

## Associate in Applied Science

## Biotechnology

### Program Information

Biotechnology is one of the most rapidly expanding areas of the biological sciences. This exciting and ever-changing field offers students the opportunity to be involved in cutting-edge scientific applications and research. This Associate in Applied Science program prepares students for entry-level positions in fields such as pharmaceuticals, forensic science, research laboratories and medical laboratories. Courses provide students with a solid foundation in basic scientific principles as well as mathematics. Students will be exposed to the equipment and techniques necessary to succeed in the field.

Upon successfully completing this program, students should be able to:

- ▼ communicate effectively in a scientific manner;
- ▼ demonstrate an understanding of scientific inquiry and application;
- ▼ perform basic biotechnology procedures; and
- ▼ demonstrate general competency in the field of biotechnology.

### Transfer of Credits

Although this program is designed for immediate career preparation, many credits may transfer to a four-year college or university. Please direct specific questions to a Student Affairs advisor.

*\*Students with previous computer science experience may substitute another computer science course for CSC 115.*

### Credits

#### First Semester

<input type="checkbox"/>	BIO 101	General Biology I	4
<input type="checkbox"/>	BTC 120	Introduction to Biotechnology and Basic Laboratory Techniques	4
<input type="checkbox"/>	CHM 101	College Chemistry I	4
<input type="checkbox"/>	ENG 101	English Composition I	3
<input type="checkbox"/>	MAT 137	College Algebra	<u>3</u>
			18

#### Second Semester

<input type="checkbox"/>	BIO 102	General Biology II	4
<input type="checkbox"/>	CHM 102	College Chemistry II	4
<input type="checkbox"/>	CSC 115	Computer Applications*	3
<input type="checkbox"/>	ENG 122	Business and Occupational Writing	<u>3</u>
			14

#### Third Semester

<input type="checkbox"/>	BIO 211	Principles of Microbiology	4
<input type="checkbox"/>	MAT 201	Statistics	3
<input type="checkbox"/>		Humanities Elective	3
<input type="checkbox"/>		Science Elective	3/4
<input type="checkbox"/>		Social Science Elective	<u>3</u>
			16/17

#### Fourth Semester

<input type="checkbox"/>	BTC 201	Molecular Biology	4
<input type="checkbox"/>	BTC 222	Biotechnology Internship	4
<input type="checkbox"/>	ETH 200	Ethics in the Modern World	3
<input type="checkbox"/>		Science Elective	<u>3/4</u>
			14/15

**Total Credits: 62-64**

### N.J. General Education Component for Biotechnology (A.A.S)

<b>Communication:</b>	ENG 101, ENG 122
<b>Math/Science/Computer Technology:</b>	BIO 101, CHM 101
<b>Social Science:</b>	Social Science Elective
<b>Humanities:</b>	ETH 200
<b>History:</b>	not required
<b>Cultural/Global Awareness:</b>	not required