strong math and science skills; and
- you are interested in the fields of Engineering, Architecture, or Construction.

### Key information and advice for students in the Computer Assisted Drafting & Design program:

- The required courses for this degree are offered in Winooski, and the general education and elective courses are available at CCV's 12 academic centers statewide and online.
- Students will develop proficiency in technical drafting and computer-aided design, including three-dimensional drafting.
- As part of the program, this degree prepares students for long-term success by including essential skills in communication and business management.
- The program prepares students for an entry-level position as a drafting technician in a variety of career fields.
- Students need to complete Pre-Calculus and Physics for this program.

### The Computer Assisted Drafting & Design program prepares you for careers such as:

- Mechanical Drafter
- CAD Designer
- Control Systems Engineer

### Job outlook in Computer Assisted Drafting & Design in the state of Vermont:

<i>Title</i>	<i>Median Salary</i>	<i>Projected Growth (10 Yrs)</i>
Mechanical Drafter	\$54,760	9.1%

Source: Vermont Department of Labor <http://www.vtلمي.info/index.cfm>