

Peach State Pathways: Program of Study



Agriculture

Learner Name _____
 Learner Signature _____
 Parent/Guardian Signature _____

Date _____
 Advisor/Counselor Signature _____

This plan of study should serve as a guide, along with other career planning materials, as you continue your education. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. All plans will meet minimum high school graduation requirements as well as minimum college entrance requirements.

Applicants to Board of Regents institutions should be advised that meeting minimum requirements will not guarantee admission at any institution. Institutions may set additional and/or higher requirements.

High School Education and Career Planning Graduation Rules for 9th grade enrolling 2008-2009	I. English Language Arts (4 units)	II. Mathematics (4 units)	III. Science (4 units)	IV. Social Studies (3 units)	V. Required Electives (3 units) CTAE and/or Modern Language/Latin and/or Fine Arts	VI. Health & Physical Education (1 unit)
	English 9 English 10 English 11 English 12 AP Lit and Comp AP Lang and Comp IB English SL (Am Lit) IB English HL (World Lit)	Math 1 Math 2 Math 3 Math 4 OR Accelerated Math 1 Accelerated Math 2 Accelerated Math 3 AP Statistics Calculus AP Calculus AB AP Calculus BC IB Math Methods IB Math Studies SL IB Math SL IB Math HL	Biology Physical Science OR Physics Chemistry OR Environmental Science OR Earth Systems OR an AP/IB course AP Biology AP Physics AP Chemistry IB Biology SL/HL IB Chemistry SL/HL IB Physics SL/HL Forensic Science	Am Gov/Civics (1/2 unit) World History US History Economics (1/2 unit) AP World History AP US History AP Government AP Microeconomics AP Macroeconomics IB Economics SL IB History of the Americas (SL)	Career Pathway Sequence of Courses: 02.47100 Basic Agricultural Science and Technology (AG – BAS) 02.42100 Animal Science Technology/Biotechnology (AG-ASB) 01.43200 Agricultural Animal Production and Management (AG-APM) CAREER PATHWAY RELATED COURSES: 02.42200 Equine Science (AG-ES)	Health & Personal Fitness
	Sample Additional English Courses: Literary Types/Composition Oral/Written Communication	Sample Additional Math Courses: TBA	Sample Additional Science Courses: Microbiology Environmental Science AP Environmental Science Aviation Meteorology Astrophysics	Sample Additional Social Studies Courses: Current Issues The Humanities Technology and Society Psychology Sociology	Modern Language/Latin 2 units required for admission to Georgia University System Colleges/Universities For a listing of Modern Language/Latin courses offered at your high school, please consult your advisor, counselor, or curriculum handbook.	Sample Additional Health & PE courses: Team Sports Rec Games Aerobics
					Fine Arts Visual Arts Performing Arts For a listing of Fine Arts courses offered at your high school, please consult your advisor, counselor, or curriculum handbook.	
				VII. Other Electives (4 units) For a listing of other elective courses offered at your high school, please consult your advisor, counselor, or curriculum handbook.		
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 • Employability Skill Dev. • Cooperative Education • Internship • Youth Apprenticeship • Clinicals		Postsecondary Options: • 4-Year Universities/Colleges • 2-Year Colleges • Technical Colleges • State Registered Apprenticeships • Special Purpose Schools • On-the-Job Training • Military		Possible postsecondary credit opportunities may include: ▪ *Advanced Placement ▪ *Articulated Credit (Technical Colleges) ▪ *Dual Enrollment/ACCEL (Degree Programs) ▪ *Dual Enrollment/HOPE (Certificate and Diplomas) ▪ Joint Enrollment (postsecondary credit only) *Postsecondary credit opportunities allow high school students to earn both college and high school credit simultaneously while in high school. Check with your counselor/advisor and Education and Career Partnership program manager for more information regarding these opportunities and others, such as Early College which serves both middle and high school students.	

Go to GACollege411 at www.GACollege411.org for more information about your education and career planning, including valuable financial information (grants and scholarships including HOPE Program, loans, and FAFSA and CSS forms).

Current GEORGIA Graduation Rule for student entering the 9 th grade in fall of 2008-2009 Areas of Study:	Credits	Postsecondary Programs of Study Technical College	Postsecondary Programs of Study University of Georgia System
I. English/Language Arts	4	<p>Select the following link for a list of Technical College System of Georgia (TCSG) institutions offering programs in Animal Science. Each technical college varies in the specific degrees (AAS), diplomas, and certificates offered.</p> <p>https://kms.dtae.org/portal/tcsg/TC SGProgramOfferings.aspx</p> <p>Step 1: Use the drop-down box to select the term you plan to enter a TCSG institution;</p> <p>Step 2: From the Specific Program drop-down box select <u>Veterinary/Animal Health and Veterinary Assistant</u>.</p> <p>You can then view a list of TCSG institutions that offer this program as well as the specific campus and awards (degree, diploma or certificate) offered.</p>	<p>The following link will list Board of Regents institutions offering degrees in Animal Science. In the first box titled "Major," type "Agricultural Animal Science," "Animal Science," or "Animal Health." Then click the button at the bottom "View Matching Campuses" for a list. It will not be necessary to fill in all the other boxes. Further research will be required for specific programs of study that align with the pathway.</p> <p>http://www.gacollege411.org/Select/MatchAsst/default.asp</p>
II. Math	4		
III. *Science	4		
IV. Social Studies	3		
V. **Career, Technical and Agricultural Education (CTAE), and/or Modern Language/Latin, and/or Fine Arts	3		
VI. Health & Physical Education	1		
VII. Electives (4 units)	4		
TOTAL UNITS	23		
<p>* 4th Science may be used to meet both the required science and required elective in CTAE sequence of courses (V)</p> <p>**Student <u>must</u> complete 3 units in a pathway to complete CTAE pathway and take end of pathway assessment. Student <u>must</u> complete 2 years of the same Modern Language/Latin for admission to Georgia Board of Regents colleges/universities.</p>			

ANIMAL SCIENCE

Animal scientists conduct research to develop better ways to produce and process meat, poultry, eggs, and milk. Much of the research focuses on the health and breeding of livestock, but domestic animals, such as cats and dogs, are also a research concern. 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.

Some animal scientists inspect and grade livestock and food products. Others develop special foods for animals, purchase livestock, or work in technical sales or marketing. Scientists may also advise producers on optimizing animal housing, handling waste matter, or lowering mortality rates of livestock and other animals. They recommend methods to improve disease control and increase the quality and quantity of animal production.

Because most jobs in this field are research-based, a bachelor's degree in animal or agriculture science is required. A doctoral degree (Ph.D.) is necessary for leading research projects or teaching on the university level.

The farming and food production industry spends much money on breeding, raising, and feeding animals. The industry will continue to be interested in more efficient, less costly methods of raising animals. Therefore, employment of animal scientists at research firms will be needed to study new methods and develop healthier animals.

For more information, visit the following websites:
 American Society of Animal Science
www.asas.org
www.GACollege411.org
www.dol.state.ga.us

The sample ANIMAL SCIENCE PATHWAY occupations listed below meet two out of three of GDOE definitions for high-demand, high-wage and high-skilled. www.occsupplydemand.org

Occupation Specialties	Level of Education Needed	Average Salary	Annual Average Openings in Georgia
Animal Breeder	Short-Term On-the-Job Training	\$22,152	20
Biological Scientist	Bachelor Degree	\$61,984	30
Farm, Ranch, & Agricultural Manager	Bachelor Degree	\$56,285	180
Zoologist	Bachelor Degree	\$49,858	20