



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 collaboration 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 \$39,936**
- **Mid-Range \$51,729**
- **Experienced \$59,384**

*\*New Hampshire Occupational Employment & Wages 2022, 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: \$7,384**
  - **Year 2: \$7,266**
- for a total of \$14,650

*\*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*

# Degree & Certificate Requirements

## DEGREE Requirements

FIRST YEAR Fall Semester		Credits
<b>MATH137L</b>	Technical Algebra & Geometry	4
<b>MANF142L</b>	Machine Processes	3
<b>MANF131L</b>	Blueprint Reading	3
<b>MANF145L</b>	Manufacturing Processes	3
<b>INDL100L</b>	College Essentials	1
<b>ELECTIVE</b>	Social Science Elective	3
<b>TOTAL</b>		<b>17</b>

FIRST YEAR Spring Semester		Credits
<b>MANF132L</b>	Solid Modeling	3
<b>MANF151L</b>	CNC Machines I	2
<b>MANF152L</b>	CNC Machines I Lab	2
<b>ENGL100L</b>	English Composition	4
<b>ELECTIVE</b>	Humanities/Fine Arts/Foreign Language Elective	3
<b>TOTAL</b>		<b>14</b>

**Total Credits for Year = 31**

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

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

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

## CERTIFICATE Requirements

		Credits
<b>INDL100L</b>	College Essentials	1
<b>MANF120L</b>	Machine Tool Math	3
<b>MANF131L</b>	Blueprint Reading	3
<b>MANF142L</b>	Machine Processes	3
<b>MANF151L</b>	CNC Machines I	2
<b>MANF152L</b>	CNC Machines I Lab	2
<b>MANF211L</b>	CNC Machines II	1
<b>MANF212L</b>	CNC Machines II Lab	2
<b>TOTAL</b>		<b>17</b>



APPLY HERE

**Ask us about available scholarships!**

The Community College System of NH does not discriminate in the administration of its admissions and educational programs, activities, or employment practices on the basis of race, creed, color, religion, ancestry or national origin, age, sex, sexual orientation, gender identity and expression, physical or mental disability, genetic information, or law enforcement, military, veteran, or marital status.

