

Computer Aided Design Certificate

Engineering Technology

Computer Aided Design Certificate



A Computer Aided Design Certificate prepares the individual to create engineering drawings using CAD software. Typically these individuals will work closely with Mechanical Engineers, sometimes receiving objectives and technical advice from supervisors and/or engineers (both Electrical and Mechanical), displaying both their knowledge of the software and current knowledge of Drafting and Design standards. It is expected by employers that individuals demonstrate excellent verbal, written and interpersonal communication skills.

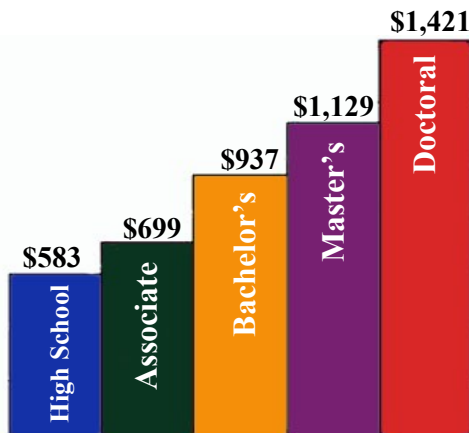
Career Options

Graduates of this program may find employment as an entry-level CAD Operator/Technician or as a Detailer working under the direction of a design engineer. Some of the typical duties of a CAD Operator / Technician will include: compiling and computing a variety of engineering data; developing and preparing schematics from designs made by you and / or others; making preliminary designs from rough specifications and/or verbal directions; generating and revising current engineering prints and three-dimensional patterns for parts and products; designing and modifying equipment used for manufacturing; building a bill of Material for new or revised designs, revising drawings and checking prints for accuracy.

Job opportunities for CAD technicians will remain stable through the next several years, with most of the positions occurring from replacing workers who leave the profession or retire.

Education Pays

Average Weekly Earnings Based on Educational Attainment



Based on data from the Bureau of Labor Statistics



Program Sequence

2011-2013

First Semester

+	CAD111	CAD I	4
+	MET110	Print Reading & Sketching	<u>3</u>
			7

Second Semester

+	CAD112	CAD II	4
+	IND110	Industrial Computing I **	3
	IND103	Applied Geometry & Trigonometry	3
+	IND241	Tooling & Fixtures	<u>3</u>
			13

Third Semester

+	CAD213	CAD III	4
+	IND140	Principles of Machining	3
+	QCT141	Precision Measurement	<u>3</u>
			10

** Prior to taking IND110, students should have basic computer literacy in Windows and at least one Windows application.

+ Students must attain a minimum grade of "C" in all courses with a '+' to progress in the program and to graduate

** Course curriculum is subject to change. Please consult with an Academic Advisor for up-to-date information

Contact Information

For Program Information, Contact:

Dan Burklo, Dean
Engineering Technologies
(419) 267-1273
dburklo@northweststate.edu

For Admissions Information, Contact:

Admissions Office
(419) 267-1320

Northwest State Community College

Dave VonDeylen, Class of 1981

Future Northwest State Students:

I, like many others, attended Northwest State because tuition was affordable and the campus was close to home. While attending Northwest State, my instructors were extremely helpful. They guided me to enroll in courses that appealed to my interests and talents, and really went the extra mile to ensure my success in their programs.

My advisors also were able to help me gain employment through a Co-op program that gave me a chance to get hands-on training outside of the classroom and begin networking with other professionals in the area. Now, many years later, I know the experience I gained and the local contacts I made helped me build my own company, Alex Products, Inc.

Alex Products began in a small, one room shop and, in 22 years, has grown into a large plant with four locations in the five-county area. Not only are we well known for our quality of service, we are also recognized for offering the highest level of career preparation for our employees. As a matter of fact, out of our 1,000 employees, more than 20% have received some level of training from Northwest State Community College.

Whether you decide to major in Engineering, Business, Nursing or any other degree at Northwest State Community College, you are building a foundation to a successful future. Not only will the education you earn at Northwest State prepare you for the workforce, it will give you the confidence to fill a professional role right out of college. The confidence that employers, like me, look for in their employees.

Best of luck in your education as well as your career.

Dave VonDeylen

Numbers to Call

Admissions: (419) 267-1320

Financial Aid: (419) 267-1333

Main Campus: (419) 267-5511

Or Visit Our Web Site at

www.northweststate.edu



The Plastic Engineering Technology program at Northwest State Community College is an incredible program to be involved in. There are great opportunities for jobs in the plastic engineering field after graduation. It is a key component in trying to get your foot in the door at a plastics company.

Another option that the Plastic Engineering Degree offers is transferring to a four year school. I had the opportunity to transfer to Ferris State University to earn a bachelor's degree in plastic engineering. The knowledge I gained at Northwest State made it a very easy transition. If you are interested in a position in plastics, or want to continue your education, Northwest State is a great choice.

- Brian Brown, Class of 2006



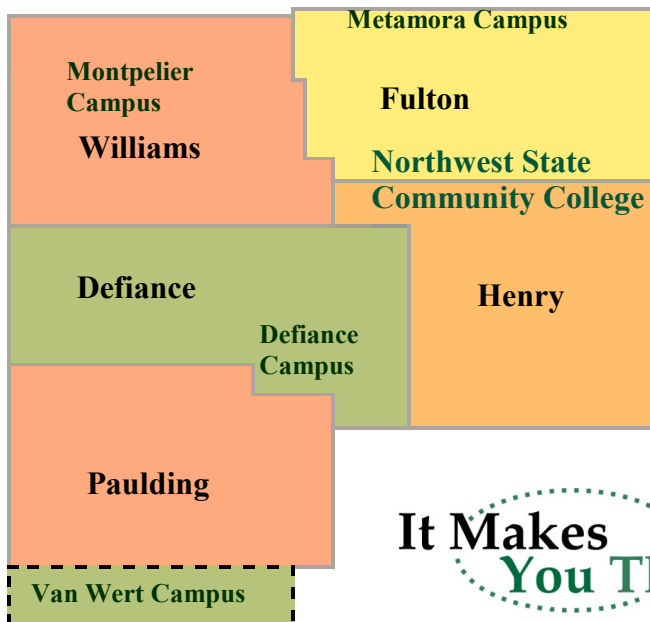
I graduated from Northwest State with an engineering technology degree and the confidence that I was well-prepared to enter the job field. It was that confidence that helped me earn a position at Campbell Soup working as a technology trouble shooter.

Today, I am making more money than I ever could have without a college degree. Northwest State Community College transformed my life.

- Mike Kappen, Class of 2003



Northwest State Service Area



It Makes
You Think!