

School District

Agricultural Structures and Engineering

HS & Web Address

Minimum HS Graduation Requirements			P	PROGRAM OF STUDY MATRIX TEMPLATE: MIDDLE - HIGH SCHOOL - POSTSECONDARY CTE Pathv							
	Grade	English	Math	Science	Social Studies	Additional Required Courses	Career & Techni Courses	cal	Other Required or Elective Courses		
		Student Success Plans outlining career goals should be utilized through the advisement process.									
dle ool	7	ELA 7	Math 7	Science 7	Social Studies 7		Exploring Agriscien	Exploring Agriscience 7			
Middle School	8	ELA 8	Math 8	Science 8	Social Studies 8		Exploring Agriscien	ce 8	Electives		
Secondary	9	ELA 9	Algebra I	NGSS Aligned Physical/ Integrated Science	Civics/Geography	World Language I	Fundamentals of Agricultura and Engineering		This matrix represents a sample program of study. The LEA's program		
	10	ELA 10	Algebra II	NGSS Aligned Biology	Economics/ Personal Finance	World Language II	Structural Systems in A	of study <u>must</u> be			
	11	ELA 11	Geometry	NGSS Aligned Chemistry	US History	Physical Education (≥1 Credit)	Essential Skills in Agricultural Engineering	Structures and	requirements and college entrance requirements.		
	12	ELA 12	Pre-Calculus or Statistics	NGSS Aligned Earth/Physical Science		Health Education (≥ 0.5 Credit)			This matrix should be reflective of the school's course sequence and requirements.		
Postseconda ry	13	Students completing the Agricultural Structures and Engineering program of study will receive credentials for the NCCER Core Curriculum coursework (72 hours) and will be granted advanced placement in Delaware registered apprenticeship programs through the adult education divisions of the New Castle County, Polytech, and Sussex Technical systems. Qualifying apprenticeable trades include: carpentry, construction laborer, electrician, masonry, plumbing, and pipe fitting.									
	14	The Department of Education is currently negotiating articulation agreements with Delaware Technical Community College (DTCC).									
Pos	15	Continue courses in the area of specialization.							and/or certifications. Required courses will		



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						
*Carpenter	Electricians	Agricultural Engineers	Farm and Home Management Advisors						
Cement Masons and Concrete Finishers	*First-Line Supervisors of Construction Trades	Agricultural Inspectors	Agricultural Sciences Teachers,						
Drywall and Ceiling Tile Installers	Heating, Air Conditioning, and Refrigeration	Construction Managers	Postsecondary						
*Operating Engineers and Other Construction	Mechanics and Installers	Career/technical education teachers, secondary	Engineering Teachers, Postsecondary						
Equipment Operators	Plumbers, Pipefitters, and Steamfitters	school							
Cabinetmakers and Bench Carpenters	Welders, Cutters, Solderers, and Brazers	Electrical Engineers							
*Construction and Building Inspectors		Materials Engineers							
Occupational Health and Safety Technicians		Occupational health and safety specialists							
Structural Iron and Steel Workers									

^{*}May require higher education depending on job responsibilities.

Feeder Middle School(s):

Colleges/Universities and Articulated Credit Agreements:



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LEA Additional Graduation Requirements: