

# Plastics Machine Maintenance



## Engineering Technologies Division

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

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

## Plastics Machine Maintenance

### Associate of Technical Studies

Polymers (plastics) and rubber is the number one industry in Ohio. This industry requires sophisticated production machinery. Maintenance technicians are required to keep this type of machinery running. This program combines basic plastics courses as well as courses from the industrial maintenance programs.

The Associate of Technical Studies (ATS) degree is a recognized degree through the Ohio Board of Regents. The ATS is a customizable degree that is made up of two technical content areas, primarily for students that have educational goals that do not match traditional programs offered at NSCC. This degree is designed for a student who wishes to enter the field of plastics maintenance.

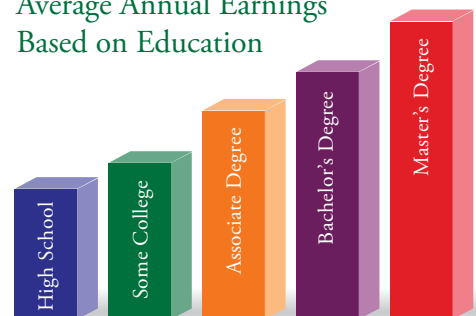
The degree consists of three different types of courses: General Courses (15 hrs.), Basic Courses (15 hrs.) and Technical Courses (30-43 hrs.). The General Studies core of classes is required of all graduates of NSCC. The Basic Courses are courses that basically prepare students for the technical courses. The Technical Courses are made up of two types of classes: plastics and industrial electrical.

If students wish to transfer on to a university for a bachelor's degree, they must have each course evaluated individually by the university.

This is an excellent program for employees who are currently working in the maintenance department of a plastic company, or an employee of a plastic company wishing to get into the maintenance department.

## Education Pays

Average Annual Earnings  
Based on Education



2011-2012

Based on data from the Bureau of Labor Statistics

# Program Sequence

## First Semester

		Credits
ENG111	Composition I	3
+ MET100	Introduction to Engineering Technology	2
IND103	Applied Geometry & Trigonometry	3
+ PET110	Principles of Plastics	4
+ IND120	Industrial Electricity I	3
	Social/Behavioral Science Elective	3
		18

## Second Semester

		Credits
ENG112	Composition II	3
MTH109	College Algebra	3
+ PET210	Injection Molding	4
+ IND121	Industrial Electricity II	3
+ IND122	Industrial Wiring (NEC)	3
	Humanities Elective	3
		19

## Third Semester

		Credits
+ IND134	Industrial Fluid Power I	3
PHY251	Physics: Mechanics & Heat	4
+ PLC200	Programmable Controller I	3
+ IND223	Motors & Motor Controls	3
+	Technical Elective	3
		16

## Fourth Semester

		Credits
+ PLC210	Programmable Controller II	3
+ IND221	Instrumentation & Controls I	3
+ IND220	Electrical Prints & Troubleshooting	3
+ PET220	Advanced Injection Molding	4
	Communications Elective	3
		16

## 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.*

