

CAREER FIELD: Health Science
PATHWAY: Medical Bioscience
PROGRAM: **Biotechnology**
 60-63 Credit Hours - Associate of Applied Science

BTN.S.AAS

HIGH SCHOOL	Freshman	English I (1)	Algebra & Geometry or Algebra I (1)	Physical Science (1)	Social Studies (1)	Health (.5) Physical Education (.5)	Career Field Exploration	Fine Arts/Foreign Language/Business Elective (1)
	Sophomore	English II (1)	Geometry or Algebra II (1)	Biology or Life Science (1)	US History (1)	Technology Elective (1)	Career Pathway Foundation	Fine Arts/Foreign Language/Business Elective (1)
	Junior	English III (1)	Algebra II / Adv Algebra II & Trigonometry (1)	Chemistry (1)	US Govt (.5) Economics and Financial Literacy Social Studies Elective (.5)	Career Tech Health Science (1)	Career Tech Health Science (1)	Career Tech Health Science (1)
	Senior	English IV (1)	College Math or Calculus (1)	Advanced study in Life or Physical Science OR Earth/Space Science (1)	Psychology, Sociology or Social Studies Elective (1)	Career Tech Health Science (1)	Career Tech Health Science (1)	Career Tech Health Science (1)

Take ACT, SAT, or required Sinclair placement test. Visit Sinclair academic advising. Earn high school diploma. Complete pathway as designed.

COLLEGE	1st Semester	SCC 1101 First Year Experience (1)	BTN 1110 Biotechnology & Bioethics (3)	BTN 1120 Laboratory Safety & Regulatory Compliance (2)	• MAT 1470 College Algebra (4)	• ENG 1101 English Composition I (3)	• OTM Arts & Humanities Elective (3)	
	2nd Semester	BTN 1130 Biological Reagents Preparation (3)	BIO 1107 Human Biology (3)	BIS 1120 Introduction to Software Applications (3)	CHE 1111 Introduction to Chemistry I (4) OR • CHE 1211 General Chemistry I (5)		• OTM Social & Behavioral Sciences Elective (3)	
	3rd Semester	BTN 2210 Protein Purification & Analysis (4)	BTN 1140 Cell Culture (2)	• COM 2111 Effective Public Speaking (3)	• BIO 1111 General Biology I (4) AND • BIO 1211 General Biology II (4) OR • BIO 1171 Principles of Biology I (5) AND • BIO 1272 Principles of Biology II (5)			
	4th Semester	BTN 2230 Molecular Biology Techniques (4)	BTN 2220 Microbiology & Fermentation Methods (3)	BTN 1201 Biotechnology Careers (2) OR BTN 2700 Biotechnology Internship (2)	• OTM Arts & Humanities Elective (3)			

• = Courses guaranteed to transfer to Ohio's public institutions of higher education

Indicates eligible college course opportunities via Proficiency credit or Articulated Award credit.

■ Indicates Career-Technical Assurance Guides (CTAG)-approved transfer credit. The high school or career center is responsible for sending the proper documentation, along with the Verification of Course/Program Completion form to the college in order for credits to be posted on a student's transcript.

Required Courses (credit hours)

Recommended Elective Courses

Please note: This template does not provide department approved course sequences for students to follow. That is, the courses may be presented out of order. It is best for students to consult with an academic advisor in order to plan a semester by semester course schedule in order to meet the requirements for their certificates and degree programs.