

Program of Study: Forest / Natural Resources Management



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: Forest / Natural Resources Management					Postsecondary			
Course/Grade	Ninth	Tenth	Eleventh	Twelfth	TCC	Diploma	Bachelor of Science	
English	9 th grade Lit/Composition	10 th grade Lit/Composition	American Lit/Composition	World Lit/Composition / British Lit	Entrance or Exit Point	FTA1 TCC Forest Technician Assistant - Complete Academic courses - COMP 1000 – Introduction to Computers - FORS 1010 – Introduction to Forestry and Natural Resources - FORS 1020 – Soils and Hydrology - FORS 1030 – Dendrology - FORS 1040 – Forest Protection - FORS 1160 – Forest Surveying and Mapping - FORS 1210 – GPS/GIS Aerial Photography - FORS 12060 – Forest Measurement - FORS 1310 – Silvics and Silviculture - FORS 1410 – Forest Measurement - FORS 1580 – Wildlife Management OR - FORS 1600 – Forest Technology Internship - FORS 2460 – Forest Management - Guided Elective – 3 credits	Entrance or Exit Point	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 / Algebra I	Analytic Geometry / 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	Forest Science	Natural Resources Management	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 <i>2 units required for admissions to Georgia University System Colleges/Universities</i> 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.

Student Industry Credentialing for High School Career Pathway Completers

Upon completion of sequenced courses in a Career Pathway, students are eligible to complete the Industry-Recognized student credential for fulfillment of the End of Pathway Assessment. Secondary students completing the Forestry/Natural Resources Management 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 this credential in conjunction with their job or continuing training. For specific assessment information, refer to: <http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/tsai-afnr.aspx>

Sample High Demand Careers in Georgia

Occupation Specialties	Level of Education Needed	Georgia Average Salary	Annual Average Openings in Georgia	2014 – 2024 Employment Outlook
Soil and Plant Scientists	Bachelor's Degree	\$68,900	10	High Demand
Foresters	Bachelor's Degree	\$53,200	4	High Skill
Forest and Conservation Workers	Bachelor's Degree	\$24,500	10	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 Degree, 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 complete a placement exam.
- 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"> <li style="margin-right: 10px;">• Soil and Plant Scientists <li style="margin-right: 10px;">• Foresters <li style="margin-right: 10px;">• Forest and Conservation Workers <li style="margin-right: 10px;">• Range Managers <li style="margin-right: 10px;">• Forest and Conservations Technicians <li style="margin-right: 10px;">• Forestry and Conservation Science <li style="margin-right: 10px;">• Teachers • Agricultural Teachers 	<ul style="list-style-type: none"> <li style="margin-right: 10px;">• Animal Scientists <li style="margin-right: 10px;">• First-Line Supervisor of Agricultural Crop and Horticulture Workers <li style="margin-right: 10px;">• Nursery Workers

*ONET Online

Forest/Natural Resources Management Pathway Description

Those working in the forestry and natural resources field conserve and manage our forest and natural resources. Sample job opportunities in this field include wildlife manager, park manager, fish and game officer, forest worker, logger, forest manager and fisheries manager.

An associate's or bachelor's degree in forestry is the minimum education recommended for a professional career in forestry. Forestry and natural resources technicians usually receive their training through a combination of community colleges and on-the-job training. Many states require licensure of professional foresters.

Those working in this field regularly work with landowners, loggers, forestry technicians and aides, farmers, ranchers, government officials, special interest groups and the general public. Anyone interested in this field should enjoy working outdoors.

The federal, state and local governments employ many forestry and natural resources workers. Employment of foresters is concentrated in the western and southeastern states, where many national and private forests and parks and most of the lumber and pulp-wood producing forests are located. Job opportunities are expected to be good, with the most employment opportunities in private sector consulting firms, scientific research and development services.