COMPUTER ENGINEERING TECHNOLOGY (CETE)

Student Outcomes

These are statements that describe what students are expected to know and be able to do by the time of graduation. These relate to the skills, knowledge, and behaviors that students acquire in their matriculation through the program.

By the time of graduation graduate, students in the Computer Engineering Technology program will have or demonstrate:

a. An appropriate mastery of the knowledge, techniques, skills and modern tools of computer-based application systems hardware and software.

b. An ability to apply current knowledge and adapt to emerging applications of science, technology, engineering, and mathematics (STEM).

c. An ability to conduct, analyze and interpret experiments and apply experimental results.

d. An ability to apply creativity in the design of computer-based applications systems, components or processes in accordance with program educational objectives.

e. An ability to function effectively on teams.

f. An ability to identify, analyze and troubleshoot both hardware and/or software 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, societal and global issues.

k. A commitment to quality, timeliness and continuous improvement.

l. The ability to utilize computer programming, software packages, analog and digital circuits, microcontrollers, operating systems, and/or networks.

m. The applications of physics or chemistry to computer-based applications in a rigorous mathematical environment.

n. The ability to analyze, design, and implement hardware and software computer-based applications.

o. The ability to apply project management techniques.

p. The ability to utilize statistics/probability, transform methods, discrete mathematics, or applied differential equations in support of computer systems and networks.