



## Program of Study: Forestry and Animal Science

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: Forestry and Animal Science					Entrance or Exit Point	Postsecondary:		
Course/Grade	9	10	11	12		TCC	Diploma or AAS	Bachelor of Science
<b>English</b> 4 credits	9 <sup>th</sup> Grade Lit	10 <sup>th</sup> Grade Lit	American Lit	British Lit		<b>FTA1 TCC Forest Technician Assistant</b> <ul style="list-style-type: none"> <li>FORS 1010 Introduction to Forestry and Natural Resources</li> <li>FORS 1030 Dendrology</li> <li>FORS 1160 Forest Surveying and Mapping</li> <li>FORS 1260 Forest Management</li> </ul> <b>BT41 TCC Basic Timber Harvesting</b> <ul style="list-style-type: none"> <li>THOP 1101 Introduction to Timber Harvesting</li> <li>THOP 1102 Forest Products Marketing</li> <li>THOP 1103 Woodland Skills</li> <li>THOP 1104 Timber Industry Standards</li> </ul>	The following degree program is available: <ul style="list-style-type: none"> <li>Veterinary Technology, AAS (VT23)</li> <li>Forestry Technology (FT13)</li> </ul>	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.
<b>Math</b> 4 credits	Algebra I	Geometry	Algebra II	Fourth Math Selection				
<b>Science</b> 4 credits	Environmental Science	Physical Science	Biology	Fourth Science Selection				
<b>Social Studies</b> 3 credits	World History	US History	Economics and Government					
<b>PE</b> 1 credit	Health and Personal Fitness		Consult your counselor for course progression. Course progression on this sheet is based on general guidelines.					
<b>Pathway</b> 3 credits	<b>Basic Agriculture</b>	<b>Forest Science</b>	<b>Animal Science and Biotechnology</b>	See CTAE Related Electives Below				
<b>Electives</b>	<b>World Language Sequence</b> French or Spanish <i>2 Units Required for admission to Georgia University System Colleges</i>		<b>Fine Arts</b> Visual Arts Band Chorus Drama	Advanced Placement Courses  Dual Enrollment Courses				
	<b>Related CTAE Electives</b> Occupational Safety General Horticulture		<b>Work-Based Learning</b> Internship Cooperative Education Youth Apprenticeship					

**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.

### Forestry and Animal Science Career Pathway Completers - Industry Credentialing for High School Students

Upon completion of sequenced courses in a Forestry and Animal Science 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 and Animal Science pathway will be able to sit for the National Industry Credentialed assessment offered on-line from Precision. Once mastery is reached, students will receive recognition for completion and use this credential in conjunction with their job or continuing training.

Sample High Demand Careers in Georgia				
Occupation Specialties	Level of Education Needed	Georgia Average Salary	Annual Average Openings	2014-2024 Employment Outlook
Soil and Plant Scientists	Bachelor's Degree	\$68,900	10	In Demand
Nursery and Greenhouse Managers	Bachelor's Degree	\$69,300	450	High Skill
Animal Scientists	Advanced Degree	\$61,700	11	In Demand, High Skill

GDOL Labor Market Explorer

Go to GAfutures at <a href="http://www.gafutures.org">www.gafutures.org</a> 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).				<p style="text-align: center;"><b>Forestry and Animal Science Systems Pathway Description</b></p> <p>This diversified pathway focuses on both forestry and animal science systems.</p> <p>Animal scientists conduct research to develop better ways to produce and process meat, poultry, eggs, and milk. Animal scientists are experts in genetics, nutrition, reproduction, and animal production management. Developing new characteristics to introduce into animals (such as chickens that lay more eggs) and reducing the cost of raising animals and processing animal products are other goals of workers in this pathway.</p> <p>Those working in the forestry and natural resources field conserve and manage our forest and natural resources. Workers 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.</p>
<b>Career Enhancement Opportunities</b>	<b>Career-Related Education Activities</b>	<b>Postsecondary Options:</b>	<b>Earning Postsecondary Credits While in High School</b>	
	<ul style="list-style-type: none"> <li>• Career Awareness</li> <li>• Career Exploration</li> <li>• Instructional Related</li> <li>• Connecting</li> <li>• Work-Based Learning</li> </ul>	<ul style="list-style-type: none"> <li>• 4-Year Universities/Colleges</li> <li>• 2-Year Colleges</li> <li>• Technical Colleges</li> <li>• State Registered Apprenticeships</li> <li>• Special Purpose Schools</li> <li>• On-the-Job Training</li> <li>• Military</li> </ul>	<p>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.</p> <p>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.</p>	
	<p><b>Postsecondary Transition</b></p> <ul style="list-style-type: none"> <li>• 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. (<a href="https://www.usg.edu/assets/student_affairs/documents/Staying_on_Course.pdf">https://www.usg.edu/assets/student_affairs/documents/Staying_on_Course.pdf</a>)</li> <li>• 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.</li> <li>• Students who will continue their education and training in the US Military should take the ASVAB assessment.</li> <li>• Students should utilize electronic college and career databases to select the most appropriate postsecondary opportunities to match their selected career field, including registered apprenticeships.</li> <li>• 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.</li> </ul>			
<b>Related Pathway Occupations</b>		<b>Other Related Occupations</b>		
<ul style="list-style-type: none"> <li>• Nursery and Greenhouse Managers</li> <li>• Soil and Plant Scientists</li> <li>• Animal Scientists</li> <li>• Animal Breeders</li> <li>• Nonfarm Animal Caretakers</li> <li>• Nursery Workers</li> <li>• Animal Trainers</li> </ul>		<ul style="list-style-type: none"> <li>• First-Line Supervisor of Animal Husbandry</li> <li>• First-Line Supervisor of Animal Care Workers</li> <li>• Agricultural Science Teachers</li> </ul> <p style="text-align: right;">ONET Online</p>		

<b>Student Organization:</b> FFA	<b>Programs of Study Developed in Partnership:</b> the Georgia Department of Education, the Technical College System of Georgia, and the University System of Georgia. #CTAEDelivers
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