

Peach State Pathways: Program of Study



Agriculture

Learner Name _____

Date _____

Learner Signature _____

Advisor/Counselor Signature _____

Parent/Guardian 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.

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<div>High School Education and Career Plan</div> <div>Graduation Rule for 9th grade students enrolling 2008-2009</div>	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 Edu (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/IB course AP Biology AP Physics AP Chemistry IB Biology SL IB Biology HL IB Biochemistry IB Chemistry SL/HL	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)	AGRISCIENCE Career Pathway Sequence of Courses: 02.47100 Basic Agricultural Science and Technology 02.42100 Animal Science Technology/Biotechnology 02.44100 Plant Science and Biotechnology CAREER PATHWAY RELATED COURSES: 02.47500 Biotechnology in Agriculture 03.41100 Natural Resources Conservation 03.42200 Environmental Science and Stewardship 02.42400 Veterinary Science	Health & Personal Fitness
					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 check with your advisor, counselor, or curriculum handbook.	
					Fine Arts Visual Arts Performing Arts For a listing of Fine Arts courses offered at your high school, please check with your advisor, counselor or curriculum handbook.	
	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 Sociology AP Macroeconomics AP Microeconomics		
					VII. Other Electives (4 units) For a listing of other elective courses offered at your high school, please check with your advisor, counselor, or curriculum handbook.	Sample Additional Health & PE courses: Team Sports Rec Games Aerobics
<div>Career Enhancement Opportunities</div>	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 EducationInternshipYouth ApprenticeshipClinicals		Postsecondary Options: <ul style="list-style-type: none">4-Year Universities/Colleges2-Year CollegesTechnical CollegesState Registered ApprenticeshipsSpecial Purpose SchoolsOn-the-Job TrainingMilitary		Possible postsecondary credit opportunities may include: <ul style="list-style-type: none">*Advanced Placement*Articulated Credit (Technical Colleges)*Dual Enrollment/ACCEL (Degree Programs)*Dual Enrollment/HOPE (Certificate and Diploma programs)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, 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 Agriscience. 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 Agriculture Technology, Bioscience Technology, Biotechnology, Environmental Horticulture, or Environmental Technology.</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 Agriscience. In the first box titled "Major," type "Agriculture." 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 may 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 specific 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>			

AGRISCIENCE

Today's agriculture encompasses more than the production of crops and livestock. Agriscience is the combination of two fields, agriculture and science, where scientific knowledge is required to carry out the necessary functions in agriculture. The work agricultural scientists do plays an important part in maintaining and increasing the nation's agricultural productivity. The job opportunities in agriscience are many and varied, from developing ways to improve the quantity and quality of farm crops and animals to researching methods of converting raw agricultural commodities into attractive and healthy food products for consumers.

According to a U.S. Department of Agriculture study, there are not enough graduates in the field of agriculture to fill the number of jobs available. The demand for skilled people in the agricultural field has never been greater. The need for educated workers will continue to grow as the agricultural industry seeks new and better products and improved delivery and safety of those products. Job opportunities in agriscience are promising; agriscience and related occupations are expected to see increased growth.

For more information, visit these websites:

www.agday.org
www.GaCollege411.org
www.dol.state.ga.us
www.georgia.org/Business/Agriculture+Innovation+Center.htm

The sample AGRISCIENCE 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
Postsecondary Biological Science Teacher	Doctoral Degree	\$78,043	70
Environmental Engineering Technicians	Associate Degree	\$34,112	40
Environmental Engineer	Bachelor Degree	\$65,749	50
Environmental Compliance Inspectors	Long-Term On-the-Job-Training	\$51,667	150