



Tool and Die Technician (31-439-1)
 Technical Diploma
Effective 2019/2020



The course sequence shown on this sheet is the recommended path to completion of the program and reflects how courses are regularly scheduled. Courses will be scheduled in the terms indicated here. Courses may be taken out of sequence as long as requisites are met.

✓	Course Number		Course Title	Requisites	Notes	Credits	Terms Offered
	444-331		* CNC Machining Technology			3	FA, SP, SU
	444-337		* Fund. Of Blueprint and Shop Safety			3	FA, SP, SU
	444-338		* Fund. Of CNC Machine Application	Coreq: 444-337		4	FA, SP, SU
	444-339		* Gauging and Quality Control		2	3	FA, SP, SU
	801-302		* Speaking Principles			1	SP
	804-370		Mathematics, I Applied	Prereq: 854-760	1	2	FA, SP
	420-328		* Heat Treating Processes			2	FA, SP
	420-330		* Machine Tool I			4	FA, SP
	420-332		* Machine Tool II	Coreq: 420-330; 804-370		4	FA, SP
	439-301		* Tool Room Application Theory			1	FA, SP
	439-300		* Basic CAD/Basic Tool Room CAM	Coreq: 804-370		2	FA, SP
	442-102		* Intro to Welding			2	FA, SP, SU
	804-371		Mathematics II, Applied	Prereq: 804-370	1	1	FA, SP
Minimum Program Total Credits Required						32	

= Milestone Course. Faculty have identified this course as providing a strong foundation for your success throughout the program. Courses should be taken in the order shown to help you stay on track and graduate on time.

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
\$2,183	\$5,952	Tool and Die Makers (51-4111)

Tool and Die Technician (31-439-1)

The *Tool and Die Technician* program prepares students for entry into the metal working industry. Instruction is offered on basic machine tools as well as machines such as the electrical discharge machine, along with jigs, fixtures, gauges, and machinist hand tools. Related training includes blueprint reading, mathematics, precision inspection, and the use of the latest tooling available. This area of study prepares students to enter the field by developing quality skills in precision machining and enables learning of the specific abilities used to create precise machine parts and components. The tool and die work environment centers around the machine shop, tool rooms, and working on factory floors.

Program Learning Outcomes

Graduates will be able to:

1. Apply basic safety practices in the machine shop.
2. Interpret industrial/engineering drawings.
3. Apply precision measuring methods to part inspection.
4. Perform basic machine tool equipment set-up and operation.
5. Perform programming, set-up and operation of CNC machine tools.

Core Abilities

Gateway's nine core abilities are the general attitudes and skills promoted and assessed by all programs. All Gateway graduates will be able to:

1. Act responsibly.
2. Communicate clearly and effectively.
3. Demonstrate essential computer skills.
4. Demonstrate essential mathematical skills.
5. Develop job seeking skills.
6. Respect themselves and others as members 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, and math skills placement assessments.
3. Students must submit official high school, GED, or HSED transcript.

Graduation Requirements

1. Minimum 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.

Program Offerings

	Location(s)	Starting Term(s)
Days	Elkhorn	FA, SP
Evenings	iMET	FA, SP

Notes

1. A satisfactory placement test score (or successful remediation) is required prior to enrollment. See an advisor for details.
2. A credit for prior learning assessment is available for this course. For more information, please contact cfpl@gtc.edu.

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 Web Advisor 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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