



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

**New Hampshire Occupational Employment & Wages 2021, 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: **\$7,054**
 - Year 2: **\$7,046**
- for a total of \$14,100

**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

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.

