

**MACHINE SHOP TECHNOLOGY**  
Associate of Applied Science Degree  
Catalog 2009-2010

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. A student must earn a grade of "C" or higher in all courses in order to receive a degree or certificate. For tool list contact 566-3338.

**Recommended course sequencing for first time students.**

				<b>Credit</b>	
				<b>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	Applied Mathematics for Vocational Students	<u>3</u>	_____
				Total	20
<b>2nd Semester</b>					
_____	DRFT	111	Drafting for Industry (offered in the spring only)	3	_____
_____	ENGL	118	Technical Composition	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	20
<b>3rd Semester</b>					
_____	ENGL	218	Advanced Technical Composition	3	_____
_____	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 in the Fall only)	<u>2</u>	_____
				Total	19
<b>4th 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	3	_____
_____	SPCH	110	Public Speaking <b>OR</b>		_____
_____	SPCH	111	Interpersonal Communication	3	_____
_____	_____	_____	Humanities/Social Science Elective*	<u>3</u>	_____
				Total	20

Total credit hours required for this degree 79

\* See page 45, Humanities and Social Science Electives, 2009-2010 San Juan College catalog.