MASSBAY COMMUNITY COLLEGE

Division of Science, Technology, Engineering and Mathematics

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

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

Successful graduates of this program will be able to:

1. Use business application software to create documents, presentations, and accounting spreadsheets;
2. Design and create a database system for a given organization and build database-driven multi-tier web sites (data access, business, and presentation);
3. Use scripting language to implement solutions for information systems management and administration problems;
4. Manage and maintain information systems while understanding the impact analyzing a system and designing a solution can have on individuals, organizations, economics, and society;
5. Design, maintain, and manage a small network of computers using a working knowledge of computer networks and data transmission protocols;
6. Identify security threats to computers and networks and plan, choose, and set up the best protection and/or prevention mechanism;
7. Develop and maintain a software library that considers the requirements of information and data rights, privacy, and security, services, societal responsibilities, ethics, economics, and politics;
8. Work effectively as a team member and as a leader on IT projects;
9. Communicate effectively with a diverse group of collaborators within Computer Information Systems and other disciplines using appropriate written and oral presentation conventions;
10. Apply critical thinking and problem-solving skill to design and management of information systems;
11. Use a variety of mathematical tools and quantitative reasoning to solve problems and analyze complex challenges;

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