Automation & Controls

Engineering Technologies Division

Automation & Controls

Associate of Applied Science in Instrumentation Technology

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 Outlook

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 degree can provide crucial support of production and testing facilities in a variety of manufacturing environments.

For Program Questions:

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For Admissions Questions:

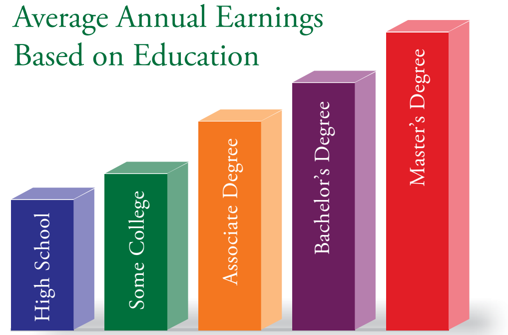
NSCC Admissions Office
(419) 267-1320
admissions@northweststate.edu

Northwest State Community College

www.northweststate.edu

Education Pays

Average Annual Earnings Based on Education



Based on data from the Bureau of Labor Statistics

NSCC is accredited by:
The Higher Learning Commission
(312) 263-0456
www.ncahigherlearningcommission.org

2011-2012

Program Sequence

First Semester		*Credits*
+ CAD111	CAD I	4
ENG111	Composition I	3
MTH109	College Algebra	3
+ IND120	Industrial Electricity I	3
MET100	Introduction to Engineering Technology	2
		15

Second Semester		*Credits*
+ EET240	Engineering Programming	3
ENG112	Composition II	3
MTH112	Trigonometry	3
+ IND121	Industrial Electricity II	3
PHY252	Physics: Electricity & Magnetism	4
	Communications Elective	3
		19

Third Semester		*Credits*
+ PLC200	Programmable Controller I	3
+ EET272	CISCO Networking I	4
+ IND223	Motors and Motor Control	3
+ EET277	Industrial Electronics	3
	Humanities Elective	3
		16

Fourth Semester		*Credits*
+ PLC210	Programmable Controller II	3
+ PLC230	Servo/Robotic Systems	3
+ IND221	Instrumentation & Controls I	3
+	Technical Elective	3
	Social/Behavioral Science Elective	3
	Science Elective	4
		19

Total Program Credit Hours ***69***

+ 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.