# Student Plan of Study – Ag Leadership in Food Product Processing

**Name____________________________**  
**School______________________________________**  
**Signature_____________________________**  
**Date_____________**

**Current Area of Interest:**  
Ag Leadership in Food Product Processing - 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.

<table>
<thead>
<tr>
<th>Grade Level</th>
<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>
</table>
| 9th         | 1 CCGPS Cord Algebra     | 1 Biology or Approved Dual Enrollment Course | American Government/Civics or AP Government/Politics US or Approved Dual Enrollment Course | 1 Health                       | 1 Credit Earned                                                                                    | **Advanced Academic Pathways**  
**English/Language Arts, Math, Science, Social Studies**  
An advanced academic pathway may be followed in any one of the content subjects listed above. Upon graduation, students earn an advanced academic pathway when they complete the required coursework to include at least one AP or one IB or one Dual Enrollment course. An advanced academic pathway should also include at least two credits in one world language. AP: Dual Enrollment and Georgia Virtual School courses may be available. |
| 10th        | 1 CCGPS Analytic Geometry | 1 Physical Science or AP Physics or Physics or Approved Dual Enrollment Course | World History or AP World History or Approved Dual Enrollment Course | 1 World Language Pathways       | 1 Credit Earned                                                                                    | **World Language Pathways**  
**Specialized Language Pathways**  
**Fine Arts/Performing Arts Pathways**  
**Visual Arts, Dance, Music, Journalism, Theatre**  
**A fine arts pathway may be followed in any one of the five areas listed above. A student should consult a counselor or advisor for related coursework. AP: Dual Enrollment and Georgia Virtual School courses may be available.** |
| 11th        | 1 CCGPS Adv Algebra      | 1 Chemistry or Environmental Science or Earth Systems or AP/IB or Approved Dual Enrollment Course | United States History or AP US History or IB History of the Americas or Approved Dual Enrollment Course | 1 World Language Pathways       | 1 Credit Earned                                                                                    | **Fine Arts/Performing Arts Pathways**  
**Visual Arts, Dance, Music, Journalism, Theatre**  
A fine arts pathway may be followed in any one of the five areas listed above. Upon graduation, students complete a fine arts/performing arts pathway when three courses have been successfully completed in any one of the five areas. A student should consult a counselor or advisor for related coursework. AP: Dual Enrollment and Georgia Virtual School courses may be available. |
| 12th        | 1 CCGPS Pre-Calculus     | Any other of the previous courses or Zoology or Ecology or Approved Dual Enrollment Course | Econ/Business/Free Enterprise or AP Macro Econ or AP Micro Econ or IB Econ or Approved Dual Enrollment | 1 Credit Earned                     | 1 Credit Earned                                                                                    | **Science: Approved 4th Sciences 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.** |

At the end of the 11th grade, students planning to enter a University System of Georgia Institution or Technical College System of Georgia Institution should take the appropriate admissions test (SAT, ACT, Compass).  

**Legend:**  
*Science: Approved 4th Sciences 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.**
### SAMPLE Pathway OCCUPATIONS

See *Georgia’s HOT Careers to 2030* 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>Food Scientists and Technologists</td>
<td>Bachelor’s Degree</td>
<td>$48,000</td>
<td>10</td>
</tr>
<tr>
<td>Food Science Technicians</td>
<td>High School Diploma</td>
<td>$30,300</td>
<td>20</td>
</tr>
<tr>
<td>First-Line Supervisors of Food Preparation and Serving Workers</td>
<td>High School Diploma</td>
<td>$29,200</td>
<td>1,030</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. <strong>World Languages, and/or Fine Arts</strong></td>
<td>4</td>
</tr>
<tr>
<td>IV. Social Studies</td>
<td>3</td>
<td>TOTAL</td>
<td>23</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.usa.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 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.

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### 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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### Related Pathway Occupations:

- Food Scientists and Technologists
- First-Line Supervisors of Food Preparation and Serving Workers
- Dietetic Technicians
- Chefs and Head Cooks
- Butchers and Meat Cutters
- Bakers
- Dietitians

*ONET Online

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### Ag Leadership in Food Product Processing

The Ag Leadership in Food Product Processing pathway is one of thirty-four pathways in the Agriculture, Food, and Natural Resources Career Cluster. Popular careers in the food product processing area are food scientists, food science technicians, and supervisors of food preparation and serving workers.

- Food scientists and technologists usually work in the food processing industry, universities, or the Federal Government and help to meet consumer demand for food products that are healthful, safe, palatable, and convenient. They also develop ways to process, preserve, package, or store food according to industry and government regulations.

- Food technologists generally work in product development, applying the findings from food science research to the selection, preservation, processing, packaging, distribution, and use of safe, nutritious, and wholesome food.

- The work of agricultural food scientists plays an important role in maintaining the nation’s food supply by ensuring agricultural productivity and the safety of the food supply. Agricultural food scientists may study farm crops and animals and develop ways of improving their quantity and quality. They research methods of converting raw agricultural commodities into attractive and healthy food products for consumers.

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Richard Woods, Georgia’s School Superintendent

*“Educating Georgia’s Future”*