

Biotechnology

Associate Degree • Delaware Technical & Community College • www.dtcc.edu

Biotechnology associate degree graduates are prepared for entry-level employment in a variety of laboratory settings. They analyze and interpret data using their knowledge of biological methods, laboratory techniques, and modern instrumentation. Students acquire a theoretical and practical education in various aspects of biology and chemistry that can be applied to diverse careers in the medical, environmental, industrial, and agricultural fields.

What You'll Learn...

- Microbiology, molecular biology, biochemistry, organic & analytical chemistry
- Commonly used laboratory practices and safety procedures
- DNA technology
- Analysis of biochemical data
- Current analytical techniques

What You'll Earn...

- The flexibility to choose a position in a research, service, or environmental laboratory or seek employment with a chemical or pharmaceutical company
- Strong status in the job market—biotechnology grads are in demand regionally and nationally
- Relevant work experience may apply to curriculum requirements
- A foundation for further education and enhanced career options

What You Can Do...

Bioscience technicians work in:

- Industrial laboratories
- Research laboratories
- Public health laboratories
- Clinics

BIOTECHNOLOGY

This program provides a career path for students with an interest in science and how things work. Biotechnology is the use of living organisms or biological systems to create or modify products or processes. Using yeast to make bread or beer is an application of biotechnology that dates back thousands of years. More modern examples include DNA fingerprinting, developing strains of pest-resistant crops, producing specialized medicines, and altering bacteria for industrial waste cleanup.

Students in the biotechnology associate degree program acquire a strong foundation of knowledge and skills that enables them to perform complex laboratory procedures and analyze data for research and testing purposes. The curriculum includes four semesters of science, math, computer, and core courses plus an internship at a regional laboratory or research facility. Many courses are transferable to four-year institutions for students who wish to pursue a bachelor's degree in a related field.

PROGRAM FACTS

- Exciting career opportunities and well-paid positions
- Increasing demand from regional employers for technically skilled workers

FOR MORE INFORMATION

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REQUIRED TECHNICAL COURSES

BIO 150	Biology I
BIO 151	Biology II
BIO 250	Principles of Microbiology
BIO 260	Biotechnology I
BIO 261	Biotechnology II
BIO 270	Biotechnology Internship
CHM 111	Intro to Organic and Biochemistry
CHM 150	Chemical Principles I
CHM 151	Chemical Principles II
CHM 250	Analytical Chemistry I
CHM 251	Analytical Chemistry II

OTHER COURSES

CIS 107	Intro to Computers & Applications
ENG 121	Composition
ENG 122	Technical Writing & Communication
ENG 124	Oral Communications
MAT 153	College Math and Statistics <i>or</i>
MAT 181	Algebra & Trigonometry I Social Science Electives (2)

HOW TO BEGIN –

1. Obtain, complete, and submit an Application for Admission with a \$10 non-refundable fee to the Admissions Office. Make check payable to Delaware Technical & Community College. Applications are available via the Web (www.dtcc.edu/admissions), by phone or mail, or from a high school counselor.
2. Develop a financial plan to identify resources, such as financial aid, SEED, and other scholarships, to help pay for college.
3. Request that your official high school, GED, and/or college transcript be sent immediately to the Admissions Office.
4. Participate in the college testing and placement program, if required. Official scores from SAT/ACT tests or previous college credit may satisfy this requirement.
5. Meet for advisement to begin an educational plan and select courses for registration.