Life Sciences
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

This program provides a solid foundation in biological sciences and liberal arts, which can translate into a number of exciting career opportunities. The program is designed to prepare students for transfer to a four-year bachelor’s degree program in biology or pre-med.

Upon successful completion, the Associate in Science Degree in Life Sciences is awarded.

PROGRAM FOOTNOTES

Mathematics Requirement:
MA 104 Pre-Calculus is the minimum standard for meeting the math requirement of the program. Students considering a career in medical sciences should take MA 200 Calculus I and MA 201 Calculus II.

Computer Science Requirement:
CS 100 Computers and Technology or CS 110 Introduction to Computer Science

Physics Sequence Requirement:
PY 101 College Physics I and PY 102 College Physics II or PY 103 Engineering Physics I and PY 104 Engineering Physics II

Program Electives:

Advanced Lab Science Electives:
BI 215 Human Anatomy and Physiology I, BI 217 Human Anatomy and Physiology II, BI 223 Fundamentals of Microbiology, BI 230 Molecular Biology, BI 220 Immunology, BI 240 Forensic Microbiology, CH 210 Biochemistry, PY 103 Engineering Physics I, PY 104 Engineering Physics II

Humanities Electives:
Art, Communication, Critical Thinking, 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

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.

*COURSE* | *COURSE TITLE* | *CREDITS*
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**First Year** | **Semester 1** | 
BI 110 | Principles of Biology I w/ Lab | 4
CH 110 | Principles of Chemistry I w/ Lab | 4
EN 101 | Freshman English I | 3
Math Requirement | credits: | 4
**First Year** | **Semester 2** | 
BI 120 | Principles of Biology II w/ Lab | 4
CH 120 | Principles of Chemistry II w/ Lab | 4
Computer Requirement | 3/4
EN 102 | Freshman English II | 3
Social Science Elective | 3
**Second Year** | **Semester 1** | 
CH 201 | Organic Chemistry I w/ Lab | 4
Physics Sequence Requirement | 4
Program Elective | 3/4
Advanced Laboratory Science Elective | 4
Humanities Elective | 3
**Second Year** | **Semester 2** | 
CH 202 | Organic Chemistry II w/ Lab | 4
Physics Sequence Requirement | 4
Humanities Elective | 3
or
Social Science Elective | 3
Advanced Laboratory Science Elective | 4
**Total Credits:** | 65/67

*In order to fulfill the Critical Thinking graduation competency, students must pass the Critical Thinking Challenge Exam or complete CT 100 Critical Thinking.

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

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