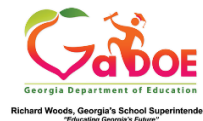


Program of Study: Plant and Landscape Systems



This Program of Study may serve as a graduation guide for the next four plus years, along with other career planning and educational materials. Courses listed in this model may include recommended coursework and should be individualized to students' educational and career goals. Each graduation plan needs to meet minimum high school graduation requirements. Dual Enrollment courses can be high school academic and/or career technical education courses.

Secondary: Plant and Landscape Systems					Postsecondary				
Course/Grade	Ninth	Tenth	Eleventh	Twelfth	TCC	Degree	Bachelor of Science		
English	9 th grade Lit/ Composition	10 th grade Lit/ Composition	American Lit/ Composition	World Lit/ Composition	Entrance or Exit Point	HP21 – Horticulture Pesticide Applicator - HORT 1000 Horticulture Science - HORT 1010 Woody Plant Identification - HORT 1020 Herbaceous Plant Identification - HORT 1330 Turfgrass Management - HORT 1080 Pest Management Commercial Application Licensure is obtainable, but not required. GGIA Plant Professional Exam	Entrance or Exit Point	EH13 – Degree Horticulture - Complete Academic courses - HORT 1000 Horticulture Science - HORT 1010 Woody Plant Identification - HORT 1020 Herbaceous Plant Identification - HORT 1080 Pest Management - Elective – 3 credits - HORT 1150 Horticulture Internship or Guided Horticulture Elective HORT Specializations General Horticulture 21 credits Landscape Specialization – 24 credits Floral Management Specialization – 24 credits	The University System of Georgia offers students' higher education options at 30 institutions throughout the state, providing a wide range of academic programming including certificates and associate, baccalaureate, masters, doctoral and professional degrees. https://apps.usg.edu/ords/f?p=118:1:0:::
Mathematics	Coordinate Algebra	Analytic Geometry	Advanced Algebra/ Algebra II	Pre-calculus					
Science	Physical Science	Biology	Chemistry	Physics					
Social Studies	Psychology	World History	US History	Government (½ unit) Economics (½ unit)					
Pathway Completer	Basic Agricultural Science	General Horticulture and Plant Science	Nursery and Landscape	Work-Based Learning, Youth Apprenticeship, or Capstone Project					
Industry Recognized Credential (Pathway Completer)		Visit the End of Pathway Assessment Page (see note below)							
Required/ Selective Electives	Health & Personal Fitness (<i>can be taken in grades 9-12</i>)	Forestry Science II	Agribusiness Management and Leadership	AP Biology					
	Modern Language/Latin 2 units required for admissions to Georgia University System Colleges/Universities For a listing of Modern Language/Latin courses offered at your high school, please contact your advisor, counselor, or curriculum handbook.		Other Electives For a listing of other elective courses offered at your high school, please check with your advisor, counselor, or curriculum handbook.						

NOTE: Students have many options to **ENTER** and **EXIT** from their academic studies into the workforce. When a student graduates from high school, they are eligible to choose one of many **ENTRANCE POINT** options: **1.** Enroll in either a 2- or 4-year post-secondary program; **2.** Enroll in an apprenticeship program or the military; or **3.** Enter the workforce using technical skills learned in high school. When a student finishes a 2- or 4-year degree program, they may choose to **EXIT** and **1.** Enroll in an apprenticeship program or the military; **2.** Enroll in a professional university degree program; or **3.** Enter the workforce using technical skills learned.

Plant and Landscape Systems Career Pathway Completers - Industry Credentialing for High School Students

Upon completion of sequenced courses in the Plant and Landscape Systems Career Pathway, students are eligible to complete the Industry-Recognized student credential for fulfillment of the End of Pathway Assessment. Secondary students completing the Plant and Landscape Systems pathway courses will be able to sit for the National Industry Credentialed assessment offered on-line from NOCTI and Precision. Once mastery is reached, students will receive recognition for completion and use this credential in conjunction with their job or continuing training. For specific assessment information, refer to: <http://bit.ly/AgricultureEOPA>

Sample High Demand Careers in Georgia

Occupation Specialties	Level of Education Needed	Georgia Average Salary	Annual Average Openings in Georgia	2014 – 2024 Employment Outlook
Plant and Soil Scientists	Bachelor's Degree	\$68,900	10	High Skill
Pesticide Handlers, Applicators	Postsecondary Certificate	\$32,353	38	High Demand, High Skill
Nursery and Greenhouse Managers	High School Diploma	\$23,310	743	High Demand, High Skill

GDOL Labor Market Explorer

Go to GAfutures at www.gafutures.org for more information about your education and career planning, including valuable financial information (grants and scholarships including HOPE Program, grants and loans, FAFSA, and CSS forms).

Career Enhancement Opportunities	Career-Related Education Activities <input type="checkbox"/> Career Awareness <input type="checkbox"/> Career Exploration <input type="checkbox"/> Instructional Related <input type="checkbox"/> Connecting <input type="checkbox"/> Work-Based Learning <ul style="list-style-type: none"> • Employability Skill Dev. • Cooperative Education • Internship • Youth Apprenticeship • Clinicals 	Postsecondary Options: <ul style="list-style-type: none"> • 4-Year Universities/Colleges • 2-Year Colleges • Technical Colleges • State Registered Apprenticeships • Special Purpose Schools • On-the-Job Training • Military 	Earning Postsecondary Credits While in High School A vital way to get ahead and realize you can pass college courses is by earning postsecondary credits as a high school student. Georgia offers a dual credit program titled Dual Enrollment. You need to talk with your parents, school counselor, or advisor about the proper courses to take each year in high school and dual credit. Students completing the course work in this Plan, will have earned/completed an Industry Credential, Technical Certificate of Credit (TCC), Associates of Applied Science, and/or Bachelor's Degree.
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Postsecondary Transition

- Students who will continue their education in a Program of Study at one of the University System of Georgia institutions should prepare to take the ACT or SAT for admissions. Tests for admissions may vary from institution to institution. Contact the selected institution for specific testing information. Additional admissions information can be found at Staying On Course. (https://www.usg.edu/assets/student_affairs/documents/Staying_on_Course.pdf)
- Students who will continue their education in a Program of Study at one of the Technical College System of Georgia institutions should prepare to take the COMPASS test for admissions.
- Students who will continue their education and training in the US Military should take the ASVAB assessment.
- Students should utilize electronic college and career databases to select the most appropriate postsecondary opportunities to match their selected career field, including registered apprenticeships.
- Georgia's dual-credit programs have been combined into one program entitled Dual Enrollment, in which high school students may earn their high school course credits while taking college courses.

Related Pathway Occupations	Other Related Occupations
<ul style="list-style-type: none"> • Farm and Home Management Advisors • Environmental Scientists • Hydrologists • Biologists • Food Scientists and Technologists • Crop Farmworkers and Laborers • Agricultural Technicians • Nursery and Greenhouse Managers 	<ul style="list-style-type: none"> • Landscape Architect • Nursery Workers • Agricultural Sciences Teachers • Farm and Ranch Managers • Vocational Education Teachers <p style="text-align: right;">*ONET Online</p>

Plant and Landscape Systems Pathway Description

A career in plant and landscape systems offers a variety of job opportunities in the fields of education, research, golf and sports turf, landscape design, parks and gardens, public service, production management, and sales and marketing. Some jobs available include landscape designer, greenhouse manager, golf course superintendent, plant breeder, florist, agricultural chemical researcher and garden center owner.

Educational requirements in this field vary by job. Two- and four-year programs are available in this area. Advanced degrees may be necessary for some research-related jobs. Those who are interested in this field should be able to carry out projects and work independently, have a commitment to quality and customer service, have an appreciation of our natural environment and have good communication skills, both written and verbal.

Employment opportunities in this field should be good, with more job openings than job seekers. Employment is expected to increase in response to the increasing demand for both products and services by commercial producers, landscape contractors, turf managers and the general public. New avenues of research in biotechnology to develop plant and food crops that require less fertilizer, fewer pesticides and herbicides, and less water will also increase the demand for careers in plant science and horticulture.