

Machinist

Program Description:

Machinists produce precision parts, tools, and instruments utilizing both manual and computerized machining systems. For over sixty years, the machinist program has prepared students for apprentice positions through local apprenticeship agencies. The instruction contains extensive hands-on experience in the use of traditional precision tooling and machining equipment, as well as sophisticated, state-of-the-art technology including CNC lathes, CNC milling machines, and program-specific software. The program also provides extended learning opportunities for persons previously or currently employed in related professions.

Machinist AAS (99 credits) was 97 credits

Required Courses

CNCM127	Blueprint Reading & GD&T	5
MACH150	Measurement, Materials, & Safety	5
MACH155	Job Planning, Bench-work, and Layout	5
MACH160	Conventional Machining	5
MACH120	Machine Shop Mathematics II (RI)	5
MACH166	Conventional Turning	3
MACH167	Conventional Milling	3
MACH168	Surface Grinding	3
CNCM113	CNC Programming	4
CNCM126	CNC Mill & Lathe Operations & Set-Up	5
MACH117	Measurement Applications	5
CNCM114	CNC Troubleshooting	3
CNCM203	CNC Mill II	5
CNCM211	CNC Lathe II	5
CNCM215	Computer-Aided Manufacturing CAM I	5
CNCM218	CMM Programming	3 should be 5 credits

2020-2021 Addendum

MACH224 Computer-Aided Manufacturing CAM II 5

MACH232 Advanced CNC Machining 5

MACH142 Advanced Machine Shop Applications 8

or

WBAS101 Welding Basics 8

Electives

MACH292 Independent Projects

MACH293 Independent Projects

MACH294 Independent Projects

General Education Requirements

Communications

5 credits required

ENGL175

ENGL&101 ENGLISH COMPOSITION I

Humanities/Social Sciences/Natural Sciences/Other 5 credits required

BIOL&160 GENERAL BIOLOGY

BIOL&175 HUMAN BIOLOGY WITH LAB

BIOL&241 ANATOMY & PHYSIOLOGY I

BIOL&242 HUMAN A&P II

BIOL&260 MICROBIOLOGY

CHEM&121 INTRODUCTION CHEMISTRY

CHEM&131 INTRODUCTION TO ORGANIC/BIOCHEMISTRY

CMST&102 INTRO TO MASS MEDIA

CMST&152 INTERCULTURAL COMMUNICATION

CMST&210 INTERPERSONAL COMMUNICATION

CMST&220 PUBLIC SPEAKING

ECON&201 MICROECONOMICS

NUTR&101 INTRO TO NUTRITION

POLS&101 INTRO TO POLITICAL SCIENCE

PSYC&100 GENERAL PSYCHOLOGY

2020-2021 Addendum

PSYC&200 LIFESPAN PSYCHOLOGY

SOC&101 INTRO TO SOCIOLOGY

Note: See a Career Advisor prior to choosing courses that meet general education requirements.

CNC Operator-Certificate of Training (14 credits)

Required Courses

MACH117	Measurement Applications	5
CNCM113	CNC Programming	5
CNCM126	CNC Mill & Lathe Operations & Set-Up	5

Toolmaking Technology-Certificate of Training (15 credits)

Required Courses

MACH150	Measurement, Materials, & Safety	5
MACH155	Job Planning, Bench-work, and Layout	5
MACH160	Conventional Machining	5