## Information Systems Technology & Management: Technology Concentration

Associate in Science

DIVISION OF SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

Students completing Information Systems Technology & Management: Technology will be knowledgeable and experienced in systems and technologies. Students will be able to: support various types of technologies related to operating systems, have experience working with various web technologies related to design, understand fundamental cyber security issues, know how to support and build Computer Networks in Windows and Linux, design, create and use databases, write scripts to perform administrative operations related to computer systems.

The current job market requires that students have a broader background that includes exposure to the latest technologies related to web technologies as well as cyber security and exposure to administrative tasks in the Windows and Linux systems. This degree will prepare students for careers in fields related to helpdesk, technology, networks, and web support.

Upon successful completion, the Associate in Science Degree in Information Systems Technology & Management: Technology is awarded.

## **PROGRAM FOOTNOTES**

## **Humanities Electives:**

Art, Communication, English (EN 103 or higher), Film, Foreign Language, Humanities, Literature, Music, Oral Communication, Philosophy, Photography, Sign Language, Theater Arts

**Social Science Electives:** Anthropology, Economics, Geography, Government, History, Law, Psychology, Sociology

Program Electives: CS 120 Programming I, CS 126 Digital Imaging, CS 140 Interactive Multimedia, CS 141 Linux Management, CS 176 Web Design, CS 180 Intro to Operating Systems, CS 200 Programming II, CS 235 Systems Analysis and Design, CS 241 Web Site Development, CS 243 Computer Networks II

Competency in mathematics is a MassBay graduation requirement. Prior to graduation, students must demonstrate competency at 100-level math. This may be accomplished by an appropriate placement test score or completion of any 100-level mathematics course or higher, except mathematics courses with a MAC prefix.

First Year         Semester 1           CS 107         Fundamentals of the Internet         1           CS 108         Fundamentals of Web Design         1           CS 109         Web and Social Media         1           CS 110         Introduction to Computer Science         4           CT 100         Critical Thinking         3           EN 101         Freshman English I         3           First Year         Semester 2         13           CS 118         Scripting         3           CS 119         Fundamentals of IT         4           Fundamentals of Cyber Security         3           EN 102         Freshman English II         3           Program Elective         3/4           CS 213         Semester 1           CS 240         Computer Networks         4           MA 105         Introduction to Statistics         3           A Program Elective         3/4           Second Year         Semester 2           Social Science Elective         3           Humanities Elective         3           Humanities Elective         3           Program Elective         3           Program Elective         4	COURSE	COURSE TITLE	CREDITS
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CS 109         Web and Social Media         1           CS 110         Introduction to Computer Science         4           CT 100         Critical Thinking         3           EN 101         Freshman English I         3           Freshman English I         3           CS 118         Scripting         3           CS 118         Scripting         3           CS 113         Fundamentals of IT         4           CS 116         Fundamentals of Cyber Security         3           EN 102         Freshman English II         3           Program Elective         3/4           Credits: 16/17           Second Year           Semester 1           CS 213         Database Management Systems         4           CS 242         Computer Networks         4           MA 105         Introduction to Statistics         3           Program Elective         3/4           Second Year           Semester 2         Social Science Elective         3           Humanities Elective         3           Humanities Elective         3           Program Elective         4           Computer Science	CS 107	Fundamentals of the Internet	1
CS 110   Introduction to Computer   Science   CT 100   Critical Thinking   3   EN 101   Freshman English   3	CS 108	Fundamentals of Web Design	1
CS 110         Science         4           CT 100         Critical Thinking         3           EN 101         Freshman English I         3           Freshman English I         3           CS 118         Scripting         3           CS 118         Scripting         3           CS 113         Fundamentals of IT         4           CS 116         Fundamentals of Cyber Security         3           EN 102         Freshman English II         3           Program Elective         3/4           Second Year           Semester 1           CS 213         Database Management Systems         4           CS 242         Computer Networks         4           MA 105         Introduction to Statistics         3           Program Elective         3/4           Credits: 14/15           Semester 2           Social Science Elective         3           Humanities Elective         3           Humanities Elective         3           OR           Social Science Elective         3	CS 109	Web and Social Media	1
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Summer  CS 280 Computer Science Internship 1		Program Elective	4
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		Total Credits:	60/62