

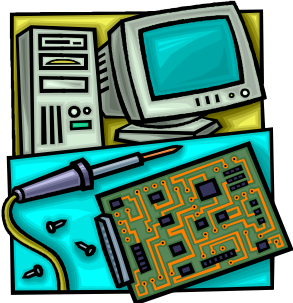


The Manufacturing & Machine Technology program focuses heavily on hands-on experiences using industrial tools and advanced computer numerically controlled (CNC) equipment. Students will work towards specific certifications from the National Institute of Metalworking Skills (NIMS). Students will prepare for careers as a machinist, production operator, quality control technician in the computer enhanced manufacturing industry.

Qualified students can earn up to 17 college credits through the Community College of Baltimore County.

## Major Units of Study

- Bench Work
- Blueprints
- Drill Press Operations
- Grinding Operations
- Hand Tools
- Heat Treatment Operations
- Lathe Operations
- Milling Machine Operations
- Precision Measuring Tools
- Program and Operate CNC Equipment
- Sawing Operations
- Technical Math

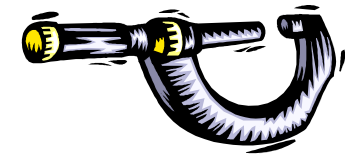


## Related Careers

- CNC Operator
- Cutter/Grinder
- Lathe Specialist
- Machinist/Machine Operator
- Mill Specialist
- Quality Control Inspector
- Tool and Die Maker

## Post-Secondary

- Articulation with Community College of Baltimore County (17 college credits for qualified students)
- Colleges
- Military Services
- Trade & Technical Schools
- Apprenticeships



Visit the Carroll County Career and Technology Center website:  
<http://www.carrollk12.org/ctc/>

**COMPLETER: Machine Technology** Guideline for Course Selections

**CREDITS: 6**

Refer to Graduation requirements in the Program of Studies for specific course requirements in each content area.

		9	10	11	12
<b>Requirements</b>	<i>Exact scheduling depends on student's plan and school's master schedule</i>	English (1)	English (1)	English (1)	English (1)
		Social Studies (1)	Social Studies (1)	Social Studies (1)	
		Science (1)	Science (1)	Science (1)	
		Mathematics (1)	Mathematics (1)	Mathematics (1)	
		PE (.5) / Health (.5)		PE (.5) / Financial Literacy (.5)	
	<i>May be taken any year</i>	Fine Arts (1)	Technology Ed (1)		
	<i>Recommended</i>	Freshman Seminar (.5)			
<b>Completer Program Requirements</b>				Machine Technology I (3)	Machine Technology II (3)
<b>Career Specific Electives</b> <i>(may be taken any year offered after prerequisites have been satisfied)</i>		Foreign Language (2) Manufacturing & Construction Technologies (1) Math Elective beyond Algebra II (.5-1) Business Communications & Keyboarding (1) Honors Calculus, AP Calculus A-B, Adv. AP Calculus B-C (1) Chemistry 2 (1) Issues in American Society (.5) Public Speaking (.5) Technical Drawing & CADD (1) Trigonometry, Honors Trigonometry (.5-1) Work Based Learning Experience (.5-1) Technological Issues & Impacts (1)			
<i>8 credits possible per year</i>					
<b>Value Added:</b>		17 Articulated credits			
<b>From:</b>		Community College of Baltimore County, Catonsville			
<b>Program:</b>		Computer Automated Manufacturing and Industrial Technology			

**ADA STATEMENT**

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