

B.S. in Engineering Technology – Computer Systems Technology Option ETB-CP

Graduates of the Computer Systems Technology option will demonstrate:

A. Technical Skills and Knowledge.

1. Knowledge of computer hardware, architecture and digital logic.
2. Knowledge of operating systems and programming language processing.
3. Knowledge of current computer programming tools, techniques and languages.
4. Knowledge of current tools and techniques of database systems, Web technology, and computer networking.
5. Ability to apply current tools and techniques in the design of database systems, stand alone applications, web technology and computer networking
6. Ability to build, operate and maintain a complex database system, Internet web site, stand-alone application or local area network.

B. Creative Design, Application and Lifelong Learning.

1. Ability to analyze, design, implement, test, and document stand alone computer programs.
2. Ability to creatively solve problems by analyzing, designing, and implementing computer information systems
3. Ability to apply project management techniques to the development of a computer system.
4. Application of mathematics to computer systems at or above the level of algebra and trigonometry.
5. A commitment to life-long learning.
6. A commitment to quality and continuous improvement.

C. Communication.

1. Write clear and effective technical documents and reports.
2. Verbally communicate technical information to a variety of audiences.

D. Professional Behavior in a Diverse World.

1. A respect and understanding of diversity in the workplace.
2. An ability to work effectively on teams.

E. Professional Development.

1. Knowledge of professional ethics and social responsibility.
2. Awareness of the impact of technology on society.