



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
072120	Biochemistry of Health	11	No
072125	Biotech of Health and Disease	12	Yes
072130	Genetics of Disease	12	No

Industry Credentials/Certifications

Industry Credentials Offered	ODE Points Available	Completed during Grade		
OSHA-10	1	10		

College Credit Opportunities

Course Name	College	Credit Hours	Completed during Grade	
CTBTC001 Biotechnology Principles	CTAG	3	11	
BTN 1120 Laboratory Safety and Regulatory Compliance	Sinclair Community College	2	11	
BIO 1107 Human Biology	Sinclair Community College	3		

Work-Based Learning Opportunities

On the job placement opportunities	
CTSO competitions	

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.

BIOTECHNOLOGY

Program of Study Aligned with Sinclair – Biotechnology BTN.S.AAS

	9	English 9	Algebra I or Geometry	Physical Science		World History		PE/PE	Health/ Career Exploration	Elective
ıdary	10	English 10	Geometry or Algebra II	Biology	Biology		story	Elective	Prin and Prac of Biomed Tech 072110	
Secondary	11	English 11	Algebra II or Pre-Calculus	or Environme	Chemistry or Environmental Science		can ment	Flective		
	12	English 12	Adv Math	Elective				Elective	Biotech of Health and Disease 072125	Genetics of Disease 072130

	Fall Year 1		IO 1107 an Biology		BIO 1111 Gen Biology I AND BIO 1211 General Bio II OR BIO 1171 Prin of Bio I AND BIO 1272 Prin Bio II		SCC 1101 First year Experience		
ndary	Spring Year 1	BTN 1110 Biotechnology & Bioethics	BTN 11 Lab Safe Regulat Complia	ety & ory	Select COM 2206 Inter COM 2211 Ef Spea COM 2225 Sma	personal Comm fective Public Iking	BIS 1120 Intro to Software Apps	OR	
Post-Secondary	Summer Year 1	BTN 1140 Cell Culture			BTN 1130 Biological Reagents Preparation		CHE 1111 Intro to Chem OR CHE 1211 General Chem I		
	Fall Year 2	MAT 147 College Alg			ENG 1101 glish Comp I	BTN 2210 Protein Purificati Analysis	on &	Elective OT36: Arts & Humanities	
	Spring Year 2	BTN 222 Microbiolog Fermentation I	oiology & Mole		BTN 2230 ecular Biology Tech	Elective OT36: Arts & Humanities		Elective OT36: Social & Behavioral Sciences	

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