

Automation & Controls Technology

Engineering Technology

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The market today divides employees in the electrical field in two distinct areas: Industrial Electrical (installation & troubleshooting), and Industrial Automation (design and application).

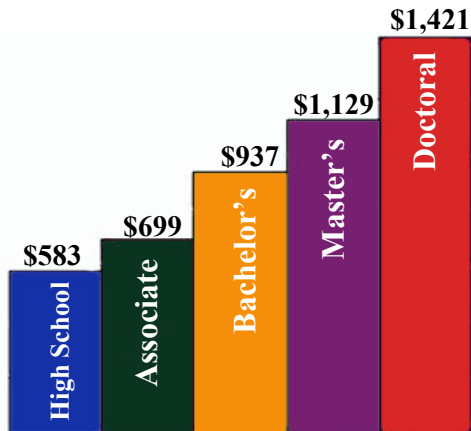
The Industrial Automation program will allow students to apply technology such as Industrial Networking, Programmable Controllers, Instrumentation, Robotics and Automated Controls to solve problems in the manufacturing workplace. We see such a market demand for graduates of this program in the OEM (original equipment manufacturers) and System Integrator market. This is an excellent program for upgrading the skill level of the Engineering and Maintenance personnel in the Industrial Automation field that are currently working in the industry.

Career Options

The career outlook for graduates of the Automation & Controls program is promising. Skilled technicians in the fields of electrical, automation, control, and robotics are in high demand as the nation rebuilds its manufacturing base. This is particularly true in the emerging Alternative Energy industry in Northwest Ohio and across the country. Ambitious, educated technicians with an Automation & Controls Associate degree can provide crucial support of production and testing facilities in a variety of manufacturing environments.

Education Pays

Average Weekly Earnings Based on Educational Attainment



Based on data from the Bureau of Labor Statistics



Program Sequence

2010-2011

First Semester

+ CAD111	CAD I	4
ENG111	Composition I	3
+ IET105	Industrial Computing I**	3
MTH109	College Algebra	3
+ EET171	Industrial Electricity I	3
		16

Second Semester

+ EET240	Engineering Programming	3
ENG112	Composition II	3
MTH112	Trigonometry	3
+ EET194	Industrial Electricity II	3
PHY252	Physics: Electricity & Magnetism	4
	General Studies Elective	3
		19

Third Semester

+ PLC200	Programmable Controller I	3
+ EET272	CISCO Networking I	4
+ EET276	Motors and Motor Control	3
+ EET277	Industrial Electronics	3
	Humanities Elective	3
		16

Fourth Semester

+ PLC210	Programmable Controller II	3
+ PLC230	Servo/Robotic Systems	3
+ EET265	Instrumentation & Controls I	3
	Technical Elective	3
	Social/Behavioral Science Elective	3
	Science Elective	3
		18

** Prior to taking IET105, 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:

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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!

Accredited by the Higher Learning Commission (312) 263-0456 www.ncahigherlearningcommission.org

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