LEARNING OUTCOMES

Undergraduate Degree Programs of Study
The Bachelor of Science in Engineering degree programs accredited by the Engineering Accreditation Commission (EAC) of ABET must demonstrate that their graduates attain the following outcomes:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
3. An ability to communicate effectively with a range of audiences
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies

The Bachelor of Science in Engineering Technology degree programs accredited by the Engineering Technology Accreditation Commission (ETAC) of ABET must demonstrate that their graduates attain the following outcomes:

1. An ability to select and apply the knowledge, techniques, skills, and modern tools of their discipline to broadly defined engineering technology activities
2. 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
3. An ability to conduct standard tests and measurements; to conduct, analyze and interpret experiments; and to apply experimental results to improve processes
4. An ability to design systems, components, or processes for broadly-defined engineering technology problems appropriate to program educational objectives
5. An ability to function effectively as a member or leader on a technical team
6. An ability to identify, analyze and solve broadly-defined engineering technology problems
7. 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
8. An understanding of the need for and an ability to engage in self-directed continuing professional development

The Bachelor of Science in Engineering and Engineering Technology degree programs accredited by the Computing Accreditation Commission (CAC) of ABET must demonstrate that their graduates will have the ability to:

1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions
2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline
3. Communicate effectively in a variety of professional contexts
4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles
5. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline

9. An understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity
10. A knowledge of the impact of engineering technology solutions in a societal and global context
11. A commitment to quality, timeliness, and continuous improvement.