### 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, 617-228-3258
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

Medical Professions Option

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 or contact William Hoover, wwhoover@bhcc.edu, 617-228-3447