



School District

Plant Science

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		Exploring Agriscience 7	Electives	
	8	ELA 8	Math 8	Science 8	Social Studies 8		Exploring Agriscience 8	Electives	
Secondary	9	ELA 9	Algebra I	NGSS Aligned Physical/Integrated Science	Civics/Geography	World Language I	Foundations of Plant Science (FPS)	<p>This matrix represents a <i>sample</i> program of study. The LEA's program of study <u>must</u> be reflective of local/state high school graduation requirements and college entrance requirements. 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	Plant and Soil Systems (PSS)		
	11	ELA 11	Geometry	NGSS Aligned Chemistry	US History	Physical Education (≥1 Credit)	Plant Systems Management & Sustainability (PSMS)		
	12	ELA 12	Pre-Calculus or Statistics	NGSS Aligned Earth/Physical Science		Health Education (≥ 0.5 Credit)			
Postsecondary	13	The Department of Education is currently negotiating articulation agreements with Delaware Technical Community College (DTCC), Delaware State University (DSU), and University of Delaware (UD)).						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:	<input type="checkbox"/> Dual Enrollment <input type="checkbox"/> Advanced Placement <input checked="" type="checkbox"/> Articulated Credit <u>DTCC, DSU, and UD: In Progress</u> <input type="checkbox"/> Pre-Apprenticeship <input type="checkbox"/> Other:	<input checked="" type="checkbox"/> Certification/License: <u>Pesticide Applicator Certification – Private Applicators</u> <input type="checkbox"/> Certification/License	<input checked="" type="checkbox"/> <u>FFA</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
Pesticide Handlers, Sprayers, & Applicators Ag Equipment Operators	General & Operational Managers Landscaping & Grounds Workers First Line Supervisors of Landscape Floral Designers	Career & Technical Education Teacher – Secondary Soil & Plant Scientist Precision Ag Technician Precision Instrument and Equipment Repairers, All Other Life, Physical, and Social Science Technicians	Farmland & Home Management Advisors Biological Technicians Microbiologist

*May require higher education depending on job responsibilities.

Feeder Middle School(s):

Colleges/Universities and Articulated Credit Agreements:

The Department of Education is currently negotiating articulation agreements with Delaware Technical Community College (DTCC), Delaware State University (DSU), and University of Delaware (UD).

LEA Additional Graduation Requirements: