

PROGRAM OF STUDY: Plant & 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:				
COURSE/ GRADE	NINTH	TENTH	ELEVENTH	TWELFTH
ENGLISH	9 th grade Lit/ Composition	10 th grade Lit/ Composition	American Lit/ Composition	World Lit/ Composition / British Lit
MATHEMATICS	Coordinate Algebra / Algebra I	Analytic Geometry / Geometry	Advanced Algebra / Algebra II	Pre-calculus
SCIENCE	Physical Science	Biology	Chemistry	Physics
SOCIAL STUDIES	Government	World History	US History	Economics
PATHWAY COMPLETER	Basic Agricultural Science	General Horticulture and Plant Science	Nursery and Landscape	Another course in focus area, Work-Based Learning, or Youth Apprenticeship
Industry Recognized Credential (Pathway Completer)		Visit the End of Pathway Assessment Page (see note below)		
Required/ Selective Electives	Health & Personal Fitness (can be taken in grades 9-12)	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.	

Postsecondary Transition <ul style="list-style-type: none"> University System of Georgia Institutions: Admissions Testing <ul style="list-style-type: none"> ACT or SAT For More Information contact the institution of your choice Technical College System of Georgia <ul style="list-style-type: none"> Placement Exam United States Military <ul style="list-style-type: none"> ASVAB Assessment Use BRIDGE Law platform to inform decisions on postsecondary opportunities Dual Enrollment Earning high school course credits while taking college courses 	Plant & Landscape Systems Career Pathway Completers - Industry Credentialing for High School Students <u>Upon completion of sequenced courses in the Plants and Landscape Systems Pathway, students are eligible to complete the Industry-Recognized student credential for fulfillment of the End of Pathway Assessment. Secondary students completing the Plants and Landscape Systems pathway 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 the credential in conjunction with their job or continue training. For specific assessment information, refer to: http://bit.ly/AgricultureEOPA</u>
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Plant & 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 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.

Sample In Demand Careers in Georgia				
Occupation Specialties	Level of Education Needed	Georgia Average Salary	Annual Average Openings in Georgia	2018 – 2028 Employment Outlook
Nursery and Greenhouse Managers	High School Diploma	\$23,310	743	In Demand, High Skill
Pesticide Handlers, Applicators	Postsecondary Certificate	\$32,353	38	In Demand, High Skill
Environmental Science Technicians	Bachelor's Degree	\$39,846	137	In Demand, High Skill
Plant and Soil Scientists	Bachelor's Degree	\$68,900	10	In Demand, High Skill

Related Pathway Occupations	Other Related Occupations
<ul style="list-style-type: none"> Farm & Home Management Advisors Hydrologists Environmental Scientists Agricultural Technicians Food Scientists & Technologists 	<ul style="list-style-type: none"> Landscape Architect Nursery Workers Farm & Ranch Managers Agricultural Sciences Teachers



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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.

POSTSECONDARY:

	TCC	DIPLOMA OR AAS	BACHELOR OF SCIENCE
Entrance/Exit Point	<p>HP21 Horticulture Pesticide Applicator TCC HORT 1000 Horticulture Science HORT 1010 Woody Plant Identification HORT 1080 Pest Management 3 Credit HORT Guided Elective</p>	<p>EH12 Horticulture Diploma HP21 TCC plus ENGL 10910 Fundamentals of English I MATH 1012 Foundations of Mathematics EMPL 1000 Interpersonal Relations and Professional Development HORT 1020 Herbaceous Plant Identification HORT 1150 Environmental Horticulture Internship HORT 1120 Landscape Management HORT 1310 Irrigation and Water Management HORT 1330 Turfgrass Management 3 credits of Guided HORT Elective COMP 1000 Introduction to Computer Literacy</p> <p>EH13 Horticulture Degree EH12 Horticulture Diploma plus 15 Credits of General Education Core HORT 1041 Landscape Construction HORT 1060 Landscape Design 1 Credit Guided HORT Elective</p>	<p>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.ds.usg.edu/u/ords/f?p=118:1:0:::.</p> <p>USG Staying on Course https://www.usg.edu/student_affairs/assets/student_affairs/documents/Staying_on_Course.pdf</p>
Entrance/Exit Point			

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	<p>Career-Related Education Activities</p> <ul style="list-style-type: none"> • Career Awareness • Career Exploration • Instructional Related • Connecting <ul style="list-style-type: none"> • Work-Based Learning • Employability Skill Dev. • Cooperative Education • Internship • Youth Apprenticeship • Clinicals 	<p>Postsecondary Options:</p> <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 	<p>Earning Postsecondary Credits While in High School</p> <ul style="list-style-type: none"> • Dual Enrollment Program • Earn postsecondary credit while in high school • You can complete <ul style="list-style-type: none"> • Industry Credential • Technical Certificate of Credit (TCC) • Associates of Applied Science Degree • Bachelor's Degree • Who can help? <ul style="list-style-type: none"> • Parents • School Counselor • Advisor
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