



Division of Science, Technology, Engineering and Mathematics

Associate in Science in Information Systems, Technology and Management: Technology Concentration

This program prepares students with knowledge and skills required to analyze the IT environment at an organization in order to solve problems, setup or implement, and maintain information technology systems. Students graduating from this program will be able to enter the job market as entry-level Information Technology technician. Students graduating from the Associate in Science in Information Systems, Technology and Management: Technology Concentration program will achieve proficiency in the college-wide learning outcomes.

Successful graduates of this program will be able to:

1. Design and create a database system and web site for a given organization and use scripting language to implement solutions for system administration problems and data-driven applications;
2. Describe the impact of computer-based systems on individuals, organizations, and society;
3. Design, maintain, and manage a small network of computers using a working knowledge of computer networks and data transmission protocols;
4. Identify security threats to computers and networks, and plan, choose, and set up the best protection or prevention mechanism;
5. Develop and maintain a software library that considers particular organizations' need for information and data rights, privacy, and security, services provided, societal responsibilities, ethics, economics, and politics;
6. Work effectively as a team member and leader on projects typical of an IT technician;
7. Communicate effectively with a diverse group of collaborators within the Information Technology and other disciplines using appropriate written and oral presentation conventions;
8. Apply critical thinking and problem-solving skill to IT networking and administration problems;
9. Apply knowledge of mathematics and mathematical-based algorithms to networking and security configuration and setup;



10. Use scientific knowledge and methodology to test, validate, and update their knowledge about the natural world.