

MACHINE TECHNOLOGY

Successful completion of this program prepares the graduate for entry into the machinist trade and positions in industry requiring technical skill and understanding of precision metalworking.

Most courses applying to a degree or certificate have basic language/math requirements and/or course prerequisites. See a counselor, the class schedule, or the college catalog for prerequisites.

CAREERS IN:

- Mechanic Shop Deburr/Detail Person
- Manual Machinist
- CNC Operator
- CNC Setup Operator/Programmer
- CNC Programmer
- Tool and Die Machinist
- QA/QC Inspector
- Expeditor

FOR ADDITIONAL INFORMATION SEE YOUR COUNSELOR, VISIT THE CAREER/TRANSFER CENTER, OR CONTACT:

Applied Science Division
San Jose City College

408/288-3781
www.sjcc.edu

A grade of "C" or better is required in all major, certificate and major elective courses. If the following classes are part of your certificate or degree they must be taken at San Jose City College: MACH 151B, 151C, and 110.

<u>CERTIFICATE OF ACHIEVEMENT LEVEL 2: CNC MACHINE</u>			<u>UNITS</u>
<u>(Day Accelerated Program):</u>			
MACH	120	Basic CNC Machining Center	4.5
MACH	123	CNC Turning Center	4.5
MACH	126	Advanced CNC Machining Center	4.5
MACH	129	CNC Operator Fundamentals	<u>4.5</u>
OR			18

<u>CERTIFICATE OF ACHIEVEMENT LEVEL 2: ENTRY LEVEL MACHINIST</u>			
MACH	100	Shop Math and Blueprint Reading	4
MACH	101	Introduction to Machine Technology	3
MACH	151A	Advanced Lathe Practices	4
MACH	151B	Advanced Milling Machine Practices	4
APPROVED MAJOR ELECTIVES			<u>3</u>
			18

<u>CERTIFICATE OF ACHIEVEMENT LEVEL 3: CNC, CAD/CAM MACHINIST</u>			
COMPLETION OF CERTIFICATE OF ACHIEVEMENT LEVEL 2 - CNC OPERATOR			
OR ENTRY LEVEL MACHINIST			18
MACH	110	Precision Measurement	3
MACH	151C	Applied Problems in Shop Practices	4
MACH	153A	Operator/Programmer I	5
MACH	153B	Operator/Programmer II	5
APPROVED MAJOR ELECTIVES			<u>1</u>
			36

APPROVED MAJOR ELECTIVES - Choose from the following:			
CIS	041	Introduction to Computer Information Systems	3
MACH	098	Directed Studies	1-8
MACH	109	Introduction to Coordinate Measurement Machine	2
MACH	138	Occupational Work Experience	3-4
MACH	154	Introductory CAD/CAM Operations for Machinists & Operators	2
MACH	155	Introduction to CNC 4 th Axis	2
MACH	156	CNC Lathe I	5
MACH	157	CNC Lathe II	5
MACH	158	Advanced CAD/CAM Operations for Machinists & Operators	2
MACH	159	Introduction to CNC Programming Macros	2
MACH	160	Introduction to CNC Laser Applications	4
MACH	165	Mill Setups I	1.5
MACH	359	Beginning Fundamentals of Machine Technology	0.5

CNC Machinist Associate of Science Degree
MAJOR REQUIREMENTS

			<u>UNITS</u>
<u>DAY PROGRAM</u>			
MACH	110	Precision Measurement	3
MACH	120	Basic CNC Machining Center	4.5
MACH	123	CNC Turning Center	4.5
MACH	126	Advanced CNC Machining Center	4.5
MACH	129	CNC Operator Fundamentals	4.5
MACH	151C	Applied Problems in Shop Practices	4
MACH	153A	Operator/Programmer I	5
MACH	153B	Operator/Programmer II	5
APPROVED MAJOR ELECTIVE			<u>1</u>
			36
OR			
<u>EVENING PROGRAM</u>			
MACH	100	Shop Math and Blueprint Reading	4
MACH	101	Introduction to Machine Technology	3
MACH	110	Precision Measurement	3
MACH	151A	Advanced Lathe Practices	4
MACH	151B	Advanced Milling Machine Practices	4
MACH	151C	Applied Problems in Shop Practices	4
MACH	153A	Operator/Programmer I	5
MACH	153B	Operator/Programmer II	5
APPROVED MAJOR ELECTIVES			<u>4</u>
			36
<u>DEGREE REQUIREMENTS:</u>			
MAJOR			36
PHYSICAL ACTIVITY			1
GENERAL EDUCATION PATTERN/GRADUATION REQUIREMENTS			<u>24</u>
TOTAL			61
APPROVED MAJOR ELECTIVES - Choose from the following:			
CIS	041	Introduction to Computer Information Systems	3
MACH	098	Directed Studies	1-8
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