

# 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

##### 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:

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

##### 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

##### 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

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.

\*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](http://www.mass.edu/masstransfer).

COURSE	COURSE TITLE	CREDITS
<i>First Year Semester 1</i>		
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	4
	<b>credits:</b>	<b>15</b>
<i>First Year Semester 2</i>		
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
	<b>credits:</b>	<b>17/18</b>
<i>Second Year Semester 1</i>		
CH 201	Organic Chemistry I w/ Lab	4
	Physics Sequence Requirement	4
	Program Elective	3/4
	Advanced Laboratory Science Elective	4
	Humanities Elective	3
	<b>credits:</b>	<b>18/19</b>
<i>Second Year Semester 2</i>		
CH 202	Organic Chemistry II w/ Lab	4
	Physics Sequence Requirement	4
	Humanities Elective	3
	<b>or</b>	
	Social Science Elective	3
	Advanced Laboratory Science Elective	4
	<b>credits:</b>	<b>15</b>
	<b>Total Credits:</b>	<b>65/67</b>