

MACHINE TECHNOLOGY

Machine Technology Associate of Science Degree

To graduate with a specialization in one of the Machine Technology majors, students must complete all the requirements for the appropriate certificate with a grade of C or better plus the general breadth requirements for the Associate Degree (minimum total = 60 units).

Machine Technology Certificates

Students working for certificates must have a basic knowledge of arithmetic, reading, and writing in order to learn and work in the occupations they select.

There are four Machine Technology Certificates: (1) Computer Numerical Control: CAD/CAM, (2) Machine Technology, (3) Machinist Standard, and (4) Tool and Die. Each of these certificates requires the core courses plus specialized courses.

REQUIRED CORE COURSES:	UNITS
MACH 120A Machine Shop Theory	2
MACH 021A Machine Shop I	4
MACH 022A Machine Shop II	4
MACH 023A Machine Shop III	4
MACH 024A Machine Shop IV	4
MACH 090A Engineering Blueprint Reading, Geometric Dimensioning and Tolerancing	3
TECALC 137 Technical Calculations	4
TOTAL UNITS for the Core Requirements	25

1. Computer Numerical Control: CAD/CAM

REQUIRED COURSES:	UNITS
<u>Machine Technology Core Requirements</u>	<u>25</u>
MACH 070A Computer Numerical Control Machining I	3
MACH 071A Computer Numerical Control Machining II	3
MACH 072A Computer Aided Design/Computer Aided Manufacturing I	3
MACH 073A Computer Aided Design/Computer Aided Manufacturing II	3
MACH 074A Set-up and Operation of Various Machine Controls	3
MACH 129A Manufacturing Processes	3
<u>Total Units for the Computer Numerical Control: CAD/CAM specialized courses</u>	<u>18</u>

TOTAL UNITS required for the Computer Numerical Control: CAD/CAM Certificate 43

2. Machine Technology

REQUIRED COURSES:	UNITS
<u>Machine Technology Core Requirements</u>	<u>25</u>
TOTAL UNITS required for the Machine Technology Certificate	25

3. Machinist Standard

REQUIRED COURSES:	UNITS
<u>Machine Technology Core Requirements</u>	25
MACH 070A Computer Numerical Control Machining I	3
MACH 129A Manufacturing Processes	3
<u>Total Units for the Machinist Standard specialized courses</u>	6
TOTAL UNITS required for the Machinist Standard Certificate	31

4. Tool and Die

REQUIRED COURSES:	UNITS
<u>Machine Technology Core Requirements</u>	25
MACH 060A Tool and Die	4
MACH 061A Jig and Fixture Making	4
MACH 062x3 Introduction to Mold Making	3
MACH 129A Manufacturing Processes	3
<u>Total Units for the Tool and Die specialized courses</u>	14
TOTAL UNITS required for the Tool and Die Certificate	39