



Henry County Schools Plan of Study

Student Name: _____
School: _____
Date: _____

Cluster: Agriculture, Food & Natural Resources

Pathway: Plant Systems

*This Career Pathway Plan of Study (based on the Interactive Media Pathway of the Information Technology Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. *This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements as well as college entrance requirements.*

EDUCATION LEVELS	GRADE	English/ Language Arts	Mathematics	Science	Social Studies/ Science	Other Required Courses Recommended Electives Learner Activities	Recommended Career and Technical Courses Source: Administrative Planning Guide www.doe.virginia.gov/VDOE/ Instruction/CTE/apg/	SAMPLE – Occupations Relating to This Pathway: www.doe.virginia.gov/VDOE/ Instruction/CTE/careerclusters/ www.careerclusters.org www.cteresource.org/cpg/	
Graduation Requirements: http://www.doe.virginia.gov/2plus4in2004/index.shtml									
MIDDLE	7						NOTE: Use state course titles Agriscience Exploration	- Plant Breeder and Geneticist - Soil and Water Specialist - Certified Crop Advisor - Botanist - Tree Surgeon - Education and Extension Specialist - Golf Course Superintendent - Greenhouse Manager - Forest Geneticist - Florist Manager - Ornamental Horticulturist - Certified Crop Advisor - Floral Designer - Plant Nursery Manager	
	8						Agriscience and Technology		
Career Assessment: Administration of a career assessment instrument is appropriate at the middle school level to help students and their parents plan for high school (Virginia's Career Planning System or other assessment product).									
SECONDARY	9	English	Algebra I	Earth Sciences	World History/ Geography	Health & PE (2 years) Foreign Language (3 years) Other Electives to Complement Pathway	Agricultural Mechanics and Basic Plant Science		
	10	English	Geometry	Biology/DE Biology	World History/ Geography		Horticulture Sciences		
	11	English	Algebra II	Chemistry/AP Chemistry	US/VA History		Floral Design I, II Greenhouse Production		
	12	English	Trigonometry/ Advanced Algebra	Physics/AP Environmental Science	US/VA Government		Landscaping Specialty Horticulture		
High school courses in the pathway offered locally for college credit should be coded: DE (Dual Enrollment) and/or VC (Validated Credit)									
List related certifications/credentials approved by VDOE and offered locally: https://doe.virginia.gov/instruction/career_technical/index.shtml Floriculture-Greenhouse Assessment – NOCTI Floriculture Assessment – NOCTI Horticulture-Landscaping Assessment – NOCTI Greenhouse Operators Certification Program-Southeast Greenhouse Growers Association						Additional Learning Opportunities: CTSO Organization(s): ☐ DECA ☐ FBLA ☐ FCCLA ☒ FFA ☐ FEA ☐ HOSA ☐ SkillsUSA ☐ TSA Work-Based Learning: ☐ Career Research ☐ Cooperative Education ☐ Internship ☐ Mentorship ☐ Job Shadowing ☐ Service Learning Project ☐ Student Apprenticeship			
Postsecondary: Placement Assessments such as COMPASS & SAT II						College Entrance Exams such as ACT & SAT			
POSTSECONDARY	SAMPLE POSTSECONDARY PROGRAMS RELATED TO THIS CAREER PATHWAY Individual plans must include locally agreed upon courses at the postsecondary level (See page 2)								
	Pathway	Associate Degree, College Certificate, or Apprenticeship			Bachelors Degree		Postgraduate Degree		
	Plant Systems	Horticulture			Horticulture				

College: [Patrick Henry Community College](#)School Division(s): [Henry County Schools](#)

Postsecondary: Placement Assessments such as COMPASS & SAT II

POSTSECONDARY - COMMUNITY COLLEGE or APPRENTICESHIP - Determined Locally	Semester	English	Mathematics	Science	Social Studies	Required Courses or Recommended Electives			
	POSTSECONDARY PLAN OF STUDIES MUST INCLUDE POSTSECONDARY ACADEMIC, CTE, AND OTHER ELECTIVE COURSES APPROPRIATE FOR AN ASSOCIATE DEGREE.								
	Year 1 1 st Semester	Grammar for Writing & Speaking (ENG 134)	Intro to Mathematics (MTH 120)	Orientation (SDV 100)		Introduction to Horticulture (HRT 100)	Landscape Plants I (HRT 201)		
	Year 1 2 nd Semester	Technical Report Writing I (ENG 134)				Principles of Horticulture (HRT 110)	Herbaceous Plants (HRT 246)	Turf Grass Management I (HRT 228)	
	Year 2 1 st Semester					Plant Propagation (HRT 115)	Landscape Construction & Maintenance (HRT 275)		
	Year 2 2 nd Semester			Social Science Elective		Landscape Plants II (HRT 202)	Greenhouse Mgt. (HRT 226)	Wellness Elective	
College courses offered locally in the high school for college credit should be coded: DE (Dual Enrollment) and/or VC (Validated Credit)									
Related Industry Certifications Available:					Additional Suggested Learning Opportunities:				
					Work-Based Learning: ☐ Cooperative Education ☐ Internship ☒ Mentorship ☐ Job Shadowing ☐ Service Learning Project ☐ Registered Apprenticeship				
UNIVERSITY	University/College: Virginia Tech Degree or Major: Agriculture Science Number of Articulated CC Credits:								
	Notes:								