MASSBAY COMMUNITY COLLEGE

Division of Science, Technology, Engineering and Mathematics

Associate in Science in Computer Science

This program provides students with solid knowledge and skills in computing, mathematics, and physics that are fully comparable, therefore transferable, to a junior-level computer science student at a four-year institution. Students graduating from the Associate in Science in Computer Science program will achieve proficiency in the college-wide learning outcomes.

Successful graduates of this program will be able to:

1. Analyze a problem and craft an appropriate algorithmic solution;
2. Design, implement and evaluate an appropriate computer-based system, process, component, or program to satisfy required specifications;
3. Apply knowledge of computing (hardware, organization, low-level and systems programming, data structures, and various high-level programming), mathematics, and physics appropriately to develop systems/software for other disciplines;
4. Understand the impact of computing on individuals, organizations, and society and implement systems that respond to the needs of the end-user(s);
5. Exhibit critical thinking, creative thinking, and problem-solving skill to wide array of issues and problems in scientific as well as non-scientific disciplines;
6. Work effectively as a team member and leader by making meaningful contributions, organizing and distributing workload between people, responding to conflict, and learning from and teaching others;
7. Communicate effectively with a diverse group of collaborators within the computer science and other disciplines using appropriate written and oral presentation conventions.