



School District

Environmental and Natural Resource 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	Natural Resources and Ecology	<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.</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	Environmental Science Issues		
	11	ELA 11	Geometry	NGSS Aligned Chemistry	US History	Physical Education (≥1 Credit)	AP Environmental Science		
	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 Wesley College (WC).						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 checked="" type="checkbox"/> Internship <input type="checkbox"/> Other: <u>Other Early Career Opportunities</u> Students will have the opportunity to participate in an organized internship program through the Delaware Department Natural Resources and Environmental Control (DNREC). Students will earn a certificate of completion upon successful completion of the internship.	<input type="checkbox"/> Dual Enrollment <input checked="" type="checkbox"/> Advanced Placement <u>AP Environmental Science</u> <input checked="" type="checkbox"/> Articulated Credit <u>DTCC, DSU, and WC: In Progress</u> <input type="checkbox"/> Pre-Apprenticeship <input type="checkbox"/> Other:	<input type="checkbox"/> Certification/License <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
Forest & Conservation Assistant Forest Fire Inspectors & Prevention Specialist Log Graders & Scaler Hazardous Materials Removal Worker Occupational Health and Safety Technician Recreation Worker	Agricultural & Food Science Technician Environmental Science & Protection Technician Water & Wastewater Treatment Plant & System Operator	Biological Technician Career & Technical Education Teacher – Secondary Conservation Scientist Environmental Engineer Environmental Scientists & Specialist Fish & Game Warden Hydrologist Microbiologist Natural Sciences Manager Occupational Health & Safety Specialist Pollution Prevention & Control Technician Hazardous Materials Technicians/Manager Soil & Plant Scientist	Environmental Science Teacher - PS Forestry & Conservation Science Instructor - PS Urban and Regional Planners Biochemists and Biophysicists

*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:

