



Commonwealth of Virginia Plan of Study

Student Name: _____

School: _____

Date: _____

Cluster: Agriculture, Food & Natural Resources

Pathway: Horticulture Technology

This Career Pathway Plan of Study 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	English	Math 7/3111	4115/Life Science	Social Studies 7/2355	Health & PE	NOTE: Use state course titles Agriscience Exploration 8003	Agricultural Applications Software Developer/ Programmer Agricultural Educator Agricultural Engineer - Agricultural Equipment Parts Manager - Communication Technician - Database Administrator - Electronic Systems Technician - Equipment/Parts Manager - GPS Technician - Heavy Equipment Maintenance Technician - Information Lab Specialist - Machine Operator - Machinist - Recycling Technician - Remote Sensing Specialist - Waste Water Treatment Plant Operator - Welder
	8	English	Math 8/3112	4125/Physical Science 8	Social Studies 8/2220 Civics & Economics	Health & PE	Agriscience and Technology 8004	
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 (Core Academic and CTE): Supervised Agricultural Experience (SAE) and participation in appropriate FFA Activities support and reinforce classroom and laboratory learning and should be a requirement for all students.	6612 Computer Information Systems/ITE 115 DE	8016 Introduction to Power, Structural, and Technical Systems or 8034 Applied Horticultural Sciences 8018 Agricultural Power Systems or 8036 Principles of Landscape Contracting 8019 Agricultural Fabrication and Emerging Technologies or 8035 Plant Production & Management or 8051 Turfgrass Establishment & Maintenance
	10	English	Geometry	Biology	World History/ Geography			
	11	English	Algebra II	Chemistry	US/VA History			
	12	English	Trigonometry/ Advanced Algebra	Physics (or Principles of Technology I and II)	US/VA Government			
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: http://www.doe.virginia.gov/VDOE/Instruction/CTE/apg/ (Go to Section 9.) Agricultural Mechanics Assessment (NOCTI) Virginia Workplace Readiness Assessment (NOCTI)						Additional Learning Opportunities: CTSO Organization(s): <input type="checkbox"/> DECA <input type="checkbox"/> FBLA <input type="checkbox"/> FCCLA <input checked="" type="checkbox"/> FFA <input type="checkbox"/> FEA <input type="checkbox"/> HOSA <input checked="" type="checkbox"/> Skills USA <input type="checkbox"/> TSA		
Work-Based Learning: <input type="checkbox"/> Career Research <input type="checkbox"/> Cooperative Education <input checked="" type="checkbox"/> Internship <input type="checkbox"/> Mentorship <input checked="" type="checkbox"/> Job Shadowing <input type="checkbox"/> Service Learning Project <input type="checkbox"/> 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	
	Agriculture, Food, & Natural Resources	Horticulture Technology AAS (JSRCC)						

College: J. Sargeant Reynolds Community College

School Division(s): _____

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	ENG 111 College Composition I DE	MTH 120 Introduction to Mathematics	SDV 100 College Success Skills	Social/Behavioral Science Elective	Humanities/Fine Arts Elective	HRT 106 Practical Horticulture	HRT 110 Principles of Horticulture	
	Year 1 2 nd Semester	ENG 112 College Composition II DE	ITE 115 Introduction to Computer Applications and Concepts DE	Social/Behavioral Science Elective	HRT 125 Chemicals in Horticulture	HRT 127 Horticultural Botany	Personal Wellness Elective		
	Year 2 1 st Semester	HRT 201 Landscape Plant Materials I	Approved HRT Elective	Approved HRT Elective	Approved HRT Elective	Approved HRT Elective			
Year 2 2 nd Semester	HRT 202 Landscape Plant Materials II	Approved HRT Elective	Approved HRT Elective	Approved HRT Elective	Approved HRT Elective	HRT 290 Coordinated Internship			
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:
 Degree or Major:
 Number of Articulated CC Credits:

Notes: