Northeast CTE Agricultural Research and Biotechnology Pathway Plan

Cluster: Agriscience, Food, and Natural Resources

Pathway: Agricultural Research and Biotechnology

This Career Pathway can serve as a guide, along with other career planning materials, as students continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each student's educational and career goals. 28 credits needed for graduation.

Student Name: _____
Grade: _____
School Name: _____

This pathway template is designed at the regional level and is intended to be modified locally. It may also be used to customize individual student experiences.

Academic

Grade	English Language Arts	Math	Science	Social Studies	Others
9	English I	Math I	an Earth Science	World History	Health/P.E.
10	English II	Math II	Biology	Civics and Economics	
11	English III	Math III	a physical science	American Hist I/II	
12	English IV	Math elective	***NCSSM Science Electives include 4 Agriculture options.***		
	Students planning to attend 4 year university should take two foreign languages--one being 2nd level				
	Electives--Students choose from CTE Foundation & Enhancement options below.				

Workbased Learning Experiences

FFA
Job Shadowing
Internships
Apprenticeships
field trips
classroom speakers

CTE Preparation

Foundation

Complete minimum of 4 Courses to Earn CTE Concentrator Status--one must be starred * course

Required Courses	Optional Courses
Agriscience Applications	*A traditional Ag course sequence in the areas below:*
Env. and Nat. Resources I, II*	Agricultural Mechanics sequence
Biotechnology and Agriscience Research I, II*	Horticulture sequence
	Animal Science sequence

Enhancement

Students Can Opt to Replace One Foundation Course Above with an Enhancement Course

MSITA Word, PowerPoint, and Publisher
MSITA Excel and Access

Credentials

MOS Word
MOS PowerPoint
MOS Excel
MOS Access

Concentration in a pathway allows students to take WorkKeys, which can result in Bronze, Silver, Gold, or Platinum certificates.

Ag credentials are dependant upon course sequence.

Community Co llege certificates and credentials will vary by program offerings.

Supervised Agriculture Experience (SAE)

Envirothon

Articulated College Credit Opportunities

Agricultural Mechanics II	WLD 112 or AGR 111
Animal Science II	ANS 110
Horticulture I	HOR 150
Horticulture II Landscaping	HOR 114 or LSG 11
MSITA Word, PP , Publisher	CIS 111 or CIS 124 or OST 136

Career Counseling

8th Grade
Exploring Career Decisions
ACT Aspire
Career Counseling

9-12th Grade
ACT PLAN--10th grade
ACT College Readiness Assessment

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Career Diploma Endorsement Requirements

CTE Concentrator Status
2.6 Unweighted GPA
Mimimum of one industry credential