Biomedical Science
Curriculum Plan 2022-2023

DAYTON PUBLIC SCHOOLS
Career Technical Education

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

Secondary

Grade							
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	**Medical Terminology 072150**
12	English 12	Adv Math	Elective	Elective	Elective	Genetics of Disease 072130	Health Science Capstone 072105

Post-Secondary

Term						
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 Immunohematology		COM 2206 Interpersonal Comm	PSY 1100 General Psychology
Spring Year 2	CLT 2810 CLT Practicum			MAT 1450 Intro Statistics		

Key	Required Course	Recommended Elective Courses	High School Career-Technical Courses **Bold =College Credit Opportunity**