

Employment Opportunities

Graduates of Clark's CADD Certificate Program have been successful in finding jobs as AutoCAD Operators, Designers, Drafters, Contract Drafter/Designers and Consultants in a variety of workplaces, such as:

- Engineering and Architectural Firms
- High Tech Industries
- Manufacturing Firms
- City & County Offices
- Department of Transportation
- Utility Companies

With no previous experience, typical salaries start at about \$20,000 per year. As experience and additional education is gained, salaries range from \$25,000 to \$40,000 per year. Advancement in a company depends on individual effort and desire, company size, geographic location, skill and capabilities, and most important, the ability to work with other people professionally.



College Abilities

Clark College has identified six college-wide abilities that help students apply what they learn. The core abilities are taught across the curriculum and students continually practice and improve their skills in the six areas.

Communication

The ability to understand and deliver written, spoken and visual communication clearly and accurately.

Critical Thinking/Problem Solving

The ability to formulate, evaluate and synthesize facts, data ideas, assumptions, values and points of view.

Effective Citizenship

The ability to identify community issues; evaluate and respect various opinions and values; and articulate one's own perspective.

Global/Multicultural Perspectives

The ability to identify, analyze and demonstrate how culture shapes world perceptions, values and behaviors.

Lifelong Learning

The ability to set and revise goals, access resources and assume responsibility for one's own learning.

Information/Technology

The ability to identify resources; retrieve and manage data interpret, evaluate and use information; and adapt to changing technologies.

Clark College does not discriminate on the basis of race color, national origin, sex, disability, age, religion, sexual orientation, gender identity, gender expression, creed, disabled veteran status, marital status or Vietnam-era veteran status in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies

Director for Equity and Diversit
Baird Administration Buildin
(360) 992-2355
(360) 992-2835 (TTY)

Computer Aided Design & Drafting



- Prepare for entry level work as a CADD designer/drafter
- Certificate of Proficiency in Computer Aided Design & Drafting
- Three-quarter program
- Many core classes offered in the evening



Computer Aided Design & Drafting

The Computer Aided Design and Drafting (CADD) Certificate of Proficiency program prepares the student for entry level work as a CADD designer/drafter. Almost every company that is involved with design and/or manufacturing has one or more design/drafting positions, and the majority of those companies use CADD as their primary design and drafting tool. After gaining experience, many people are successful in setting up their own contract design/drafting business.

Clark College currently offers a series of courses in both AutoCAD and SolidWorks, and offers single courses in Rhinoceros and its plug-ins, MicroStation, SketchUp, and ADT (Revit starting 2008). CADD Department personnel strive to take your personal goals into account, and will work with you to customize your degree requirements if warranted. This program is a professional-technical program, and we try to provide the best real-world environment we can. Our teaching and open lab facilities boast fine equipment, and each of the CADD software we teach is up to its current educational version. The program requires a co-op, or internship, for graduation. This experience, driven by you, the student, can be vital for you in gaining successful future employment.

Primary CADD Skills Taught in the Certificate of Proficiency Program:

- AutoCAD
- ADT (Revit starting 2008)
- AutoLISP
- Engineering Graphics
- Rhino, Flamingo, Penguin, and Bongo
- SolidWorks
- SketchUp
- MicroStation
- Rapid Prototyping

Since many of the program courses are computer-based, students should be comfortable in using a computer before entering this Certificate Program.

CADD Certificate of Proficiency Program Outcomes:

- Core CADD software skills demonstrated by your ability to create and manipulate drawings in a multitude of CADD applications.
- Core drafting skills demonstrated on prints of your fully annotated drawings.

- Beginning design skills demonstrated through some tangible output to real-world design projects.
- A foundational understanding of industries that use CADD, as demonstrated through reports on a variety of companies and co-op experience (or prior experience in the field).
- Entry level job readiness displayed in your employment portfolio.
- Essential elements of professionalism, including aspects of communication and team work, as demonstrated by the successful completion of a co-operative work experience, and through your conduct in all other program courses.

Computer Aided Design & Drafting

Certificate of Proficiency

Program Requirements

CADD 101	CAD Seminar I	1 credit
CADD 102	CAD Seminar II	1 credit
CADD 120	Basic Rhinoceros	4 credits
CADD 141	Architectural Drafting I w/AutoCAD	4 credits
CADD 145	AutoCAD Architecture	4 credits
CADD 199	Cooperative Work Experience	5 credits
CADD 207	Presentation Graphics	4 credits
ENGR 112	Engineering Graphics	3 credits
ENGR 114	Basic AutoCAD	4 credits
ENGR 150	Basic SolidWorks	4 credits
ENGL 111	Technical Report Writing I ¹	5 credits
HDEV 198	Portfolio Development ²	1 credit
HDEV 200	Professional Development	2 credits
MATH 103	College Trigonometry ³	5 credits
or 098	Technical Math I	3 credits

Course Alternates to Program Requirements

CADD 140	(evening) substitute for ENGR 114 (daytime)
CADD 150	(evening) substitute for ENGR 150 (daytime)

Program Electives

CADD 110	Basic Sketchup	4 credits
CADD 130	Basic MicroStation	4 credits
CADD 143	Civil Drafting I with AutoCAD	4 credits
CADD 144	Mechanical Drafting I with AutoCAD	4 credits
CADD 154	Intermediate SolidWorks: Drawings	4 credits

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CADD 155	Int. SolidWorks: Top Down Design	4 credits
CADD 160	Intro to CAM	2 credits
CADD 170	Basic Revit	4 credits
CADD 210	Architectural Drafting 2	3 credits
CADD 230	Civil Drafting 2	3 credits
CADD 240	Mechanical Drafting 2	3 credits
CADD 280	Selected Topics: (topics and credits vary)	
CADD 290	Special Project (topic and credits vary)	
ENGR 115	Geometric Dimensioning & Tolerancing	2 credits
ENGR 214	AutoCAD Customization	3 credits
Total Credits Required		45-47 credits

- ¹ ENGL 111 satisfies the Communication Skills General Educational Requirement.
- ² HDEV 198 & 200 satisfy the Human Relation General Education Requirement.
- ³ MATH 103 satisfies the Computational Skills General Educational Requirement.

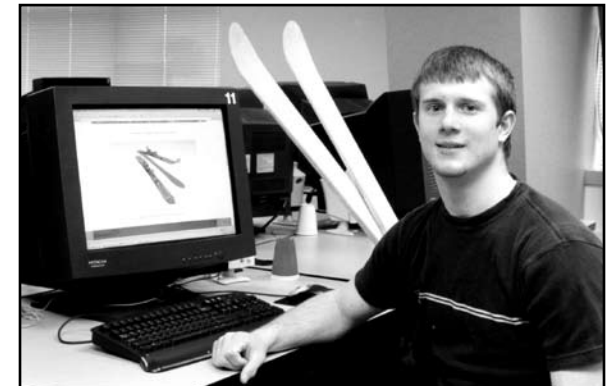
General Preparation

Since many of the program courses are computer-based, students should be comfortable in using a computer before entering this Certificate Program.

High School Preparation

High school preparation for entry into the program should include: mathematics (algebra and geometry), physics and drafting. Testing is required to determine if mathematical and reading levels are adequate for admission to the program.

Students must complete all major area courses with a minimum grade of "C" or better in order to successfully complete the program and earn the award.



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For more information, see the Clark College Catalog or contact the Technology Programs Advisor at (360) 992-2309 or by e-mail: bvogler@clark.edu
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