

CTE 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 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 portion of 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 Life, Physical, and Social Science Technicians \$62,450

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	BTC 150 Bioethics	3	0	3
Total Semester Hours Credit for Certificate				15

*some classes in an online format might require purchases of household/kitchen items for the lab portion

For more information, contact: Trish Holsten, Secondary Partnerships Director

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High School (electives)

High School

COMPLETE GRAD REQ:

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

SUGGESTED HS COURSES:

- Any elective related to biotechnology
- CCP electives

CCP Dual Enrollment (college/HS concurrently)

WCC Biotechnology CCP Pathway

CCP JR and SR YEARS SUGGESTED:

- BTC 181 Basic Lab Techniques
- BIO 111 General Biology I
- BIO 112 General Biology II
- BTC 150 Bioethics

After High School (post-graduation)

WCC Biotechnology AAS Degree

GENERAL ED

- English, Math, Psychology or Sociology, Critical Thinking

BIOTECHNOLOGY CLASSES:

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

ADDITIONAL REQ CLASSES:

- College Student Success
- Intro to Computers

