GATEWAY TECHNICAL COLLEGE **Effective 2013/2014**	**Career Cluster ►** Manufacturing	**Career Pathway ►** Production	**CNC PRODUCTION TECHNICIAN** **(31-444-2)** *Technical Diploma* **Most Courses Offered at Racine Campus**

Δ Suggested Sequence	√	Course Number		Course Title	Requisites	Credits	Hrs/Wk Lec - Lab
Semester 1		420-342	*	CNC Intro/Support Equip Basic	Coreq: 420-345; 623-147	1	0-2
		420-344	*	CNC Offsets and Operations	Coreq: 420-345	1	2-0
		420-345	*	Gauging / Inspection	Coreq: 421-376; 804-370	2	2-2
		421-376	*	Blueprint Reading		2	2-2
		444-331	*	CNC Machining Technology	Coreq: 420-342	3	3-3
		444-332	*	CNC Production Applications	Prereq: 420-342 Coreq: 420-344; 444-331	2	2-2
		623-147	*	Manufacturing Shop Safety		1	1-0
		623-183	*	Statistical Process Control/CT		1	1-0
		801-302		Speaking Principles		1	2-0
		804-370		Mathematics I, Applied	Prereq: 854-760 (See Note 1)	2	4-0
Semester 2		421-316	*	Blueprint Reading, Advanced	Prereq: 421-376	2	2-2
		444-333	*	Fund. of CNC Turning Applications	Prereq: 444-331 Coreq: 421-316; 804-371	3	2-4
		444-334	*	Fund. Of CNC Milling Applications	Prereq: 444-331 Coreq: 421-316; 804-371	3	2-4
		444-335	*	CNC Lathe Set-Up	Coreq: 444-333	3	2-4
		444-336	*	CNC Mill Set-Up	Coreq: 444-334	3	2-4
		801-301		Writing Principles	Prereq: 851-760 (See Note 1)	1	2-0
		804-371		Mathematics II, Applied	Prereq: 804-370	1	2-0

Program Total Required ***32***

Δ *Courses may be taken out of suggested sequence as long as requisites have been met.*

Federal regulations require disclosure of the following information for this program:

Books and Supplies	Resident Tuition and Fees	U.S. Department of Labor Standard Occupational (SOC) Code & Occupational Profile – available at http://www.onetonline.org
$315	$4,670	Numerical Tool & Process Control Programmer (51-4012) & CNC Machine Tool Operators (51-4011)

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	Manufacturing	Production	

PROGRAM DESCRIPTION

CNC Production Technician is a well rounded approach to becoming a CNC Technician. We teach the skills necessary for students to become qualified set-up technicians. Students are taught the basics of G-Code programming, proper M-Code usage, and the required steps to efficiently set fixture and tool offsets. Students create their own CNC programs and DNC to the proper machine tool. An excellent overall knowledge of CNC Controls is achieved by working on several different brand name controls. Overall, students will be proficient at programming, set-up, operation, editing, and part inspection.

PROGRAM LEARNING OUTCOMES

Graduates of the CNC Production Technician Technical Diploma Program should be able to:

1. Develop an inspection plan and inspect simple parts using precision tools and techniques. Prepare reports on the compliance of the parts.
2. Keep the duty station clean and safe for work. Keep the tools, workbenches, and manual equipment clean, maintained, and safe for work.
3. Interpret blueprints to determine part details and specifications.
4. Set up and operate a CNC milling center.
5. Set up and operate turning centers.
6. Determine common programming codes and program format.

CORE ABILITIES

Gateway believes students need both technical knowledge and skills and core abilities in order to succeed in a career and in life. The following nine core abilities are the general attitudes and skills promoted and assessed by all Gateway programs. All Gateway graduates should be able to:

1. Act responsibly
2. Communicate clearly and effectively
3. Demonstrate essential comp. skills
4. Demonstrate essential math skills
5. Develop job seeking skills
6. Respect themselves and others as a member of a diverse community
7. Think critically and creatively
8. Work cooperatively
9. Value learning

ADMISSION REQUIREMENTS

1. Students must submit an application & $30 fee.
2. Students must complete reading, writing, math, and computer skills placement assessments.
3. Students must submit official high school, GED, or HSED transcript.

GRADUATION REQUIREMENTS

1. 32 Credits with an average of 2.0 or above.
2. *Average of 2.0 ("C") or above for these major courses.

For a complete list of Graduation Requirements check the Student Handbook.

NOTES

1. A satisfactory placement test score (or successful remediation) is required prior to enrollment. See an advisor for details.
2. Safety glasses (marked Z-87) are required in labs. If prescription glasses are needed, allow a minimum of 90 days.
3. A hand calculator capable of trigonometric functions is required for 804-370; the cost is approximately $25.
5. Any course may be taken prior to entry in the program, assuming prerequisites and corequisites have been satisfied (or waived with department approval).

OTHER INFORMATION

Gateway Technical College reserves the right to modify curriculum requirements for students who interrupt enrollment for a period of two years or take over seven years to complete. Tuition and material fees are determined by the board of the Wisconsin Technical College System. Consult the Master Class Schedule for exact fee amounts. Occasionally, the District may offer a particular course out of published sequence. By doing so, the District does not obligate itself to offer succeeding courses out of published sequence.

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You may call Student Services at 1-800-247-7122 for additional information.
For a complete list of course descriptions (and possible online courses) for this program, please consult Web Advisor on our web page at www.gtc.edu.

My advisor is _____. My advisor's contact information is _____.