Manufacturing Engineering Technology – Advanced Manufacturing

Degree Type
Associate of Science

This program is not currently accepting new students.

NHTI's Manufacturing Engineering Technology – Machining degree program educates you in the manufacturing field, emphasizing mathematics and science courses to give you the knowledge to cope with changing technology. Course work incorporates the theory and practice of manufacturing from planning and layout through the operation and control phases. Extensive computer applications are part of the program, including computer-aided drawing/ modeling and automation in manufacturing. English and social sciences are taught to broaden your perspective and improve communication skills.

Do you have questions? Contact Dennis Tappin at dtappin@ccsnh.edu.

Career Information

Graduates are employed in positions such as production planners, management assistants, material planners, and manufacturing engineering technicians.

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:

- At least three years of college preparatory math (Algebra I, Algebra II, and Geometry) with a C or higher
- All engineering technology applicants should have satisfactorily completed high school-level courses in Chemistry and Physics.

Curriculum

First Year

Fall Semester

Item #	Title	Lecture Hours	Lab Hours	Credits
ENGL101C	English Composition	4	0	4
	MCET105C or MFET111C	3	3	4
MATH124C	College Algebra	4	0	4
PHYS133C	Physics I (Algebra-based)	3	2	4
	Subtotal Credits	**14-15**	**5**	**16**

Spring Semester

Item #	Title	Lecture Hours	Lab Hours	Credits
	ENGL 120C/COMM 120C or ENGL 120MC/ COMM 120MC or ENGL 125C/COMM 125C	3	0	3
	MCET105C or MFET111C	3	3	4
MATH140C	Precalculus	4	0	4
PHYS135C	Physics II (Algebra-based)	3	2	4
	Social Science elective	3	0	3
	Subtotal Credits	**16-17**	**5**	**18**

Second Year

Fall Semester

Item #	Title	Lecture Hours	Lab Hours	Credits
CHEM105C	Chemistry	3	2	4
MATH251C	Statistics	4	0	4
MFET202C	Measurement and Control	3	2	4
MFET210C	Lean Manufacturing	3	0	3
MFET220C	Manufacturing Processes and Machine Tools	3	3	4
	Subtotal Credits	**16**	**7**	**19**

Spring Semester

Item #	Title	Lecture Hours	Lab Hours	Credits
MCET205C	Material Science	3	2	4
MFET241C	Computer-Integrated Manufacturing	3	3	4
MFET252C	Quality Control	3	2	4
	Humanities/Fine Arts/Language elective	3	0	3-4
	Subtotal Credits	**12-13**	**7**	**15-16**
	Total Credits			**68-69**

Additional Information

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 technical solutions and assist with the engineering design of systems, components, and processes.
- Apply written, oral, and graphical communication in technical and non-technical environments 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 Objectives

- Prepare graduates for professional entry-level positions with the engineering technical skills to meet the demands of industry in mechanical design, manufacturing, and industrial automation.
- Prepare graduates with the skills necessary to enter a four-year bachelor's degree program.
- Prepare graduates with skills to meet the technical needs of an ever-changing society.
- Prepare graduates to communicate in a diverse world with respect to social awareness and ethical issues.

Read More About this Program!

MFET: Building Confidence and Technological Competence

Engineering vs Engineering Technology: What You Need to Know