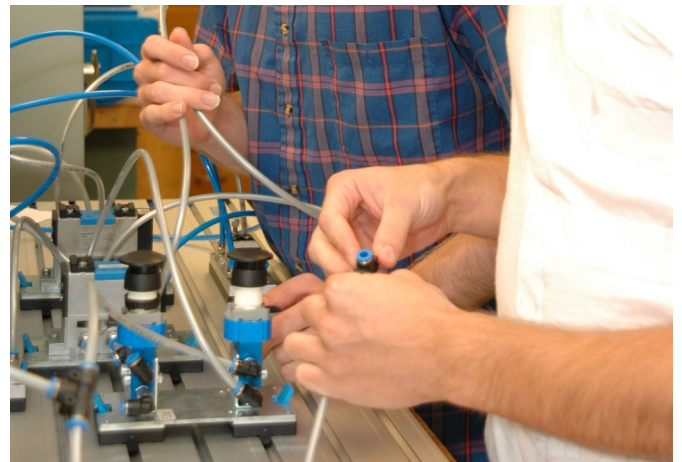


## CNC Operations Short-Term Technical Certificate

The Computer Numerical Control (CNC) Operations program focuses on the operation and setup of production CNC equipment. Students in this program will develop their skills in machining processes, including operation of the drill press, lathe, vertical and horizontal milling machine, surface grinder, CNC vertical machining center and turning center. Students learn the basics of transforming raw materials into finished parts in a production environment.

## Career Outlook

Contact with several regional machine shops has indicated a strong desire to bring jobs back which had been outsourced. Additionally, area industries have both expressed need for and provided input on training content making up the CNC Operations certificate program.



## STEM and Industrial Technology Division



Franklin Roberts  
Dean

### Questions:

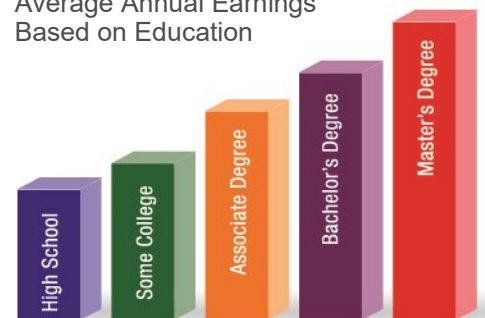
NSCC Admissions Office  
(419) 267-1320  
admissions@NorthwestState.edu

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

2019-2020

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

# PROGRAM SEQUENCE

<b>First Semester</b>		<b>Credits</b>
+ IND103	Applied Geometry & Trig	3
+ IND132	Benchwork	2
+ IND107	Print Reading and Sketching	3
+ IND140	Principles of Machining	3
+ IND240	Machining Processes II	3
<hr/>		14

<b>Second Semester</b>		<b>Credits</b>
+ IND241	Tooling & Fixtures	3
+ IND100	Precision Management	3
+ MET222	Programming of CNC	3
+ WLD110	Intro to Applied Welding Tech	3
<hr/>		12

**Total Program Credit Hours** **26**

+ Refers to technical coursework. Students must attain a minimum grade of "C" in these technical courses to progress in the program and to graduate.

*Gainful employment information for NSCC's certificate programs can be found online at:*

*<https://northweststate.edu/gedt/cnc-operations/>*

*Gainful employment information includes: estimated cost of the program, average student loan debt and types of jobs available.*