

Biotechnology

Biotechnology

Associate of Science Degree (Career Option)

Program Overview and Opportunities:

This comprehensive, multi-disciplinary program is designed to train biotechnology technicians needed in the areas of medicine, pharmaceuticals, environmental science, agriculture, and forensics. Students will learn to use lab equipment and chemical safety; perform tests; prepare media and reagents; calibrate and maintain equipment; maintain documentation on lab protocols and procedures; collect, analyze, and report data; perform laboratory tasks related to DNA technology and protein chemistry. This program will develop skilled professionals with impressive hands-on laboratory skills who can use scientific principles to solve problems, think critically, learn independently, communicate effectively, and work with other researchers as a team to successfully solve problems. In addition to basic courses in general biology, microbiology, general chemistry, and organic chemistry, students will take specialty courses in genomics, proteomics, and bioethics.

According to the Bureau of Labor Statistics, biotechnological research and development will likely continue to drive employment growth in the biological sciences area. An advanced degree is usually required for employment. This Biotechnology A.S. with career option degree is transferable. 2+2 agreements are on record with Briar Cliff University, Buena Vista University, and the University of Northern Iowa.



Biotechnology Associate of Science Degree

Course #	Title	Credits
MAT 121	College Algebra	4
CHM 166	General Chemistry I	5
BIO 116	General Biology IB	4
ENG 105	Composition I	3
CHM 176	General Chemistry II	5
BIO 117	General Biology IIB	4
ENG 106	Composition II	3
CHM 132	Intro to Organic and Biochemistry	4
BIO 186	Microbiology	4
	General Education Elective (category C or D)	3
BIO 147	Genetics	4
BIO 240	Biotech I-Genomics	4
CSC 110	Introduction to Computers	3
SPC 112	Public Speaking	3
BIO 241	Biotech II - Proteomics	4
BIO 242	Issues in Biotechnology	3
	General Education Electives (category C or D)	9
TOTAL DEGREE CREDITS		69

Are You a Part-time Student?

All of these courses can be taken on a part-time basis

See course descriptions in the back of the catalog for more detailed information about course prerequisites and co-requisites.

Please see an advisor to ensure correct course sequence.

Program Advisors

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The courses listed above are grouped in the order that they should be taken each semester. Please see a biotechnology program advisor to ensure correct course sequence.