

## Biotechnology Program

### Students should consider this pathway if they...

- Enjoy science and math classes
- Are considering going to a 4-year university
- Have an interest in the sciences, engineering, manufacturing, medicine, and/or healthcare
- Have an interest in different kinds of scientific and/or medical research
- Have an interest pharmaceuticals and manufacturing medicine
- Enjoy working/taking classes in a lab setting
- Are intrigued with testing/applying research and studies
- Are interested in finding cures for diseases
- Have good analytical judgment and the ability to work under pressure
- Are good at problem solving
- Pay close attention to detail
- Enjoy hand-ons activities and have good manual dexterity

### Required High School Courses

- English 9, 10, 11, 12
- Math 1, 2, 3
- Spanish I, II
- World History
- Civics
- Amer. History
- Financial Literacy
- Earth/Environ
- Biology
- Chemistry
- Health and PE

### Program Options for Students

Option 1	Required Courses* (University Transfer Component Courses)	Required Courses** (University Transfer Courses)
Biotechnology Diploma ( 46 hours)	ENG 111 Writing and Inquiry ENG 112 Writing/Research PSY 150 General Psychology BIO 111 General Biology I BIO 112 General Biology II CHM 151 General Chemistry I MAT 171 Precalculus Algebra	BIO 250 Genetics BIO 275 Microbiology BTC 181 Basic Lab Techniques ACA 122 College Transfer Success BIO 168 Anatomy and Physiology I BIO 169 Anatomy and Physiology II
Option 2	Required Courses* (University Transfer Component Courses)	Required Courses** (University Transfer Courses)
Biotechnology Associate of Applied Science (67 hours)	All of the Diploma courses above and...  MAT 152 Statistical Methods MAT 172 Precalculus Trigonometry CHM 152 General Chemistry II SOC 210 Introduction to Sociology PHI 240 Introduction to Ethics	All of the Diploma courses above and...  HEA 110 Personal Health/Wellness SPA 111 Elementary Spanish I

#### \*University Transfer Component Courses:

A North Carolina community college student who satisfactorily completes, with a grade of "C" or better, courses identified in the Universal General Education Transfer Component will receive credit applied toward the university's lower-division general education course requirements, subject to the following distribution limit: maximum of 6 hours in English Composition, 9 hours in Humanities/Fine Arts/Communications, 9 hours in Social/Behavioral Sciences, 8 hours in Mathematics, and 8 hours in the Natural Sciences.

#### \*\*University Transfer Courses:

A North Carolina community college student who satisfactorily completes a transfer course that is not designated as a Universal General Education Transfer Component course will receive transfer credit for the course. The receiving institution will determine whether the course will count as general education, pre-major, or elective credit.

Note: To be eligible for the transfer of credits to a NC University, the student must graduate with an Associate in Arts (AA) or Associate in Science (AS) degree and have an overall GPA of at least 2.0 on a 4.0 scale and a grade of "C" or better. Students who do not complete the degree are eligible to transfer credits on a course-by-course basis.

### Options after Graduating

- Enter the workforce—both the industry and government sectors, including jobs as research assistants, laboratory technicians, and quality control technicians in bioprocessing or biomanufacturing
- Enroll in a 4-year university (transferring credit is decided by the bachelor degree granting institution)

