



School District

Biomedical Sciences

HS & Web Address

Minimum HS Graduation Requirements		PROGRAM OF STUDY MATRIX TEMPLATE: MIDDLE - HIGH SCHOOL – POSTSECONDARY						CTE Pathway Requirements	
	Grade	English	Math	Science	Social Studies	Additional Required Courses	Career & Technical Courses	Other Required or Elective Courses	
Student Success Plans outlining career goals should be utilized through the advisement process.									
Middle School	7	ELA 7	Math 7	Science 7	Social Studies 7			Electives	
	8	ELA 8	Math 8	Science 8	Social Studies 8			Electives	
Secondary	9	ELA 9	Algebra I	NGSS Aligned Physical/Integrated Science	Civics/Geography	World Language I	Principles of Biomedical Sciences (PBS)	<p>This matrix represents a <i>sample</i> program of study. The LEA's program of study <u>must</u> be reflective of <u>local/state</u> high school graduation requirements and college entrance requirements.</p> <p>This matrix should be reflective of the school's <u>course sequence</u> and requirements.</p>	
	10	ELA 10	Algebra II	NGSS Aligned Biology	Economics/Personal Finance	World Language II	Human Body Systems (HBS)		
	11	ELA 11	Geometry	NGSS Aligned Chemistry	US History	Physical Education (≥1 Credit)	Medical Interventions (MI)		
	12	ELA 12	Trigonometry/Pre-Calculus	NGSS Aligned Physics		Health Education (≥ 0.5 Credit)			
Postsecondary	13	The Department of Education has negotiated articulation agreements with Delaware Technical Community College's Emergency Medical Certificate, Medical Assistant, Human Services, Practical Nursing, Business Administration (University of Delaware transfer option), and Electronics Engineering Technology (biomedical option) programs.						All programs of study should meet the students' career goals with regard to required degrees and/or certifications. Required courses will vary by PS institution.	
	14								
	15	Continue courses in the area of specialization.							
	16								

Additional Learning Opportunities

Early Career Opportunities:	Early College Opportunities:	Industry Recognized Certifications/Licenses:	Student Organization:
<input type="checkbox"/> Cooperative Education <input type="checkbox"/> Internship <input type="checkbox"/> Other: <u>Other Early Career Opportunities</u>	<input type="checkbox"/> Dual Enrollment <input type="checkbox"/> Advanced Placement <input checked="" type="checkbox"/> Articulated Credit <u>Delaware Technical Community College</u> BIO110 – Essentials of Anatomy and Physiology <input type="checkbox"/> Pre-Apprenticeship <input type="checkbox"/> Other: <u>Other Early College Opportunities</u>	<input type="checkbox"/> <u>Certification/License</u> <input type="checkbox"/> <u>Certification/License</u>	<input checked="" type="checkbox"/> <u>HOSA – Future Health Professionals</u>

Sample Careers By Educational Level

Employment Opportunities (Upon Completion of HS Pathway)	Technical Training or Associate Degree	Bachelor's Degree	Master's Degree or Above
	Acupuncturist & Oriental Medicine Biomedical Equipment Sales Chiropractic Diagnostic medical sonography Emergency Medical Technician/Paramedic Medical Assistant Medical Imaging & Radiography Medical Laboratory Technologist/Lab Specialist Occupational Therapy Assistant Pharmaceutical Sales Physical and Therapy Assistant Radiologic Technician Radiologic Technician Respiratory Care Therapist Surgical Technician Veterinarian Assistant/Technician	Cardiovascular Technologist Dietary Manager Food Industry & Technology Healthcare Administrator Industry-based Learning Information Privacy Officer Medical Coder Medical Editor/Writer Pathologists' Technician Physiotherapy Product Development & Testing Research Assistant Research Technician Secondary Teaching	Biochemist Bioinformatics Scientist Biomedical Chemist Chiropractor Dentist Forensic Pathologist Geneticist Medical Doctor Microbiologist Molecular Biologist Osteopathy (Bone Specialist) Pathologist Podiatrist Psychologist Reproductive Technologies Toxicologist Veterinarian

*May require higher education depending on job responsibilities.

Feeder Middle School(s):

Colleges/Universities and Articulated Credit Agreements:

Articulation agreements/Memorandums of Understanding:
 Delaware Technical and Community College – BIO110

LEA Additional Graduation Requirements: