## Program Description

This program is for students who seek a career in biological sciences. Students will attain a solid foundation in science after taking introductory biology, chemistry, and math courses. Students will have the opportunity to hone their writing and critical thinking skills while taking courses from the liberal arts department. In the second year, students will take more advanced program electives to be better prepared to enter a bachelor's program. By the end of their studies, students should be prepared to continue their education in a four-year biology, biotechnology, or medically-related program or to enter the workforce in an entry-level position in biology.

## Program Outcomes

At the completion of this program, the student should be able to:

- Apply knowledge of biological facts and concepts.
- Collect accurate and meaningful data and derive reasonable conclusions from its analysis.
- Apply analytical thinking and scientific method in designing experiments and problem solving.
- Analyze and apply fundamental concepts and techniques to scientific issues as part of team-based tasks.
- Synthesize information and show effective written, verbal, and graphical communication skills.

Additional Information

1. Indicates course requires the completion of a prerequisite.

NOTE: All classes are offered in the fall and the spring unless otherwise designated:
$\mathrm{F}=$ Class is only offered in the Fall S=Class is only offered in the Spring

| General Education Requirements $\mathbf{- s e e}$ p. $\mathbf{8 9}$ <br> $\mathbf{2 5}$ credits total | Credits |
| :--- | :--- |
| BIO $\mathbf{1 1 1}$ General Biology I w/Lab | 4 credits |
| Computer Science | 3 credits |
| ENG 101 English Composition I | 3 credits |
| ENG 102 English Composition II | 3 credits |
| History/Government | 3 credits |
| IDS 167 First Year Seminar | 3 credits |
| MAT 113 Precalculus ${ }^{1}$ or higher level math course | 3 credits |
| Social Science/Psychology | 3 credits |


| Program Requirements - 36 credits total | Credits |
| :---: | :---: |
| BIO 112 General Biology II w/Lab ${ }^{1}$ | 4 credits |
| BIO 204 Genetics w/Lab ${ }^{1}$ | 5 credits |
| BTC 210 Biochemistry w/Lab ${ }^{1}$ | 4 credits |
| BTC 240 Seminar in Biotechnology | 1 credit |
| CHE 121 General Chemistry I w/Lab ${ }^{1}$ | 4 credits |
| CHE 122 General Chemistry II w/Lab ${ }^{1}$ | 4 credits |
| MAT 107 Statistics ${ }^{1}$ | 3 credits |
| Open Elective | 3 credits |
| Program Electives (see below) | 8 credits |
| Total credits required for graduation | 61 credits |


| Program Electives | Credits |
| :--- | :--- |
| BIO 131 Anatomy \& Physiology I w/Lab |  |
| BIO 132 Anatomy \& Physiology II w/Lab | 4 credits |
| BIO 160 Marine Ecology w/Lab (F) | 4 credits |
| BIO 251 Microbiology w/Lab |  |
| CHE 213 Organic Chemistry I w/Lab ${ }^{1}$ (F) | 4 credits |
| CHE 214 Organic Chemistry II w/Lab¹ (S) | 4 credits |
| ENV 101 Intro. Environmental Studies w/Lab (S) | 5 credits |
| PHY 111 General Physics I w/Lab | 5 credits |
| PHY 112 General Physics II w/Lab ${ }^{1}$ (S) | 4 credits |

Associate in Science Degree

| Semester 1 | Credits | Pre-Requisites |
| :--- | ---: | :--- |
| BIO 111 General Biology I w/Lab | 4 credits |  |
| CHE 121 General Chemistry I w/Lab | 4 credits | MAT 103 |
| ENG 101 English Composition I | 3 credits |  |
| IDS 167 First Year Seminar | 3 credits |  |
| MAT 113 Precalculus or higher level math <br> course | 3 credits | MAT 103 |
| Total | 17 credits |  |


| Semester 2 | Credits | Pre-Requisites |
| :--- | ---: | :--- |
| BIO 112 General Biology II w/Lab | 4 credits | BIO 111 |
| CHE 122 General Chemistry II w/Lab | 4 credits | CHE 121 |
| ENG 102 English Composition II | 3 credits | ENG 101 |
| History/Government | 3 credits |  |
| Social Science/Psychology | 3 credits |  |
| Total | $\mathbf{1 7}$ credits |  |


| Semester 3 | Credits | Pre-Requisites |
| :--- | ---: | :--- |
| BIO 204 Genetics w/Lab | 5 credits | BIO 111 |
| Computer Science | 3 credits |  |
| MAT 107 Statistics | 3 credits | MAT 097 |
| Program Elective | 4 credits |  |
| Total | 15 credits |  |


| Semester 4 | Credits | Pre-Requisites |
| :--- | :---: | :--- |
| BTC 210 Biochemistry w/Lab | 3 credits | CHE 121 and MAT 103 |
| BTC 240 Seminar in Biotechnology | 1 credit | BTC 220 |
| Open Elective | 3 credits |  |
| Program Elective | 4 credits |  |
| Total | $\mathbf{1 2}$ credits |  |

## Semester Path:

Recommended course of study for a full-time student. It is recommended that students speak to an Academic Advisor before registering for courses each semester.

## Student Resources:

## Academic Advising

617-984-1720

Dean's Office of Liberal Arts
617-405-5920

Dean's Office of Natural and Health
Science
617-405-5960

Dean's Office of Nursing
617-405-5990

Dean's Office of Professional
Programs
617-405-5920

Financial Aid Office
617-984-1620

Registrar's Office
617-984-1650

Student Accessibility and Academic Support Services
617-405-5915

