

Technology Department Engineering Technology

Engineering Technology Program Mission Statement

Our mission is to prepare our students for careers in engineering technology that includes engineering principles, practical experience and an educational foundation so that they can succeed professionally, intellectually and responsibly.

Electrical Engineering Technology Program

The educational experience of our students is a top priority in our department. Based on the Mission Statements of the College, the Department and the Program, we have established the following four Program Educational Objectives for the graduates of our program:

- GOAL 1** Graduates will assume professional positions in industry which utilize their technical skill and problem solving ability.
- GOAL 2** Graduates are prepared with the technical, analytical and communication skills needed to advance in their professional career.
- GOAL 3** Graduates will continue their education through further college education, obtaining professional licensing, and other channels of instruction.
- GOAL 4** Graduates are prepared to appreciate the role and limitations of technology in enhancing the quality of life and to deliver responsible technology.

Technology Department

Electrical Engineering Technology Program

TAC/ABET Student Learning Outcomes

The program outcomes established for the program are the TAC of ABET outcome requirements of Criterion 2, (a) through (k), listed in the table below:

Outcome	Description
(a)	An appropriate mastery of the knowledge, techniques, skills and modern tools of their disciplines
(b)	An ability to apply current knowledge and adapt to emerging applications of mathematics, science, engineering and technology
(c)	An ability to conduct, analyze and interpret experiments and apply experimental results to improve processes
(d)	An ability to apply creativity in the design of systems, components or processes appropriate to program objectives
(e)	An ability to function effectively in teams
(f)	An ability to identify, analyze and solve technical problems
(g)	An ability to communicate effectively
(h)	A recognition of the need for, and an ability to engage in lifelong learning
(i)	An ability to understand professional, ethical and social responsibilities
(j)	A respect for diversity and a knowledge of contemporary professional, societal and global issues
(k)	A commitment to quality, timeliness, and continuous improvement

Technology Department Engineering Technology

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Mechanical Engineering Technology Program

The educational experience of our students is a top priority in our department. To help monitor the effectiveness of our curriculum and the quality of a Buffalo State's Mechanical Engineering Technology Degree, we have formalized and upgraded many of the assessment and evaluation activities which have been a part of our educational program for many years.

We have established three educational goals for our undergraduate students:

- GOAL 1** To instill in our students a high-quality basic education in mechanical engineering technology fundamentals.
- GOAL 2** To develop in our students the skills required to apply engineering fundamentals to the analysis, synthesis, and evaluation of mechanical engineering technology problems.
- GOAL 3** To foster in our students personal development to ensure a lifetime of professional success and an appreciation for the ethical and social responsibilities of a mechanical engineering technologist and a world citizen.

Technology Department

Mechanical Engineering Technology Program

TAC/ABET Student Learning Outcomes

Outcome	Description
(a)	An ability to apply knowledge of mathematics, science, and engineering.
(b)	An ability to design and conduct experiments, as well as analyze and interpret data.
(c)	An ability to design a system, component, or process to meet desired needs.
(d)	An ability to function on multi-disciplinary teams.
(e)	An ability to identify, formulate, and solve engineering problems.
(f)	An understanding of professional and ethical responsibility.
(g)	An ability to communicate effectively.
(h)	The broad education necessary to understand the impact of engineering technology solutions in a global and societal context.
(i)	A recognition of the need for, and an ability to engage in life-long learning.
(j)	A knowledge of contemporary issues.
(k)	An ability to use the techniques, skills, and modern engineering tools necessary for engineering technology practice.