


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

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 and the Media (LA 200), Law and Society (LA 230), 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 200 Programming II, CS 235 Systems Analysis and Design, CS 241 Web Site Development, CS 246 Web Server Administration, MN 141 Project Management

| COURSE | COURSE TITLE | CREDITS |
|-------------------------------|----------------------------------|--------------|
| <i>First Year Semester 1</i> | | |
| CS 107 | Intro to the Internet | 1 |
| CS 108 | Web Site Development I | 1 |
| CS 109 | Website Development II | 1 |
| CS 110 | Introduction to Computer Science | 4 |
| CT 100 | Critical Thinking | 3 |
| EN 101 | Freshman English I | 3 |
| credits: | | 13 |
| <i>First Year Semester 2</i> | | |
| CS 118 | Scripting | 3 |
| CS 160 | Application Software Strategies | 4 |
| CS 116 | Fundamentals of Cyber Security | 3 |
| EN 102 | Freshman English II | 3 |
| | Program Elective | 3/4 |
| credits: | | 16/17 |
| <i>Second Year Semester 1</i> | | |
| CS 213 | Database Management Systems | 4 |
| CS 242 | Computer Networks | 4 |
| MA 105 | Introduction to Statistics | 3 |
| | Program Elective | 3/4 |
| credits: | | 14/15 |
| <i>Second Year Semester 2</i> | | |
| | Social Science Elective | 3 |
| | Humanities Elective | 3 |
| | Humanities Elective | 3 |
| | OR | |
| | Social Science Elective | 3 |
| | Program Elective | 3 |
| | Program Elective | 4 |
| credits: | | 16 |
| <i>Summer</i> | | |
| CS 280 | Computer Science Internship | 1 |
| Total Credits: | | 60/62 |