Northwest State Community College

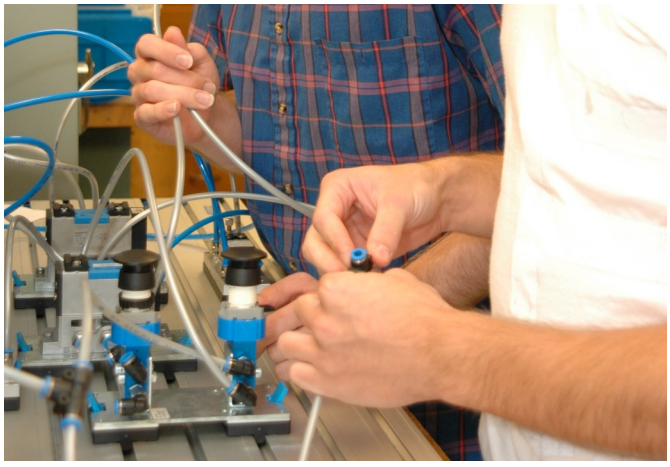
MAINTENANCE TECHNICIAN/ MECHATRONICS

Associate of Applied Science in Maintenance Technician/Mechatronics

The industrial maintenance technician not only troubleshoots and repairs the most highly advanced industrial equipment, but is responsible for the layout 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 multi-crafted maintenance employees who can accomplish a multitude of vocational qualities (electrician, plumber, pipefitter, hydraulics and pneumatics specialists, HVACR, machine set-up, machine installer, welder, systems troubleshooter and control systems programming). This program will provide those employers with such a skilled professional.



STEM and Industrial Technology Division

Franklin Roberts
Dean

Education Pays
Average Annual Earnings
Based on Education

Based on data from the Bureau of Labor Statistics

Questions:
NSCC Admissions Office
(419) 267-1320
admissions@NorthwestState.edu

www.NorthwestState.edu

2022-2023

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

PROGRAM SEQUENCE

Northwest State Community College

First Semester		Credits
+IND120	Industrial Electricity 1	3
+IND132	Benchwork	2
+IND121	Industrial Electricity 2	3
+IND105	Industrial Safety	2
		10

Second Semester		Credits
+WLD110	Intro to Applied Welding Techniques	3
+IND107	Blue Print Reading and Sketching	3
	Humanities Elective	3
+IND134	Fluid Power 1	3
+IND131	Industrial Pipefitting	3
		15

Third Semester		Credits
+PLC200	Programmable Controller 1	3
+MTH109	College Algebra (16 weeks)	3
ENG111	Composition 1	3
+IND223	Motors & Motor Control	3
		12

Fourth Semester		Credits
	Natural Science Elective (with lab)	4
+IND234	Industrial Fluid Power II	3
+IND103	Applied Geometry and Trig	3
+IND221	Instrumentation & Controls 1	3
		13

Fifth Semester		Credits
+IND130	Rigging & Erecting	3
	Social/Behavioral Science Elective	3
+IND232	Machine Repair	3
+PLC230	Servo/Robotic Systems	3
		12

Total Program Credit Hours **62**

+ Refers to technical coursework. Students must attain a minimum grade of “C” in these technical courses 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. Updated 3/8/2022