

Biotechnology, A.A.S.

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 65-67 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.

Note: Metropolitan Community College students should seek specific counsel from the JCCC program personnel for the appropriate course plan and numbers.

Metropolitan Community College students should refer to Cooperative Program Information (<http://www.jccc.edu/academics/cooperative>).

(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
Physical Education Elective ^		1
Total Hours		17

^ Physical Education Elective (<http://catalog.jccc.edu/spring/degreecertificates/electives/health-and-or-physical-ed-aas>)

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

^ Social Science/Economics Elective (<http://catalog.jccc.edu/spring/degreecertificates/electives/social-sci-econ-aas>)

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

^ Humanities Elective (<http://catalog.jccc.edu/spring/degreecertificates/electives/humanities-aas>)

Total Program Hours: 65