

# Maintenance Technician / Mechatronics

## Engineering Technologies Division

### For Program Questions:

Dan Burklo  
Dean of Engineering Technologies  
(419) 267-1394  
dburklo@northweststate.edu

### For Admissions Questions:

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



[www.northweststate.edu](http://www.northweststate.edu)

NSCC is accredited by:  
The Higher Learning Commission  
(312) 263-0456

[www.ncahigherlearningcommission.org](http://www.ncahigherlearningcommission.org)



## Maintenance Technician / Mechatronics

### Associate of Applied Science in Industrial Technology

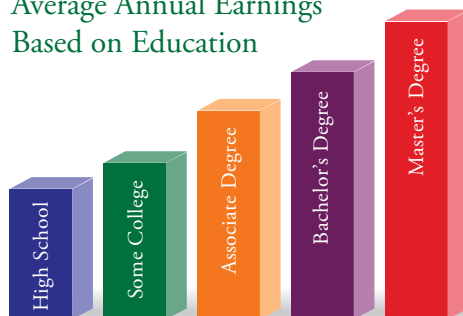
The industrial maintenance technician not only troubleshoots and repairs the most highly advanced industrial equipment, but is responsible for the lay-out and installation. This individual will be versed in electrical, hydraulics, pneumatics, pipefitting, welding, machine repair and installation as well as motor control systems, PLC control systems and instrumentation control networking.

## Career Outlook

Employers trying to stay competitive with an international marketplace are hard pressed to find a multi-crafted maintenance employee who can accomplish a multitude of vocational qualities (electrician, plumber, pipefitter, hydraulics and pneumatics specialists, HVAC-R, machine set-up, machine installer, welder, systems troubleshooter and control systems programming). This program will provide those employers with such a skilled professional.

## Education Pays

Average Annual Earnings  
Based on Education



2011-2012

Based on data from the Bureau of Labor Statistics

# Program Sequence

## First Semester

		<i>Credits</i>
ENG111	Composition I	3
MET100	Introduction to Engineering Technology	2
+ IND120	Industrial Electricity I	3
+ IND140	Principles of Machining	3
MTH109	College Algebra	3
+ IND134	Industrial Fluid Power I	3
		17

## Second Semester

		<i>Credits</i>
ENG112	Composition II	3
+ IND121	Industrial Electricity II	3
+ MET110	Print Reading & Sketching	3
IND103	Applied Geometry & Trigonometry	3
+ IND234	Industrial Fluid Power II	3
	Communications Elective	3
		18

## Third Semester

		<i>Credits</i>
PHY101	Principles of Physical Science	4
+ IND133	Applied Welding Techniques	3
+ IND223	Motors & Motor Controls	3
+ PLC200	Programmable Controller I	3
+ IND131	Industrial Pipefitting	3
	Humanities Elective	3
		19

## Fourth Semester

		<i>Credits</i>
+ IND221	Instrumentation & Controls I	3
CAD111	CAD I	4
+ IND232	Machine Repair	3
+ EET289	Systems Integration	3
	Social/Behavioral Science Elective	3
		16

**Total Program Credit Hours** **70**

+ 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.*

