



**BioScience is in the news almost every day! It encompasses the medical and dental fields. It is a part of feeding our world and taking care of pets and livestock. Problems related to the environment and solving crimes are also part of the BioScience field. If you love to learn by doing, this lab-based program will expose you to all of these fields.**

### **Curriculum Highlights:**

This 2-year program emphasizes lab skills usually only practiced in college or out in the field. These include micropipetting, cell culturing of bacteria, making serial dilutions, understanding and performing tasks utilizing aseptic technique, PCR and gel electrophoresis, and spectrophotometry. Students will learn these skills as they explore the world of anatomy/physiology and advanced biology (BioScience).

### **Benchmarks:**

- Demonstrate Scientific Method
- Conduct Experiments
- Laboratory Safety and Maintenance
- Instrument Analysis
- Chemical Materials Handling and Sampling
- Physical Properties Management
- BioHazard Storage, Handling, and Disposal
- Basic Microbiology
- Diagnostic Testing

- Biochemical Technology
- Molecular Biology Technology
- Cell Culturing Protein Bioseparation Methods
- Fermentation Technology
- Microbiology for BioTechnology
- Bioethics
- Introduction to Industry
- Technical Writing and Documentation

### **Career Focus:**

You will be prepared for further education in any science/laboratory field. Many students participating in this program focus on degrees, such as:

#### **2 Year Degrees**

- Health Science Technician
- Microbiology Technician
- Medical Assistant
- Quality Assurance Technician
- Forensic Lab Technician
- Health Care Assistant

#### **4+ Year Degrees**

- Human/Animal Medicine
- Genetics
- Biologist
- Pathologist
- Microbiologist
- Molecular Biologist

The Delaware Area Career Center, in partnership with community, is an innovative model for developing lifelong learners, quality leaders, and critical thinkers for the dynamic and global environment.

## Career Outlook:

As of July 31, 2018, Salary.com has reported that the average salary for a biotechnologist in the United States is \$95,171\*. Bioscience careers continue to be in demand; the 2018 BioOhio report predicts that there will be a creation of 5,278 jobs in Ohio.\*

According to the Bureau of Labor statistics\*\*, many of the majors or graduates from the bioscience program move on to highly sought after careers. These include:

- Physician's Assistant: projected to grow 37% from 2016-2026.
- Veterinarian: projected to grow 19% from 2016-2026
- Physicians: projected to grow 13% from 2016-2026
- Nurse Practitioner: projected to from 35% from 2016-2026
- Forensic Science: projected to grow 17% from 2016-2026
- Medical Lab Science: projected to grow 16% from 2016-2026

\*BioOhio, "Ohio BioScience Growth Report" 2018.

\*\*US Department of Labor Statistics, "Occupational Outlook Handbook"

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|---|--|
| Campus Location                             | South Campus   |
| Grade Level                                 | Junior and Senior  |
| 2018/2019 Fees*                             | Bioscience 1 - \$199.00<br>Bioscience 2 - \$319.00   |
| High School Credits Available               | Bioscience 1 - Chemistry (1 credit)<br>Elective (2 credits)<br>Bioscience 2 - Advanced Biology (1 credit)<br>Anatomy/Physiology (1 credit)<br>Statistics (A) College Credit Plus<br>(if qualified)<br>or (B) 1 credit (high school math) |
| Accreditation (North Central State College) | Introduction to BioScience 1010  |
| Industry Experience                         | Creating a Scientific Resume<br>Creating Scientific Research Papers<br>Multiple Scientific Approaches<br>HIPAA/OSHA/Blood Bourne Pathogen certifications   |
| Technology Integration                      | Lab Equipment for scientific analysis<br>Microbiology Techniques<br>Biochemistry Techniques<br>Using technology to analyze, interpret, and report data<br>Microscopic Observations   |

*\*This program participates in the One-to-One Chromebook program. An additional fee will be applied unless the student chooses to bring his/her own technology. Fees are subject to change. See our web site for a breakdown of individual and additional costs.*

### Instructor:

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## Enroll online at [DelawareAreaCC.org/DACCApp](http://DelawareAreaCC.org/DACCApp)

This document is provided to you as an overview of the Delaware Area Career Center program. The information is not intended to be a binding contract and is subject to change at any time. For more information or clarification, please see the program instructor.

The Delaware Area Career Center (DACC) affirms that equal opportunities are offered without regard to race, color, religion, sex, military status, national origin, disability, age, and ancestry of person. For additional information visit our website at [www.DelawareAreaCC.org](http://www.DelawareAreaCC.org)