# Student Plan of Study – Agribusiness Systems

## Current Area of Interest: Agriculture, Food & Natural Agribusiness Systems - This PLAN OF STUDY should serve as a guide for the next four years. Courses listed in this plan are only recommended coursework and should be individualized to meet each student's educational and career goals. All plans will meet minimum high school graduation requirements. Applicants to the University System of Georgia and the Technical College System of Georgia institutions should be advised that meeting minimum requirements will not guarantee admission. Postsecondary institutions may set additional requirements.

### Grade Level

**9th Grade**

<table>
<thead>
<tr>
<th>I. English/Language Arts</th>
<th>II. Math</th>
<th>III. Science</th>
<th>IV. Social Studies</th>
<th>V. Health/Personal Fitness</th>
<th>VII. Possible electives in additional pathways (students should check the local course description catalog for these and other electives)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 credits</td>
<td>4 credits</td>
<td>4 credits</td>
<td>3 credits</td>
<td>1 credit</td>
<td>Total 4 credits</td>
</tr>
</tbody>
</table>

**10th Grade**

<table>
<thead>
<tr>
<th>I. English/Language Arts</th>
<th>II. Math</th>
<th>III. Science</th>
<th>IV. Social Studies</th>
<th>V. Health/Personal Fitness</th>
<th>VII. Possible electives in additional pathways (students should check the local course description catalog for these and other electives)</th>
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<tbody>
<tr>
<td>4 credits</td>
<td>4 credits</td>
<td>4 credits</td>
<td>3 credits</td>
<td>1 credit</td>
<td>Total 4 credits</td>
</tr>
</tbody>
</table>

**11th Grade**

<table>
<thead>
<tr>
<th>I. English/Language Arts</th>
<th>II. Math</th>
<th>III. Science</th>
<th>IV. Social Studies</th>
<th>V. Health/Personal Fitness</th>
<th>VII. Possible electives in additional pathways (students should check the local course description catalog for these and other electives)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 credits</td>
<td>4 credits</td>
<td>4 credits</td>
<td>3 credits</td>
<td>1 credit</td>
<td>Total 4 credits</td>
</tr>
</tbody>
</table>

**12th Grade**

<table>
<thead>
<tr>
<th>I. English/Language Arts</th>
<th>II. Math</th>
<th>III. Science</th>
<th>IV. Social Studies</th>
<th>V. Health/Personal Fitness</th>
<th>VII. Possible electives in additional pathways (students should check the local course description catalog for these and other electives)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 credits</td>
<td>4 credits</td>
<td>4 credits</td>
<td>3 credits</td>
<td>1 credit</td>
<td>Total 4 credits</td>
</tr>
</tbody>
</table>

### Sample Elective Courses

- **Literary Types/Composition**
- **Journalism**
- **Oral/Written Communication Speech**

### Other Elective Courses

- **Other Math Elective Courses:** Calculus, AP Calculus, Math of Finance
- **Other Science Elective Courses:** Genetics, AP/IB Science, Microbiology, or Entomology

### Other Social Studies Elective Courses

- **Current Issues or AP/IB**
- **Soc Studies or Sociology or World Geography**

### Other CTAE Elective Courses

- Other CTAE electives are available to complete a related pathway

**Legend:**

- **Science:** Approved 4th Science may be used to meet both the required science and required elective in a Career, Technical, and Agricultural Education (CTAE) sequence of courses; see Fourth Science Requirements for more information. Student may take science courses in any sequence.
- **Math:** Select Math sequence 1, 2, 3, 4, based on 9th grade entry course.
- **Students must complete two credits of the same world language for admission to University System of Georgia institutions.**
- **Students should complete a CTAE pathway and take the related end of pathway assessment.**

**NOTE:** Local systems offer core courses in a different sequence; not all local systems offer every pathway. Students should explore all credit possibilities including Georgia’s Virtual School Program, Dual Enrollment, Advanced Placement (AP), International Baccalaureate (IB) and Work-Based Learning (WBL) to reach their educational and career goals.
### SAMPLE Pathway OCCUPATIONS

See *Georgia's HOT Careers to 2020* for more information on high-skilled, high-wage and high-demand occupations.

<table>
<thead>
<tr>
<th>Occupation Specialties</th>
<th>Entry Level of Education Needed</th>
<th>2012 Annual Wage</th>
<th>Annual Openings 2012-2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sales Representatives</td>
<td>Bachelor’s Degree</td>
<td>$72,700</td>
<td>550</td>
</tr>
<tr>
<td>Loan Officers</td>
<td>Bachelor’s Degree</td>
<td>$56,300</td>
<td>300</td>
</tr>
<tr>
<td>Farm and Ranch Managers</td>
<td>Bachelor’s Degree</td>
<td>$69,300</td>
<td>450</td>
</tr>
</tbody>
</table>

Source: Georgia Department of Labor/ONET

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### For more information about your education and career planning, including valuable financial aid information that includes grants and scholarships, see your school counselor.

### ****Current Georgia Graduation Rule

<table>
<thead>
<tr>
<th>Coursework</th>
<th>Credits</th>
<th>Coursework</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>I. English/Language Arts</td>
<td>4</td>
<td>V. Health &amp; Physical Education</td>
<td>1</td>
</tr>
<tr>
<td>II. Math</td>
<td>4</td>
<td>VI. <strong>Career, Technical &amp; Agricultural Education and/or</strong></td>
<td>3</td>
</tr>
<tr>
<td>III. *Science</td>
<td>4</td>
<td>VII. World Languages, and/or Fine Arts</td>
<td>4</td>
</tr>
<tr>
<td>IV. Social Studies</td>
<td>3</td>
<td>TOTAL 23</td>
<td></td>
</tr>
</tbody>
</table>

*Selected 4th Science courses may be used to meet both the required science and required elective in a CTAE sequence of courses.

**Students must complete three credits to complete a CTAE pathway and take the end of pathway assessment.

***Students must complete two credits of the same world languages for admission to Georgia Board of Regents colleges/universities.

****Current graduation requirements should be met in all content areas.

NOTE: This plan represents minimum graduation requirements. Local systems may require additional coursework.

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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](http://www.usg.edu/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 take the COMPASS test for admissions.

- Students who will continue their education and training in the US Military should take the ASVAB assessment.

- Students should utilize electronic college and career data bases 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 Move On When Ready, in which high school students may earn their high school course credits while taking college courses.

### Possible Student Pathway Credentialing Opportunities:

Students completing a pathway are eligible to take a Credentialing/End of Pathway Assessment (EOPA) upon successful completion of the three required courses in the pathway. For specific assessment information, refer to [http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/CTAE-Georgia-Assessments.aspx](http://www.gadoe.org/Curriculum-Instruction-and-Assessment/CTAE/Pages/CTAE-Georgia-Assessments.aspx)

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### Agribusiness Systems

Agribusiness refers to a range of activities associated with the food production industry, including farming, seed supply, agrichemicals, farm machinery, wholesale and distribution, processing, marketing and retail sales. Managers in agribusiness must address complex issues of changing farm operations, water efficiency, herbicide use, and financial structures.

Agricultural managers oversee the activities of farms, ranches, nurseries, timber tracts, greenhouses, or other agricultural corporations. Their duties and responsibilities vary greatly, but the primary focus is the business of food production, a business strongly influenced by weather, disease, and price fluctuation. Managers address issues not only about crop-production but also about changes in financial and lending practices, market conditions, and trade/economic policies.

Farm and home management advisors provide advice to individuals concerning their homes and farms, including care for livestock, crop growth and harvest, use of complex machinery, the sale of farm products, and the application of appropriate technology. Advisors solve problems for their clients by helping them use appropriate techniques or apply results of research, such as findings on crop rotation.

Agriculture managers and advisors do not perform daily production activities. They may establish production goals, monitor marketing activities, determine transportation requirements, and oversee equipment needs, depending upon the type of farm, ranch, or agricultural corporation. Managers and advisors usually earn at least a bachelor's degree in agricultural business and management, plant science, or a related field. As new types of farming practices grow in importance (such as organic, horticulture and aquaculture farming) and as modern farming becomes increasingly complex, the need for agribusiness managers will continue to grow. Managers can enhance their professional status through voluntary certification as an Accredited Farm Manager (AFM) by the American Society of Farm Managers and Rural Appraisers.

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### *Related Pathway Occupations:

- Agricultural Loan Officers
- Agricultural Sales Representatives
- Farm and Home Management Advisors
- Conservation Scientists
- Farm and Ranch Managers
- Agricultural Business Manager

### Other Related Agriculture, Food, & Natural Resources Occupations:

- Instructional Coordinators
- Agricultural Sciences Teachers
- Forestry and Conservation Science Teachers
- Soil and Plant Scientists

*ONET Online*