**Student Plan of Study – Plant and Floriculture Systems**

**Name____________________________ Date________________ School_________________________________________**

**Parent/Guardian Signature________________________ Date________________ Advisor/Counselor Signature________________________ Date________________

Current Area of Interest: - **Agriculture, Food & Natural Resources/Plant and Floriculture 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.

<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>
<tbody>
<tr>
<td>9th Literature &amp; Composition or Approved Dual Enrollment Course</td>
<td>1 credit Credit Earned ✔</td>
<td>1 credit Credit Earned ✔</td>
<td>1 credit *</td>
<td>1 credit *</td>
<td>American Government/Civics or AP Government/Politics US or Approved Dual Enrollment Course</td>
<td>Health ½ credit Credit Earned ✔</td>
</tr>
<tr>
<td>10th Literature &amp; Composition or World Literature &amp; Composition or Approved Dual Enrollment course</td>
<td>1 credit Credit Earned ✔</td>
<td>1 credit Credit Earned ✔</td>
<td>1 credit *</td>
<td>1 credit *</td>
<td>Physical Science or Physics or AP Physics or Approved Dual Enrollment Course</td>
<td>World History or AP World History or Approved Dual Enrollment Course 02.47100 Basic Ag Science or Approved Dual Enrollment Course 1 credit</td>
</tr>
<tr>
<td>11th American Literature/ Composition or AP English Language &amp; Composition/ American Lit or Approved Dual Enrollment Course</td>
<td>1 credit Credit Earned ✔</td>
<td>1 credit Credit Earned ✔</td>
<td>1 credit *</td>
<td>1 credit *</td>
<td>Chemistry or Environmental Science or Earth Systems or APIB or Approved Dual Enrollment Course</td>
<td>United States History or AP US History or IB History of the Americas or Approved Dual Enrollment Course 01.46100 General Horticulture &amp; Plant Science or Approved Dual Enrollment Course 1 credit</td>
</tr>
<tr>
<td>12th Advanced Composition or British Literature or AP/IB English Literature &amp; Composition or Approved Dual Enrollment Course</td>
<td>1 credit Credit Earned ✔</td>
<td>1 credit Credit Earned ✔</td>
<td>1 credit *</td>
<td>1 credit *</td>
<td>CCGPS Pre-Cal or Adv Math Decision Making or Math of Ind &amp; Gov or AP Statistics or IB Math or Approved Dual Enrollment Course</td>
<td>Econ/Finance/Bus or AP Micro Econ or AP Macro Econ or AP IB Econ or Approved Dual Enrollment Course 1 credit</td>
</tr>
<tr>
<td>Other English Elective Courses: Literary Types/Composition Journalism Oral/Written Communication Speech</td>
<td>1 credit Credit Earned ✔</td>
<td>1 credit Credit Earned ✔</td>
<td>1 credit *</td>
<td>1 credit *</td>
<td>CCGPS Pre-Cal or Adv Math Decision Making or Math of Ind &amp; Gov or AP Statistics or IB Math or Approved Dual Enrollment Course</td>
<td>Econ/Finance/Bus or AP Micro Econ or AP Macro Econ or AP IB Econ or Approved Dual Enrollment Course 1 credit</td>
</tr>
</tbody>
</table>

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 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 may 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>Plant and Soil Scientists</td>
<td>Bachelor's Degree</td>
<td>$68,900</td>
<td>10</td>
</tr>
<tr>
<td>Nursery and Greenhouse Managers</td>
<td>Bachelor's Degree</td>
<td>$69,300</td>
<td>450</td>
</tr>
<tr>
<td>Agricultural Teachers</td>
<td>Bachelor's Degree</td>
<td>$90,400</td>
<td>10</td>
</tr>
</tbody>
</table>

Source: Georgia Department of Labor/ONET

### 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**

| I. English/Language Arts       | 4 | V. Health & Physical Education | 1 |
| II. Math                      | 4 | VI. **Career, Technical & Agricultural Education and/or** | 3 |
| III. *Science                 | 4 | VII. Electives                | 4 |
| IV. Social Studies            | 3 | TOTAL                         | 23 |

*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.

### 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. Admission’s testing varies from institution to institution. Students should contact the selected institution for specific testing information. Additional admissions information can be found at Staying On Course, [www.usg.edu/student_affairs/documents/Staying_on_Course.pdf](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)

### Related Pathway Occupations:

- Farm and Home Management Advisors
- Environmental Scientists
- Hydrologists
- Biologists
- Food Scientists and Technologists
- Landscape Architects
- Crop Farmworkers and Laborers
- Agricultural Technicians

Other Related Agriculture, Food, & Natural Resources Occupations:

- Nursery Workers
- Agricultural Sciences Teachers
- Farm and Ranch Managers
- Vocational Education Teachers

*ONET Online

### Plant and Floriculture Systems

A career in plant science and floriculture offers a variety of job opportunities in the fields of education, research, golf and sports turf, landscape design, parks and gardens, public service, production management, and sales and marketing. Some jobs available include landscape designer, greenhouse manager, golf course superintendent, plant breeder, florist, agricultural chemical researcher and garden center owner.

Educational requirements in this field vary by job. Two- and four-year programs are available in this area. Advanced degrees may be necessary for some research-related jobs.

Those who are interested in this field should be able to carry out projects and work independently, have a commitment to quality and customer service, have an appreciation of our natural environment and have good communication skills, both written and verbal.

Employment opportunities in this field should be good, with more job openings than job seekers. Employment is expected to increase in response to the increasing demand for both products and services by commercial producers, landscape contractors, turf managers and the general public. New avenues of research in biotechnology to develop plant and food crops that require less fertilizer, fewer pesticides and herbicides, and less water will also increase the demand for careers in plant science and horticulture.