### Student Plan of Study – Plant and Floral Design Systems

**Current Area of Interest:** Agriculture, Food & Natural Resources/Plant and Floral Design 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

<table>
<thead>
<tr>
<th>Grade</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 CCGPS  | 1 Biology/  | 1 American       | 1 Health                 | **Advanced Academic Pathways**  
|       | 2 CCGPS Analytic        |          | Approved     | 2 Government     | ½ credit                | English/Language Arts, Math, Science, Social Studies  
|       | Geometry                |          | Dual Enrollment Course | Civics or AP      | Credit Earned            | 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.  
|       | 3 CCGPS Accel Cord      |          | World History or AP World History or Approved Dual Enrollment Course | Government/Politics US or Personal Fitness | Credit Earned            | AP: Dual Enrollment and Georgia Virtual School courses may be available.  
|       | Algebra/Analytic Geometry |          | or Advanced Algebra/Analytic Geometry | or Approved Dual Enrollment Course | ½ credit                | **World Language Pathways**  
|       | 4 CCGPS Accel Analytic  |          | 1 credit     | 1 credit          | Credit Earned            | **Fine Arts/Performing Arts Pathways**  
|       | Geometry B/Adv. Algebra  |          |              |                  |                          | Visual Arts, Dance, Music, Journalism, Theatre  
|       | 1 credit *              |          |              |                  |                          | 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.  
|       | Credit Earned           |          |              |                  |                          | AP: Dual Enrollment and Georgia Virtual School courses may be available.  
| 10th  | 1 CCGPS Analytic        |          | Physical Science | World History or AP World History or Approved Dual Enrollment Course | 1 credit                  | **Legend:**  
|       | Geometry                |          | or Physics or AP Physics or Approved Dual Enrollment Course | or Approved Dual Enrollment Course | 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.  
|       | 2 CCGPS Advanced        |          | World History or AP World History or Approved Dual Enrollment Course | History of the Americas or Approved Dual Enrollment Course | ½ credit                | **Math: Select Math sequence 1, 2, 3, 4, based on 9th grade entry course.**  
|       | Algebra                  |          | or Advanced Algebra/Analytic Geometry | or Approved Dual Enrollment Course | Credit Earned            | **Students must complete two credits of the same world language for admission to University System of Georgia institutions.**  
|       | 3 CCGPS Accel Analytic  |          | 1 credit     | 1 credit          | Credit Earned            | **Students should complete a CTAE pathway and take the related end of pathway assessment.**  
|       | Geometry/Adv. Algebra   |          |              |                  |                          | **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.**  
|       | 4 CCGPS Pre-Calculus    |          |              |                  |                          |  
|       | 1 credit                |          |              |                  |                          |  
|       | Credit Earned           |          |              |                  |                          |  
| 11th  | 1 CCGPS Adv. Algebra    |          | Chemistry or | United States History or | 01.46100 General Horticulture & Plant Science or Approved Dual Enrollment Course |  
|       | 2 CCGPS Pre-Calculus    |          | Environmental Science | AP US History or IB  | 1 credit                  |  
|       | 3 CCGPS Accel Pre-Cal   |          | or Earth Systems or APR or Approved Dual Enrollment Course | History of the Americas or Approved Dual Enrollment Course | Credit Earned            |  
|       | 4 CCGPS Cal or AP Cal   |          | or APB or Approved Dual Enrollment Course | or Approved Dual Enrollment Course | ½ credit                |  
|       | 1 credit                |          | 1 credit     | 1 credit          | Credit Earned            |  
|       | Credit Earned           |          |              |                  |                          |  
| 12th  | 1 CCGPS Pre-Cal or Adv  |          | Any other of  | Econ/Business/Free  | 01.49600000 Floral Design and Management or Approved Dual  
|       | Math Decision Making or |          | the previous courses or | Enterprise or AP Macro | Enrollment Course         |  
|       | Math of Ind & Gov or AP |          | Zoology or Ecology or Approved Dual Enrollment Course | Econ or AP Micro Econ or | 1 credit                  |  
|       | Stat or IB Math or      |          | Approved Dual Enrollment Course | Approved IB Econ or Dual | Credit Earned            |  
|       | Approved Dual Enrollment Course | 1 credit * |                  | Enrollment Course | ½ credit                |  
|       | 1 credit                |          |              |                  | Credit Earned            |  
|       | Credit Earned           |          |              |                  |                          |  

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**Sample Elective Courses:**  
- Literary Types/Composition Journalism  
- Oral/Written Communication Speech  

**Other English Elective Courses:**  
- Calculus  
- AP Calculus  
- Math of Finance  

**Other Math Elective Courses:**  
- Genetics or APB  
- Science or Microbiology  
- Entomology  

**Other Science Elective Courses:**  
- Current Issues or APB  
- Soc Studies or Sociology or World Geography  

**Other Social Studies Elective Courses:**  
- Current Issues or APB  
- Soc Studies or Sociology or World Geography  

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**At the end of the 11th grade, students planning to enter a University System of Georgia Institution or Technical College System of Georgia institution shall 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.**
- **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>Floral Designers</td>
<td>High School Diploma</td>
<td>$24,700</td>
<td>60</td>
</tr>
<tr>
<td>Nursery Workers</td>
<td>High School Diploma</td>
<td>$18,200</td>
<td>490</td>
</tr>
<tr>
<td>Nursery and Greenhouse Managers</td>
<td>Bachelor’s Degree</td>
<td>$69,300</td>
<td>450</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.

#### **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. **Career, Technical &amp; Agricultural Education and/or **</td>
<td>3</td>
</tr>
<tr>
<td>III. <em>Science</em></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</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.

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 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)

*Related Pathway Occupations:*
- Floral Designers
- Nursery Workers
- Nursery and Greenhouse Managers
- Soil and Plant Scientists
- Crop Farmworkers and Laborers
- Landscaping and Groundskeepers
- Agricultural Science Teachers
- Career/Technical Teachers

*Other Related Agriculture, Food, & Natural Resources Occupations:*
- Farm and Ranch Laborers
- Biologists
- First-Line Supervisors of Agricultural Crop and Horticulture Workers

*ONET Online

**Plant and Floral Design Systems**

A career in plant science and floral design systems 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.