

Industrial Engineering Technology Objectives and Outcomes

Program Educational Objectives:

Program educational objectives are broad statements that describe what graduates are expected to attain within a few years after graduation. Program educational objectives are based on the needs of the program's constituencies.

The Industrial Engineering Technology Bachelor of Science program graduates are expected to attain the following objectives:

- 1.) Apply engineering principles to the work environment;
- 2.) Use quality tools and data to anticipate and solve issues in the engineering process; and
- 3.) Work collaboratively.

Student Outcomes (ABET a-k)

Student outcomes describe what students are expected to know and be able to do by the time of graduation. These relate to the knowledge, skills, and behaviors that students acquire as they progress through the program.

- a.) An ability to select and apply the knowledge, techniques, skills, and modern tools of the discipline to broadly-defined engineering technology activities;
- b.) An ability to select and apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require the application of principles and applied procedures or methodologies;
- c.) An ability to conduct standard tests and measurements; to conduct, analyze, and interpret experiments; and to apply experimental results to improve processes;
- d.) An ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives;
- e.) An ability to function effectively as a member or leader on a technical team;
- f.) An ability to identify, analyze, and solve broadly-defined engineering technology problems;
- g.) An ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature;
- h.) An understanding of the need for and an ability to engage in self-directed continuing professional development;
- i.) An understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity;
- j.) A knowledge of the impact of engineering technology solutions in a societal and global context; and
- k.) A commitment to quality, timeliness, and continuous improvement.