

# Biomedical Science

## Curriculum Plan 2022-2023



Area of Concentration: J0

CTSO: HOSA

### Program Courses

EMIS Course Code	Course Name	Grade	Is this course a CTAG?
072110	Principles and Practices of Biomed Tech	10	No
072040	Human Anatomy & Physiology	11	No
072150	Medical Terminology	11	Yes
072130	Genetics of Disease	12	No
072105	Health Science Capstone	12	No

### Industry Credentials/Certifications

Industry Credentials Offered	ODE Points Available	Completed during Grade
Sterile Processing Certification	12	12

### College Credit Opportunities

Course Name	College	Credit Hours	Completed during Grade
CTMT001 Medical Terminology	CTAG	3	11
ALH 1101 Introduction to Healthcare Delivery	Sinclair Community College	2	12 (may go to 10)
ALH 1130 Basic Life Support Training for Healthcare Providers	Sinclair Community College	1	11
BIO 1107 Human Biology	Sinclair Community College	3	11
BTN 1120 Laboratory Safety and Regulatory Compliance	Sinclair Community College	2	12

### Work-Based Learning Opportunities

CTSO Competitions	Miami Valley South
On the job placement opportunities	

### Tasks

- Analyze operational or research data.
- Develop computer or online applications.
- Develop data analysis or data management procedures.
- Maintain current knowledge related to work activities.
- Enter information into databases or software programs.
- Search files, databases or reference materials to obtain needed information.
- Confer with coworkers to coordinate work activities.
- Prepare research or technical reports.
- Maintain operational records.
- Format digital documents, data, or images.
- Train personnel.

# BIOMEDICAL SCIENCE

## Program of Study

Aligned with Sinclair – Clinical Laboratory Technology CLT.S.AAS

<b>Secondary</b>	9	English 9	Algebra I or Geometry	Physical Science	World History	PE/PE	Health/ Career Exploration	Elective
	10	English 10	Geometry or Algebra II	Biology	U.S. History	Elective	Principles & Practices of Biomed Tech 072110	
	11	English 11	Algebra II or Pre-Calculus	Chemistry or Environmental Science	American Government	Elective	Human Anatomy & Physiology 072040	<b>Medical Terminology 072150</b>
	12	English 12	Adv Math	Elective	Elective	Elective	Genetics of Disease 072130	Health Science Capstone 072105

<b>Post-Secondary</b>	Program Prerequisites	BIO 1121 Human Anatomy & Physiology I			ALH 1101 Intro to Healthcare Delivery		
	Fall Year 1	CLT 1200 Intro to Clinical Lab	CLT 1203 Lab for Intro to Clinical Lab	CHE 1311 College Chem I	CHE 1351 Lab for College Chem I	BIO 1222 Human Anatomy & Physiology II	ENG 11101 English Comp I
	Spring Year 1	CLT 2110 / 2113 Urine & Body Fluid / Lab		CLT 2410 / 2413 Clinical Microbiology & Parasitology / Lab	CHEM 1321 / 1361 College Chem II / Lab		ALH 2220 Pathophysiology
	Summer Year 1	BIO 1171 Principles of Biology I					
	Fall Year 2	CLT 2210 / 2213 Hematology / Lab	CLT 2310 / 2313 Clinical Chemistry / Lab	CLT 2510 / 2513 Immunochemistry		COM 2206 Interpersonal Comm	PSY 1100 General Psychology
	Spring Year 2	CLT 2810 CLT Practicum			MAT 1450 Intro Statistics		

<b>Key</b>	Required Course	Recommended Elective Courses	High School Career-Technical Courses <b>Bold =College Credit Opportunity</b>
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Dayton Public Schools does not discriminate on the basis of race, color, national origin, sex, disability, or age for participation in any program or activity. Lack of English language proficiency will not be a barrier to admission and participation in career-technical education programs.