



LAKES
REGION
COMMUNITY
COLLEGE

ADVANCED MANUFACTURING

Why Advanced Manufacturing?

Advanced Manufacturing is the use of innovative technology to improve products or processes. Here in New Hampshire, there is a high demand for skilled workers in this field. The Advanced Manufacturing program at Lakes Region Community College was developed in conjunction with industry professionals with employment opportunities in a variety of areas, and will provide students with an understanding of manufacturing operations and processes. Students will gain knowledge in materials, processes, quality control, machine operations, machine set-up and tool section, and operation management skills.

Potential Jobs/Careers:

- Machinist
- CNC Operator
- CNC Setup Person
- CNC Programmer
- Manufacturing Supervisor

Potential Salary:

There is a wide range of jobs in the manufacturing industry. See below for the average annual salary range in NH for a Machinist.

- **Entry Level \$37,980**
- **Mid-Range \$50,252**
- **Experienced \$59,321**

**New Hampshire Occupational Employment & Wages 2020, published by the NH Economic and Labor Market Information Bureau. Salaries are based on 40 hours of work, not including overtime.*

Estimated Program Cost:

- **Year 1: \$7,095**
 - **Year 2: \$6,880**
- for a total of \$13,975

**Costs are based on in-state tuition and do not include fees, supplies, or books. Additional fees may apply; all prices are subject to change*

Did you know?

"I was completely new to the field and this program allowed me an opportunity for gaining hands-on experience at a pace and expertise that was accessible to me."

— Dustin Punches, A.S. Advanced Manufacturing, Class of 2019
A.S. Electro-Mechanical Technologies, Class of 2019

Degree & Certificate Requirements

DEGREE Requirements

FIRST YEAR Fall Semester		Credits
ENGL100L	English Composition	4
MANF142L	Machine Processes	3
MANF131L	Blueprint Reading	3
MANF145L	Manufacturing Processes	3
ESNT120L	College Essentials	1
ELECTIVE	Social Science Elective	3
TOTAL		17

FIRST YEAR Spring Semester		Credits
MANF132L	Solid Modeling	3
MANF151L	CNC Machines I	2
MANF152L	CNC Machines I Lab	2
MATH137L	Technical Algebra & Geometry	4
ELECTIVE	Humanities/Fine Arts/Foreign Language Elective	3
TOTAL		14

Total Credits for Year = 31

SECOND YEAR Fall Semester		Credits
MANF211L	CNC Machines II	1
MANF212L	CNC Machines II Lab	2
MANF230L	CAD/CAM	3
MANF240L	Lean Manufacturing	3
PHYS125L	Technical Physics	3
ELECTIVE	Liberal Arts Elective	3
TOTAL		15

SECOND YEAR Spring Semester		Credits
MANF250L	Advanced CNC Machine Processes	4
BUS232L	Operations Management	3
MANF220L	Properties of Materials	4
MANF270L	Capstone	3
OR		
MAN280L	Internship	3
TOTAL		14

Total Credits for Year = 29
Total for A.S. Degree = 60

CERTIFICATE Requirements

		Credits
ESNT120L	College Essentials	1
MANF120L	Machine Tool Math	3
MANF131L	Blueprint Reading	3
MANF142L	Machine Processes	3
MANF151L	CNC Machines I	2
MANF152L	CNC Machines I Lab	2
MANF211L	CNC Machines II	1
MANF212L	CNC Machines II Lab	2
TOTAL		17