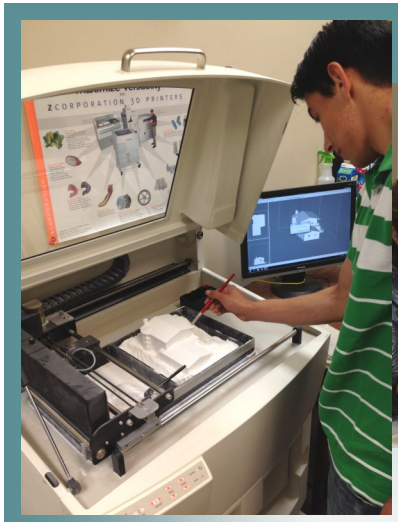
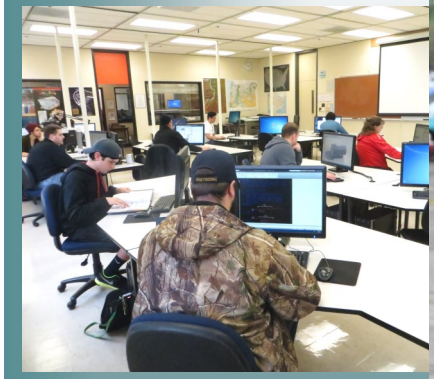
Term 1		Credits	CAD AAS Degree	Architectural Certificate	CAD Certificate
CVL143	Introduction to Civil Survey	3	X	X	
DRF110	Applied Engineering Computations	2	X		
DRF112	Sketching	1	X	X	X
DRF114	Drafting Orientation	2	X		X
**DRF130	CAD 1	3	X	pre-requisite	X
**DRF150	Architectural Drafting 1	3		X	
DRF271	Commercial Drafting with Revit 1	4		X	
MTH070	Elementary Algebra (or higher)	4			X
MTH081	Technical Mathematics 1 *or*	4	X	X	
**MTH111	College Algebra (or higher)	5			
PSY104	Psychology in the Workplace	4			X
Term 2					
WR060	Introduction to Technical Writing 1 *or*	3	X	X	X
**WR121	English Composition-Exposition (or higher)	4			
CVL144	Intermediate Civil Survey	3	X		
DRF110	Applied Engineering Computations	2		X	X
**DRF131	CAD 2	3	X	pre-requisite	X
**DRF150	Architectural Drafting 1	3			X
DRF220	GIS 1	2	X		X
DRF240	Architectural Drafting 2	3		X	
DRF272	Commercial with Revit Drafting 2	4		X	
MTH082	Technical Mathematics 2 *or*	4	X		
**MTH112	Trigonometry (or higher)	5			
PSY104	Psychology in the Workplace	4		X	
Term 3					
DRF095C	Special Projects Drafting & Design	3			X
**DRF132	CAD 3	3	X	X	X
DRF140	3D Modeling with Inventor	3	X		X
**DRF150	Architectural Drafting 1	3	X		
DRF160	Spreadsheets & Database Applications	3	X	X	
DRF170	AutoCAD Certification Preparation	2			X
DRF221	GIS 2	3	X		
DRF240	Architectural Drafting 2	3			X
Drafting elective (CVL, DRF, EGR or CAM prefix)		3			X
DRF241	Structural Drafting	3	X	X	
DRF243	Architectural Design	3		X	
DRF273	Commercial Drafting with Revit 3	4		X	
Term 4					
DRF155	Mapping and Platting	3	X		
DRF210	Parametric Design with SolidWorks	3	X		
DRF230	Introduction to MicroStation PC	3	X		
DRF271	Commercial Drafting with Revit 1	4	X		
PH121	Applied Physics	4	X		
Term 5					
CVL232	Applied Statics & Strengths	4	X		
DRF231	Advanced MicroStation	3	X		
DRF240	Architectural Drafting 2	3	X		
DRF245	Civil Drafting and Design	4	X		
DRF272	Commercial Drafting with Revit 2	4	X		
Term 6					
DRF165	CAD System Administration	3	X		
DRF243	Architectural Design	3	X		
DRF246	Project Development (Civil 3D)	3	X		
DRF273	Commercial Drafting with Revit 3	4	X		
PSY104	Psychology in the Workplace	4	X		
** College Credit Now Classes, check with your high school for current availability					



Drafting

Chemeketa Community College



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Fast Facts and Information **Career**

What is CAD Drafting?

CAD Drafters use software such as AutoCAD to translate sketches and ideas into technical drawings used for manufacture or construction. No new product or building can be produced without drafters. They are valuable members in any design team.

What's the difference between Architects, Engineers, Designers and Drafters?

Profession	Education	Duties
Architect	Bachelors degree required	Design the layout and appearance of a building to meet a client's needs. They usually work on large buildings.
Engineer	Bachelors degree required	Design complex systems. It is their job to make a product or building safe, comfortable and efficient. There are many engineering specialties.
Designer	2-year degree (usually)	Work on small projects like houses or some mechanical devices. Experienced drafters often become designers.
Drafter	2-year degree (usually)	Work with any of the above professionals to create drawings. Drafters help to make sure all of the pieces of a project fit together.
CAD Operator	1-year certificate or less	Work with any of the above professionals to create and modify basic drawings and assist on more complex projects.

Is it for me?

Are you a detail-oriented person? Do you like to understand how things work? Can you visualize the way parts fit together? Are you interested in the way buildings are built? Do you like to use computers? If this sounds like you, consider a career in CAD drafting! Many drafters choose to specialize in a particular area such as architectural, civil or mechanical.

What is the job like?

In most cases, Drafters work in an office environment. Full-time employees work a standard 40 hour week, but they may need to work overtime depending on the time of year and number of current projects. They typically work from 8 am to 5 pm, although there may be opportunities for flexible hours and working from home. The job requires very limited travel, mostly in and around the local area.

What would I do on a typical day?

Your day would involve a combination of working by yourself on a computer, and meeting with one or more members of the design team to discuss the project and answer questions. You may get out of the office to gather information or observe while your project is underway.

How much money will I earn as a Drafter?

Entry-level wages in the Salem area are approximately $12-$18 per hour. Experienced drafters in this area earn $20-$28 per hour. Those who train to become designers or managers can earn much more.

Fast Facts and Information **Education**

What steps should I take while I'm still in high school?

In high school take math at least through Algebra 2, science (especially physics), engineering, CAD, drafting, and writing courses. Ask about earning college credits through College Credit Now courses available at your high school. Students who are 16 or older can also take college classes at Chemeketa.

When can I start the program?

The drafting program is designed for new students to begin each fall. It's possible to begin in winter or spring but not recommended, since most classes are only offered one term a year. Many students choose to take general education classes during the summer before starting the program.

When and where do classes meet?

All classes are offered during the day on the Salem Chemeketa campus. Many general education and some drafting classes are also available at other locations, evenings and online.

Can I attend part-time?

Yes. We recommend that you work with an instructor from the Drafting Department to carefully plan your classes if this is your intent.

How much will it cost?

To earn the 2-year Associates Degree you should budget approximately $8100 for tuition plus $1100 for fees. In addition your books and supplies will be about $2000. Although it is not required, many students choose to purchase a laptop. Almost all software you'll be using will be available for you to take home at no charge. *Taking the same number of credits at a 4-year public college or university in Oregon would cost you more than $40,000 in tuition and fees!*

Is there financial aid?

If you have good grades in high school, look in to the Chemeketa Scholars program. Students who qualify receive free tuition for 2 years! Both Federal and State financial aid are also available. In addition, you can look for grants and scholarships. There is a lot of good information on this website: http://www.chemeketa.edu/started/paying4college.html

What skills would I acquire with this training?

Students who complete the degree will have a good understanding of drafting concepts. You can expect to develop strong CAD skills, especially using AutoCAD. You'll be familiar with the basics of residential and light commercial construction, subdivision design, and surveying and mapping. 3D modeling projects are used to teach you how to design parts that fit together smoothly. You'll also have solid writing and math skills, and be good at working as a team to finish a project.

Are there internships available?

Many students enroll in a Cooperative Work Experience class. They are matched with an employer and can earn credits by on-the-job training, either paid or unpaid.

Will the college help me find a job?

While we cannot guarantee a job, many employers contact Chemeketa first when a drafting job opens up. In a normal job climate at least 75% of graduates find work as drafters within a year of graduation.