Life Sciences

Associate in Science

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

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

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

Humanities Electives:
Art, Communication, English (EN 103 or higher), ESL (ES 100 or higher; up to 6 credits), Film, Foreign Language, Humanities, Literature, Music, Oral Communication. Philosophy, Photography, Sign Language, Theater Arts

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.

Physics Elective:
PY 101 College Physics I, PY 102 College Physics II, PY 103 Engineering Physics I, PY 104 Engineering Physics II

Program Electives:
MA 105 Statistics, MA 200 Calculus I, MA 201 Calculus II, BI 215 Human Anatomy and Physiology I, EV 110 Principles of Environmental Science & Safety, EV 120 Astronomy, EV 130 Meteorology

Social Science Electives:
Anthropology, Economics, Geography, Government, History, Law, Psychology, Sociology

Quantitative skills are a MassBay graduation competency for associate degree programs. Prior to graduation, students must demonstrate this competency by completing a 100-level math course (not MAC); or placing into a 200-level mathematics course.

COURSE	COURSE TITLE	CREDITS
First Year	*Semester 1*	
BI 110	Principles of Biology I w/ Lab	4
CH 110	Principles of Chemistry I w/ Lab	4
EN 101	English Composition I	3
	Math Requirement	4
	credits:	15
First Year	*Semester 2*	
BI 120	Principles of Biology II w/ Lab	4
CH 120	Principles of Chemistry II w/ Lab	4
CT 100*	Critical Thinking	3
EN 102	English Composition II	3
	credits:	14
Second Year	*Semester 1*	
CH 201	Organic Chemistry I w/ Lab	4
	Physics Elective	4
	Social Science Elective	3
	Program Elective	3/4
	or	
	Advanced Laboratory Science Elective	4
	Computer Science Requirement	3/4
	credits:	17-19
Second Year	*Semester 2*	
CH 202	Organic Chemistry II w/ Lab	4
	Advanced Laboratory Science Elective	4
	Humanities Elective	3
	Social Science Elective	3
	credits:	14
	Total Credits:	**60-62**

*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.