

Name _____

Learner ID _____

School/College/University _____

Sample Program of Studies

Cluster: Agriculture, Food and Natural Resources

Pathway: Plant Science

Career Pathway Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Pathway Plan of Study (based on the Agriculture, Food and Natural Resources 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	Math	Science	Social Studies/ Sciences	Other Required Courses Other Electives Recommended Electives Learner Activities	*Career and Technical Courses and/ or Degree Major Courses for Plant Science Pathway	SAMPLE Occupations Relating to This Pathway	
Interest Inventory Administered and Plan of Study Initiated for all Learners									
SECONDARY	9	English Composition	Algebra I	Earth Science	Social Studies 9		AG Science I	Occupations Requiring Postsecondary Education ► Agricultural Journalist ► Biotechnology Lab Technician ► Commodity Marketing Specialist ► Custom Hay/Silage Operator ► Farmer ► Golf Course Manager ► Grain Operation Superintendent ► Green House Manager ► Rancher ► Tree Surgeon Occupations Requiring Baccalaureate Degree ► Agricultural Educator ► Bioinformatics Specialist ► Botanist ► Plant Breeder and Geneticist ► Plant Pathologist ► Soil and Water Specialist	
	10	English Literature	Geometry	Biology	Modern Europe		AG Science II		
	11	Literature & Composition	Pre-Calculus	Chemistry	U.S. History		Introduction to Plant and Soil Science		
	College Placement Assessments-Academic/Career Advisement Provided								
	12	English Composition ACC/UCONN	Intermediate Algebra ACC	Advanced Chemistry ACC/UCONN	World Issues		Advanced Plant and Soil Science focusing on agronomy, forestry and range science or horticulture		
Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.									
POSTSECONDARY	Year 13	English Composition	Intermediate Algebra ACCI	Chemistry	American Government		Principles of Plant Systems Fundamentals of Plant Production and Management		
	Year 14	Speech/Oral Communication		Biological Science Botany	Modern Western Traditions		Students choose area of specialization and take related courses such Horticulture, Forestry or Agronomy		
	Year 15	Technical Writing		Organic Chemistry Microbiology			Continue Courses in Area of Specialization		
	Year 16						Complete Plant Science Major (4-Year Degree Program)		