



We are all teachers. We are all learners.

Program Outcomes-Objectives/ Student Learning Outcomes

Program: A.S. Manufacturing Engineering Technology

All degree and certificate programs at NHTI, Concord's Community College engage in a cycle of continuous improvement in which a set of clearly defined learning outcomes guide program development and analysis of student performance data, relative to these outcomes, is used as a basis to modify curriculum, instruction and assessment. Program outcomes articulate the knowledge, skills and habits of mind that a student must demonstrate upon program completion. These outcomes reflect the knowledge, skills and habits of mind articulated in the NHTI Educated Person's Outcomes statement, Essential Employability Qualities, and Professional Standards. A program outcome may have an additional sub-set of outcomes. The program in MFET has established an annual cycle for the analysis of outcomes data.

This is consistent with our ABET accreditation.

Demonstration of learning. Students demonstrate their learning and attainment of specified outcomes through a range of work products and key assessments. These assessments include senior capstone projects, service learning/civic engagement projects, undergraduate research projects.

I. Program Learning Outcomes/Objectives

1. Prepare graduates for professional entry level positions with the engineering technical skills to meet the demands of industry in the areas of mechanical design, manufacturing, and industrial automation.
2. Prepare graduates with the skills necessary to enter a four-year baccalaureate program.
3. Prepare graduates with skills to be life-long learners to meet the technical needs of an ever-changing society.
4. Prepare graduates to effectively communicate in a diverse world with respect to social awareness and ethical issues.

II. Student Learning Outcomes

1. An ability to apply knowledge, techniques, skills and modern tools of mathematics, science, engineering, and technology to solve well-defined engineering problems appropriate to the manufacturing engineering discipline.
2. An ability to design solutions for well-defined technical problems and assist with the engineering design of systems, components, or processes appropriate to the manufacturing engineering discipline.
3. An ability to apply written, oral, and graphical communication in well-defined technical and non-technical environments; and an ability to identify and use appropriate technical literature.
4. An ability to conduct standard tests, measurements, and experiments and to analyze and interpret the results.
5. An ability to function effectively as a member of a technical team.