

Electronic and Computer Engineering Technology program graduates will demonstrate:

A. Technical Skills and Knowledge.

1. the understanding of electric circuits, circuit analysis techniques, and analog circuit design.
2. the understanding of computer programming, digital circuit design, microcomputers, operating systems, and local area networks.
3. the understanding of industrial electronic control components and systems.
4. ability to construct, operate, and maintain electrical and electronic systems, computer systems, and associated software systems.

B. Creative Design, Application, and Lifelong Learning.

1. ability to analyze, design, and implement control systems, instrumentation systems, communication systems, and computer hardware and software systems.
2. ability to utilize statistics/probability, transform methods, discrete mathematics, or applied differential equations in support of electrical and electronic systems, computer systems, and networks.
3. application of physics or chemistry to electrical, electronic, and computer systems in a rigorous mathematical environment at or above the level of algebra and trigonometry.
4. ability to be life-long learners.
5. commitment to quality and continuous improvement.

C. Communication.

1. ability to write clear and effective technical reports, proposals, and business correspondence.
2. ability to communicate orally technical information to a variety of audiences.

D. Professional Behavior in a Diverse World.

1. understanding and respect for diversity in the workplace.
2. importance of working effectively as teams.
3. awareness of the impact of technology on our society.

E. Professional Development.

1. ability to apply project management techniques to electrical and electronic systems or computer systems.
2. ability to practice professional ethics and social responsibility.