

Advanced Technical Certificate: Machining Technology

(2 Years)

The following required courses must be completed with a 2.0 GPA:

Code	Title	Credits
Required Courses:		
MACH 0110	Machine Tool Lab I	3
MACH 0111	Machine Tool Theory I	2
MACH 0112	Machine Math I	3
MACH 0115	Applied Machining Geometry	2
MACH 0120	Machine Tool Lab II	3
MACH 0121	Machine Tool Theory II	2
MACH 0123	Blueprint Reading	1
MACH 0131	CNC Mill Setup	2
MACH 0135	Applied Machining Trigonometry	2
MACH 0141	CNC Lathe Setup	2
MACH 0145	Geometric Dimensioning and Tolerancing I	1
MACH 0220	CAD and CAM Applications I	3
MACH 0221	CAD and CAM Theory I	3
MACH 0225	Interpreting Technical Data	1
MACH 0245	Geometric Dimensioning and Tolerancing II	1
MACH 0261	CNC Introduction to Theory	2
MACH 0265	Introduction to CNC Machine Practice	4
MACH 0270	CNC Machining Practice I	4
MACH 0271	CNC Programming Theory I	2
MACH 0272	CNC Math I	3
MACH 0275	CAD and CAM Theory II	2
MACH 0280	CAD and CAM Applications II	4
MACH 0281	CNC Programming Theory II	1
MACH 0285	CAD and CAM Theory III	2
MACH 0290	CNC Machining Practice II	3
MACH 0291	CAD and CAM Applications III	4
TGE 0158	Employment Strategies	2
COMM 1101	Fundamentals of Oral Communication ¹	3
ENGL 1101	Writing and Rhetoric I ¹	3
or ENGL 1101P	Writing and Rhetoric I Plus	
Total Credits		70

¹ Contributes to a General Education requirement.