

# Mechanical Engineering Technology

## Degree Type

Associate of Science

NHTI's Mechanical Engineering Technology degree program educates you in the mechanical engineering field and includes courses in the areas of design, manufacturing, and controls. Math and physical sciences are emphasized to give you the basic knowledge to cope with changing technology. Course work incorporates theory and practice with extensive computer applications including computer-aided drawing/modeling and design.

**Do you have questions?** Contact Liaquat Khan, department chair, at [lkhan@ccsnh.edu](mailto:lkhan@ccsnh.edu) or 603-271-6484 x4221, or Dennis Tappin, program coordinator, at [dtappin@ccsnh.edu](mailto:dtappin@ccsnh.edu) or 603-271-6484 x4359.

## Career Information

Students who complete this program can enter into the following professions (not an inclusive list): assistant engineer, machine designer, engineering sales representative, engineering laboratory technician, technical supervisor, and CAD operator.

## Admission Requirements

Apply for this program today on our [Admissions page](#) with step-by-step instructions and enrollment pathways build just for you!

Applicants are required to have:

- Three years of college preparatory math (Algebra I, Algebra II, and Geometry) with minimum grades of C
- It is recommended all applicants have satisfactorily completed high school-level Chemistry and Physics.

## Curriculum

### First Year

Fall Semester

Item #	Title	Lecture Hours	Lab Hours	Credits
ENGL101C	English Composition	4	0	4
MCET105C	Engineering Design	4	0	4
MATH124C	College Algebra	4	0	4
PHYS133C	Physics I (Algebra-based)	3	2	4
	<b>Subtotal Credits</b>	<b>15</b>	<b>2</b>	<b>16</b>

Spring Semester

Item #	Title	Lecture Hours	Lab Hours	Credits
	ENGL 120C/COMM 120C or COMM 125C/ ENGL 125C	3	0	3
MFET111C	Manufacturing and Materials Processing	3	3	4
MCET150C	Statics and Strength of Materials	3	2	4
MATH140C	Precalculus	4	0	4
PHYS135C	Physics II (Algebra-based)	3	2	4
	<b>Subtotal Credits</b>	<b>16</b>	<b>7</b>	<b>19</b>

## Second Year

Fall Semester

Item #	Title	Lecture Hours	Lab Hours	Credits
CHEM105C	Chemistry	3	2	4
MCET250C	Dynamics and Mechanical Design I	3	2	4
MFET202C	Measurement and Control	3	2	4
MATH205C	Calculus I	4	0	4
	Social Science elective	3	0	3
	<b>Subtotal Credits</b>	<b>16</b>	<b>6</b>	<b>19</b>

Spring Semester

Item #	Title	Lecture Hours	Lab Hours	Credits
MCET205C	Material Science	3	2	4
MCET229C	Thermodynamics	3	0	3
MCET260C	Mechanical Design II	3	2	4
	Humanities/Fine Arts/Language elective	3	0	3-4
	Technical elective	3	0	3-4
	<b>Subtotal Credits</b>	<b>15-17</b>	<b>4</b>	<b>17-19</b>
	<b>Total Credits</b>			<b>71-73</b>

## Additional Information

Accreditation

This program is accredited by the Engineering Technology Accreditation Commission of ABET, [www.abet.org](http://www.abet.org).

Program Learning Outcomes

Graduates are able to:

- Apply knowledge, techniques, skills, and modern tools of math, science, engineering, and technology to solve engineering problems.
- Design solutions for technical problems and assist with the engineering design of systems, components, and processes.
- Apply written, oral, and graphical communication and identify and use appropriate technical literature.
- Conduct standard tests, measurements, and experiments, and analyze and interpret the results.
- Function effectively as a member of a technical team.

*Program Educational Objectives*

- Prepare graduates for professional entry-level positions to meet the demands of industry.
- Prepare graduates with the skills to enter a four-year degree program.
- Prepare graduates to be life-long learners to meet the technical needs of an ever-changing society.
- Prepare graduates to effectively communicate in a diverse world with respect to social and ethical issues.