

# Biological Sciences Associate in Sciences

## Biology Transfer Option

The Biology Transfer Option at BHCC provides students with the technical coursework and laboratory experience that enables them to successfully transfer to undergraduate biology programs. Graduates of this program pursue further study at four-year colleges and universities in college-level biology programs including health sciences, biochemistry, biotechnology or ecology. BHCC has transfer agreements with the UMass system enabling Biology Transfer graduates to enroll in any one of these universities at the junior level without losing credits.

## Degree Requirements

### Science Courses

BIO195	General Biology I
BIO196	General Biology II
BIO207	Cell Biology
BIO208	Genetics
CHM201	General Chemistry I
CHM202	General Chemistry II
PHY201 or 251	General or College Physics I
PHY202 or 252	General or College Physics II

### Option Electives (3 courses)

Choose from: BIO120, BIO210, BIO261, BIO262, CHM251, CHM252, ENV211, MAT181, MAT282, SCI221, HON200

Total program credits: 60 – 63



## Biotechnology Option

An explosion of knowledge in molecular biology in the past decade has created an increased demand for skilled workers in the biotechnology industry. The Biotechnology Option at BHCC is a two-year program that requires students to complete technical course work and hands-on laboratory training. Students become confident in their ability to properly handle research materials and operate laboratory equipment used in the field of biotechnology research. Students gain employable skills to join the biotechnology workforce.



## Degree Requirements

### Science Courses

BIO195	General Biology I
BIO196	General Biology II
BIO120	Introduction to Biotechnology
BIO207	Cell Biology
BIO208	Genetics
CHM201	General Chemistry I
CHM202	General Chemistry II
BIO261	Advanced Laboratory Techniques
BIO262	Principles of Molecular Biotech

### Option Electives (2 courses)

Choose from: BIO205, ENV211, CHM121, CHM251, CHM252, CIT113, MAT1181, MAT281, MAT282, SCI221, SCI150, HON200

Total program credits: 60 – 61

For more information about either of these options, visit [bhcc.edu/biologyandchemistry](http://bhcc.edu/biologyandchemistry) or contact Libby Dunphy, [edunphy@bhcc.edu](mailto:edunphy@bhcc.edu), 617-228-3258

# Bunker Hill Community College Biological Sciences Associate in Sciences

## Medical Professions Option

The Medical Professions Option at BHCC provides students with the technical coursework and laboratory experiences that enable them to successfully transfer and pursue a career in the medical and health professions including medical, veterinary, pharmacy, physical therapy and physician's assistant programs. Students should tailor this option by choosing electives based on the requirements of the programs to which they plan to apply. BHCC has transfer agreements with the UMass system, enabling graduates to enroll in any one of these universities as juniors, without losing credits.

## Degree Requirements

### Science Courses

BIO195	General Biology I
BIO196	General Biology II
BIO207	Cell Biology
CHM201	General Chemistry I
CHM202	General Chemistry II
CHM251	Organic Chemistry I
PHY201 or 251	General or College Physics I
PHY202 or 252	General or College Physics II

### Option Electives (3 courses)\*

Choose from: BIO120, BIO203, BIO204, BIO205, BIO208, CHM252, MAT181, MAT282, NHP180, COM171, SCI221, HON200

\*Please choose your electives based on your career path. (See suggested electives on right side of page)

**Total program credits: 60 – 63**



For students planning to apply to **medical** programs:

Students will need to earn a bachelor's degree, and take the MCAT to apply to medical programs.

**Recommended option electives:** CHM252, BIO208, MAT181

**Additional optional electives:** BIO205

**Physics:** Most medical programs only require general physics (PHY201/202).

For students planning to apply to **veterinary** programs:

Students will need to earn a bachelor's degree, and take the GRE to apply to veterinary programs.

**Recommended option electives:** CHM252, BIO208, MAT181

**Additional optional electives:** BIO205

**Physics:** Most veterinary programs require calculus-based physics (PHY251/252).

For students planning to apply to **pharmacy** programs:

Students may need to earn a bachelor's degree, and take the PCAT to apply to pharmacy programs.

**Recommended option electives:** CHM252, BIO203, BIO205

**Additional optional electives:** BIO204, MAT181, ENG171

**Physics:** Most pharmacy programs require calculus-based physics (PHY251/252).

For students planning to apply to **physician's assistant (P.A.) or physical therapy (P.T.)** programs:

Students will need to earn a bachelor's degree, and take the GRE to apply to P.A. or P.T. programs.

**Recommended option electives:** BIO203, BIO204, MAT181

**Additional optional electives:** NHP180, BIO205

**Physics:** Most P.A. and P.T. programs only require general physics (PHY201/202).

For more information on this option, visit **[bhcc.edu/biologyandchemistry](http://bhcc.edu/biologyandchemistry)** or contact William Hoover, [wlhooover@bhcc.edu](mailto:wlhooover@bhcc.edu), 617-228-3447

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