


# Computer Information Systems

## 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

This program is designed to prepare students for employment in the computer information industry or to transfer and pursue a baccalaureate degree in computer information or any related field.

Computer courses give the students a sound background in computer programming, data modeling and database design, computer networks, web design and development, accounting and financial skills.

Upon successful completion, the Associate in Science Degree in Computer Information Systems 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 116 Fundamentals of Cyber Security, CS 126 Digital Imaging, CS 140 Interactive Multimedia, CS 141 Linux System Management, CS 176 Web Design, CS 243 Computer Networks II, MK 214 E-Commerce, MN140 Project Management

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.

The program qualifies as an Alternative Transfer Agreement (MassTransfer) with select public institutions in Massachusetts. For more information, visit [www.mass.edu/masstransfer](http://www.mass.edu/masstransfer).

COURSE	COURSE TITLE	CREDITS
<i>First Year Semester 1</i>		
CS 110	Introduction to Computer Science	4
CS 205	Introduction to Computation	4
CT 100	Critical Thinking	3
EC 201	Principles of Macroeconomics	3
EN 101	Freshman English I	3
		<b>credits:</b>
		<b>17</b>
<i>First Year Semester 2</i>		
CS 120	Programming I	4
CS 113	Fundamentals of IT	4
EN 102	Freshman English II	3
MA 105	Intro to Statistics	3
	Humanities Elective	3
		<b>credits:</b>
		<b>17</b>
<i>Second Semester 1</i>		
AC 101	Financial Accounting I	4
CS 200	Programming II	4
CS 213	Database Management	4
CS 242	Computer Networks	4
		<b>credits:</b>
		<b>16</b>
<i>Second Semester 2</i>		
AC 102	Financial Accounting II	4
CS 235	Information Systems Analysis and Design	4
CS 241	Web Site Development	4
	Program Elective	3/4
	Humanities Elective or Social Science Elective	3
		<b>credits:</b>
		<b>18/19</b>
		<b>Total Credits:</b>
		<b>68/69</b>