Mechanical Engineering Technology

Degree Type
Associate in Science

Nashua Community College's Mechanical Engineering Technology degree is based on the real-world experience of our instructors and the time tested fundamentals of Mechanical Engineering.

This program includes multiple design courses using the parametric design software Solidworks. Additional disciplines include hydraulics and pneumatics, programmable logic controllers, circuit analysis, chemistry and machining technology to provide students with a range of engineering disciplines.

A fundamental component of engineering is mathematics and physics which helps students understand and solve a wide range of engineering problems and challenges. These courses and others such as English, communications, applied mechanics and chemistry round out our Mechanical Engineering Technology Program.

This program provides students the opportunity to directly transfer into the Mechanical Engineering Technology degree at UNH Manchester. This bachelor of science degree offers students a greater number of engineering opportunities in the field of Mechanical Engineering.

Program Outcomes:
Upon the completion of the degree graduates will be able to:

1. Evaluate and apply information technology effectively.
2. Generate engineering drawings that conform to industry standards.
3. Create three-dimensional CAD models and assemblies that meet specific engineering and design criteria.
4. Use three-dimensional CAD models for strength and motion analysis, animation, machining and rapid prototyping processes.
5. Evaluate and specify economical and environmentally friendly manufacturing processes and materials for product development.
6. Produce complete and comprehensive drawing packages as well as understand Engineering Change Order procedures.
7. Develop, design and manufacture a socially responsible industrial product.
8. Demonstrate critical and creative thinking skills to meet design and production deadlines.
9. Perform basic automation programming, fluid power, machining, and electronics related tasks in a production or test environment.

First Year - Fall Semester

Item #	Title	Class Hours	Lab Hours	Credits
CAD111N	CADD I	3	4	5
MTTN101N	Manufacturing Processes	3	0	3
ENGL101N	College Composition	4	0	4
MATH120N	PreCalculus	4	0	4

First Year - Spring Semester

Item #	Title	Class Hours	Lab Hours	Credits
CAD112N	CADD II	3	4	5
MTTN118N	Machining Technology	2	3	3
MDTN110N	Automation Programming	1	4	3
PHYS130N	Physics I	3	3	4

Second Year - Fall Semester

Item #	Title	Class Hours	Lab Hours	Credits
CAD215N	CADDIII	3	6	5
ELET131N	Circuit Analysis I	3	3	4
ELMT203N	Applied Mechanics I	3	1	3
	English/Communications Core and Elective Requirements			3
MATH210N	Calculus I	4	0	4

Second Year - Spring Semester

Item #	Title	Class Hours	Lab Hours	Credits
CHEM130N	General Chemistry I	3	3	4
ELMT204N	Fluid Power Design	2	1	2
ELMT210N	Applied Mechanics II	2	1	2
MTTN201N	Lean and Green Manufacturing Methods	3	0	3
	Behavioral Social Science Core Requirement			3
	Humanities/Fine Arts/Philosophy or Global Awareness			3
MDTN285N	Mechanical Design Capstone	3	2	4
		Total Credits		**71**