

# CAREER TECHNICAL EDUCATION PATHWAY: Biotechnology (C20100HS)



## Career & College Promise (CCP)

CCP provides opportunities for eligible NC high school students to take tuition-free, college courses for dual credit (some students may have to pay for textbooks and materials). Taking CCP courses accelerates completion of college certificates, diplomas, applied associate degrees that provide entry-level job skills, and associate degrees that lead to transfer within the UNC System of 4-year colleges and universities and many private institutions.

## General Admission Requirements

- College CCP Admissions Application
- High School Transcript
- Verification Form

## Biotechnology Pathway

### Eligibility Requirements

- High School Junior or Senior
- Unweighted GPA of 2.8 or higher, **OR**, demonstrate college readiness in English, reading and math on approved assessments.
- The GPA may NOT be waived for this pathway.



## About the Biotechnology Pathway:

This pathway is a set of courses that students can take to earn a certificate toward the Associate of Applied Science degree in Biotechnology. These courses prepare students with an understanding of laboratory procedures and applications of scientific principles that assist biologists/chemists in a variety of fields including agriculture, pharmaceutical, environmental, clinical, industrial products, etc.

## Median Annual Wage for NC Clinical Lab Technologists and Technicians \$50,730

NCCareers.org

## You will learn:

- How to design and conduct basic laboratory experiments
- How to operate specialized laboratory equipment to study biological systems
- Communicate scientific findings

## Possible Job Titles:

- Research assistant to biologists and chemists
- Quality control and assurance technician
- Laboratory Technician or laboratory analyst

## Possible Employment Opportunities:

- Pharmaceutical Manufacturing Plants
- Environmental Companies
- Industrial Manufacturing Plants
- Agriculture Businesses
- Medical Companies

## Biotechnology Certificate

Sem	Title	Class	Lab	Credit
FA/SP/SU	BIO 111 General Biology	3	3	4
FA/SP/SU	BIO 112 General Biology II ( <i>PreReq: BIO 111</i> )	3	3	4
FA	BTC 181 Basic Lab Techniques	3	3	4
FA/SP/SU	BTC 150 Bioethics	3	0	3
<b>Total Semester Hours Credit for Certificate</b>				<b>15</b>

For more information, contact: Trish Holsten, Secondary Partnerships Director  
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wilsoncc.edu | (252) 291-1195 | 902 Herring Avenue, P.O. Box 4305 Wilson, NC 27893

# CONNECTING HIGH SCHOOL, COLLEGE, AND CAREER



## High School (electives)

### High School

#### COMPLETE GRAD REQ:

- English (4), Math (4), Science (3), Social Studies (4), Health/PE (1), CCP electives

#### SUGGESTED HS COURSES:

- Any elective related to biotechnology

## CCP Dual Enrollment (college/HS concurrently)

### Community College Biotechnology CCP Pathway

#### CCP JR and SR YEARS

- Basic Lab Techniques
- General Biology I and II
- Bioethics

## After High School (post graduation)

### Community College Biotechnology AAS Degree

#### GEN ED

- English, Math, Psychology or Sociology, Critical Thinking

#### BIOTECHNOLOGY CLASSES:

- General Microbiology
- Lean Manufacturing
- Genetics
- Bioprocess Techniques
- Cell Culture
- Manufacturing Quality Control
- Biotech Lab Experience
- Intro to Chemistry I and II, or, Gen Chemistry I and II
- cGMP Quality Systems

#### ADDITIONAL REQUIRED CLASSES:

- College Student Success
- Intro to Computers

