


# Information Systems Technology & Management: Technology Concentration

## Associate in Science

 MassBay courses are offered days, evenings, weekends, and online. View the complete list of online courses at <https://mbccweb.massbay.edu/online/>.

Check current course availability at [www.massbay.edu/courses](http://www.massbay.edu/courses)

### 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

COURSE	COURSE TITLE	CREDITS
<i>First Year</i>		<i>Semester 1</i>
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
		<b>credits:</b>
		<b>13</b>
<i>First Year</i>		<i>Semester 2</i>
CS 118	Scripting	3
CS 113	Fundamentals of IT	4
CS 116	Fundamentals of Cyber Security	3
EN 102	Freshman English II	3
		3/4
		<b>credits:</b>
		<b>16/17</b>
<i>Second Year</i>		<i>Semester 1</i>
CS 213	Database Management Systems	4
CS 242	Computer Networks	4
MA 105	Introduction to Statistics	3
		3/4
		<b>credits:</b>
		<b>14/15</b>
<i>Second Year</i>		<i>Semester 2</i>
		3
		3
		3
		OR
		3
		3
		4
		<b>credits:</b>
		<b>16</b>
<i>Summer</i>		
CS 280	Computer Science Internship	1
		<b>Total Credits:</b>
		<b>60/62</b>

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.