

**MACHINE SHOP TECHNOLOGY**  
 Two-year Certificate Program  
 Catalog 2010-2011

The Machine Shop Technology Program is designed to prepare students for positions in industries which utilize metal-cutting machine tools. Machinists produce metal parts used in machinery of all types, sizes and shapes. Major course areas include machine shop safety, measuring instruments, blueprint reading, shop math, and operation of general machine tools including drill presses, saws, lathes, milling machines, grinders. Upon completion of the program, the student will be qualified as an entry-level machinist, maintenance machinist, or apprentice machine trades trainee.

**Note:** This program requires that the student purchase his/her own tools. To obtain a list of the required tools, contact the program instructor, 566-3338/3353. A student must earn a grade of "C" or higher in all courses in order to receive a certificate.

Recommended course sequencing for first time students.

				<b>Credit Hours</b>	<b>Grade</b>
<b>1st Semester</b>					
___	MASH	115	Machine Shop Blueprint Reading	3	_____
___	MASH	116	Basic Machine Shop	4	_____
___	MASH	117	Machinist Measurements	3	_____
___	MASH	118	Basic Lathe Operations	4	_____
___	MASH	119	Single Point Threading	3	_____
___	MATH	113	Math for Technical Careers	<u>3</u>	_____
			Total	20	
<b>2<sup>nd</sup> Semester</b>					
___	DRFT	111	Drafting for Industry	3	_____
___	MASH	122	Basic Milling Operations	4	_____
___	MASH	123	Machining Calculations	3	_____
___	MASH	124	Precision Surface Grinding	4	_____
___	MASH	129	Tool Grinding	<u>3</u>	_____
			Total	17	
<b>3<sup>rd</sup> Semester</b>					
___	MASH	206	Advanced Lathe Operations	4	_____
___	MASH	207	Specialized Machining Operations	3	_____
___	MASH	208	Advanced Milling Operations	4	_____
___	MASH	209	Machine Shop Maintenance	3	_____
___	WELD	111	Basic Welding (offered Fall only)	<u>2</u>	_____
			Total	16	
<b>4<sup>th</sup> Semester</b>					
___	MASH	212	Advanced Machining Techniques	4	_____
___	MASH	213	Basic CNC Machining	3	_____
___	MASH	216	Advanced Single Point Threading	4	_____
___	MASH	217	CAD-CAM Machining	<u>3</u>	_____
			Total	14	

Total credit hours required for this certificate is 67