

# ASSOCIATE DEGREE IN CNC MACHINING



Paul Vella, CNC graduate

## TRAIN TO BECOME A CNC MACHINIST

With changing trends in today's Manufacturing Workforce, a new breed of professionals is needed to step up and lead the way. Goodwin College's associate degree in CNC Machining is designed to put you on track for a rewarding career in this in-demand field.

This program integrates an understanding of the manufacturing processes, knowledge of materials, and a working comprehension of manufacturing mathematics. You'll also gain competence in technical drawings, specifications, and computer-aided machining.

Combined classroom instruction and hands-on operation of our new CNC 3-axis milling and turning machines will provide you with the knowledge and machining experience you'll need to be successful in the industry. In this program, you will also gain an in-depth understanding of advanced Mastercam skills needed for programming tool location, motion, and feeds and speeds.

When you successfully complete this AS in CNC Machining program, you will be prepared to pursue a National Institute for Metalworking Skills (NIMS) credential as a CNC Operator.

If you choose to continue your education further, the credits you earn in this program can be applied toward a bachelor's degree in Manufacturing Management at Goodwin College.

Manufacturing is at the forefront of today's most viable options for employment. Goodwin College is ready to help you take the first step toward your new career as a CNC Machinist.

# CURRICULUM

General Education Requirements - 24-25 credits		
ENG 101	English Composition	3
ENG 1XX	Writing Competency <small>(WR)</small>	3
COM 1XX	Communications Competency <small>(COM)</small>	3
CAP 1XX	Computer Literacy Competency <small>(CL)</small>	3
MATH 130	Mathematics for Science and Technology <b>OR</b>	
MATH 135	Contemporary Mathematics	3
	Science Competency <small>(SCI)</small>	3-4
PSY 112	Introduction to Psychology <small>(SS)</small>	3
	Cultural Competency <small>(CU or E/P)</small>	3

Non-Major Core Requirements - 3 credits		
IDA 120	Intellectual Discovery Strategies <b>OR</b> Open Elective	3

Major Core Requirements - 33 credits		
<b>Freshman Year</b>		
BMM 101	Key Principles of Manufacturing	3
BMM 110	Technology in Advanced Manufacturing	3
OS 101	Team Dynamics and Individual Skills	3
BMM 222	Technical Drawings and Specifications	3
BMM 140	Principles in Manufacturing Mathematics	3
BMM 175	CNC Machining	3
<b>Sophomore Year</b>		
BMM 220	Materials and Processes in Manufacturing	3
BMM 275	CNC Machining II	3
BMM 240	CAM I	3
BMM 276	CNC Machining Applications	3
BMM 241	CAM II	3

**Total Credits: 60-61**

To view course descriptions visit:  
[www.goodwin.edu/academics/course-descriptions](http://www.goodwin.edu/academics/course-descriptions)

## SPECIFIC CAREERS AND PROFESSIONS AVAILABLE TO THE GRADUATES OF THIS PROGRAM:

- ▶ CNC Machine Programming
- ▶ CNC Machine Set-up
- ▶ CNC Machinist (Lathe and Mill)
- ▶ CNC Operator (Lathe and Mill)
- ▶ Manual Machine Operator

## TO REQUEST MORE INFORMATION, CONTACT:

Admissions  
 (800) 889-3282  
[www.goodwin.edu/contactus](http://www.goodwin.edu/contactus)

Leonard Walsh, Ph.D.  
 Program Director, CNC Machining