

Biotechnology, AAS

The greater Kansas City area and specifically Johnson County have numerous biological-, pharmaceutical- and chemical-related formulating, manufacturing, research and testing companies. Many of these facilities employ scientific technicians to support the endeavors of their professional scientists and engineers.

JCCC's science technology program is designed to develop scientific support personnel for the metropolitan area.

This program offers specific knowledge and training designed to provide you with entry-level skills for employment as a technician. It also provides the breadth of background sufficient to encourage change and flexibility.

The biotechnology associate of applied science degree program will prepare students to work in biotechnology laboratories associated with universities, medical centers, private research institutions, and a variety of industrial applications. Upon completion of this 64 hour degree, students will be able to find entry-level or higher positions in diverse fields of biotechnology. Along with basic and more advanced science courses, students will take specialized courses such as laboratory safety and biotechnology methods.

(Major Code 2110; State CIP Code 41.0101)

- Biotechnology (<http://www.jccc.edu/academics/health/biotechnology>)

Associate of Applied Science Degree

First Semester

| | | |
|-------------|--|----|
| ENGL 121 | Composition I* | 3 |
| MATH 130 | Technical Mathematics I* (or higher) | 3 |
| BIOL 135 | Principles of Cell and Molecular Biology | 4 |
| CHEM 122 | Principles of Chemistry* | 5 |
| Total Hours | | 15 |

Second Semester

| | | |
|-------------|--------------------------------|----|
| BIOT 160 | Introduction to Biotechnology* | 2 |
| BIOT 165 | Laboratory Safety* | 1 |
| BIOL 144 | Human Anatomy and Physiology* | 5 |
| PHYS 133 | Applied Physics* | 5 |
| ENGL 123 | Technical Writing I* | 3 |
| Total Hours | | 16 |

Third Semester

| | | |
|-------------------------------------|---|----|
| BIOT 230 | Microbiology for Biotechnology* | 5 |
| BIOL 145 | Human Anatomy and Physiology Dissection* | 1 |
| BIOL 205 | General Genetics* | 4 |
| CHEM 140 | Principles of Organic Biological Chemistry* | 5 |
| Social Science/Economics Elective ^ | | 3 |
| Total Hours | | 18 |

^ See all AAS general education electives (<http://catalog.jccc.edu/degreerequirements/associate-applied-science>)

Fourth Semester

| | | |
|-----------------------|--|----|
| BIOT 260 | Biotechnology Methods* | 5 |
| CIS 124 | Introduction to Computer Concepts and Applications | 3 |
| BIOT 265 | Biotechnology Internship* | 4 |
| Humanities Elective ^ | | 3 |
| Total Hours | | 15 |

^ See all AAS general education electives (<http://catalog.jccc.edu/degreerequirements/associate-applied-science>)

Total Program Hours: 64