Computer Information Systems

Associate in Science

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 113 Fundamentals of IT, CS 120 Programming I, CS 126 Digital Imaging, CS 141 Linux System Management, CS 176 Web Design, CS 200 Programming II, CS 205 Introduction to Computation, CS 241 Web Site Development, CS 243 Computer Networks II, ET 111 iCREAT-I: Introduction to Coding, Robotics, Engineering, and Technology, ET 211 iCREAT-II, LA 236 Cybercrime, AC 206 Managerial Accounting

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.

COURSE	COURSE TITLE	CREDITS
First Year	*Semester 1*	
CS 110	Introduction to Computer Science	4
MA 105	Intro to Statistics	3
CT 100	Critical Thinking	3
EC 201	Principles of Macroeconomics	3
EN 101	Freshman English I	3
	credits:	16
First Year	*Semester 2*	
CS 123	Python Programming	4
CS 242	Computer Networks	4
EN 102	Freshman English II	3
	Program Elective	3/4
	Humanities Elective	3
	credits:	17/18
Second	*Semester 1*	
AC 101	Financial Accounting I	4
CS 213	Database Management	4
CS 116	Fundamentals of Cyber Security	3
	Program Elective	3/4
	credits:	14/15
Second	*Semester 2*	
AC 102	Financial Accounting II	4
CS 235	Information Systems Analysis and Design	4
	Program Elective	3/4
	Humanities Elective	3
	or	
	Social Science Elective	3
	credits:	14/15
	Total Credits:	**61/62**