# Student Plan of Study – Web and Digital Design

**Current Area of Interest:** Information Technology/Web and Digital Design  - 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>Year</th>
<th>English/Language Arts</th>
<th>Math</th>
<th>Science</th>
<th>Social Studies</th>
<th>Health/Personal Fitness</th>
<th>Possible Electives in Additional Pathways</th>
</tr>
</thead>
</table>
| 9th  | 1 CCGPS Cord. Algebra 2 CCGPS Analytic Geometry 3 CCGPS Accel Cord. Algebra/Analytic Geometry 4 CCGPS Accel Analytic Geometry B/Adv Algebra 1 credit | 1 CCGPS Card. Algebra 2 CCGPS Analytic Geometry 3 CCGPS Accel Cord. Algebra/Analytic Geometry 4 CCGPS Accel Analytic Geometry B/Adv Algebra 1 credit | Biology or Approved Dual Enrollment Course | American Government/Civics or AP Government/Politics US or Approved Dual Enrollment Course | Health 1/2 credit | **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 2 CCGPS Adv. Algebra 3 CCGPS Accel Analytic Geometry/Adv. Algebra 4 CCGPS Pre-Calculus 1 credit | Physical Science or Physics or AP Physics or Approved Dual Enrollment Course | World History or AP World History or Approved Dual Enrollment Course | World History or AP World History or Approved Dual Enrollment Course 1 credit | 1 credit | **World Language Pathways** **Two credits are required for admissions to University System Institutions.** For a listing of world language courses offered at your high school, please check with your advisor, counselor, or local course description catalog. A world language pathway may be followed in any of the world language areas included in the state list of approved courses. Upon graduation, students earn a world language pathway when they complete three credits in one language. The third course may reflect an AP, IB or Dual Enrollment designation.

**Georgia Virtual School and Accel courses may be available.**

| 11th | 1 CCGPS Adv. Algebra 2 CCGPS Pre-Calculus 3 CCGPS Accel Pre-Cal 4 CCGPS Calc or AP Calc 1 credit | *Chemistry or Environmental Science or Earth Systems or AP/B or Approved Dual Enrollment Course | United States History or AP US History or IB History of the Americas or Approved Dual Enrollment Course | 11.45100 Intro to Digital Technology or Approved Dual Enrollment Course | 1 credit | **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 | CCGPS Pre-Cal or Calculus or AP Calc or AP Stats or IB Math or Approved Dual Enrollment Course 1 credit | Any other of the previous courses or AP Computer Science or Approved Dual Enrollment Course 1 credit | Econometrics/Free Enterprise or AP Macroecon or AP Microecon or IB Econ or Approved Dual Enrollment Course 1/2 credit | 11.45200 Web Design or Approved Dual Enrollment Course | 1 credit | **Other CTAE Elective Courses** Other CTAE elective courses are available to complete a related pathway

**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>Web Developers</td>
<td>Bachelor’s Degree</td>
<td>$68,200</td>
<td>190</td>
</tr>
<tr>
<td>*Computer System Analysts</td>
<td>Bachelor’s Degree</td>
<td>$73,800</td>
<td>810</td>
</tr>
<tr>
<td>Computer Programmers</td>
<td>Bachelor’s Degree</td>
<td>$75,400</td>
<td>230</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***

<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</td>
<td>3</td>
</tr>
<tr>
<td>III. *Science</td>
<td>4</td>
<td>and/or ***World Languages, and/or Fine Arts</td>
<td>4</td>
</tr>
<tr>
<td>IV. Social Studies</td>
<td>3</td>
<td>VII. Electives</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></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 language 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 may vary from institution to institution. 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 databases 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).

### Other Related Information

**Technology Occupations:**

- Web Administrators
- Computer & Information Systems Managers
- Computer Network Architects
- Computer Operators

*ONET Online

### Web and Digital Design

Information is valuable only when it is understood and utilized. Workers in digital media design bring ideas to life through technology, whether creating a web site, a training video or designing the latest computer game or mobile application.

Careers in web and digital communications involve creating, designing and producing interactive multimedia products and services, including the development of digitally-generated or computer-enhanced media used in business, training, entertainment, communications and marketing. Sample interactive media occupations include web designer, webmaster, 3D animator, virtual reality specialist, multimedia producer and graphic artist.

Organizations of all types and sizes use digital media to communicate with existing and potential customers, to track transactions and to collaborate with colleagues. Interactive media experts can find employment opportunities in organizations of all sizes and types due to the rate of technology change in business and reliance on mobile technology.

Job prospects in the motion picture and video industry are excellent for multimedia artists and animators, film and video editors and others skilled in digital filming and computer-generated imaging. Graphic designers with website design and animation experience will have good job opportunities. A bachelor’s degree is required for most entry-level positions. However, an associate’s degree may be sufficient for technical positions.

Most primary occupations in the field will have numerous job openings in the coming years. The web is fast becoming a way of life for most of the world. Therefore, the industry is continually looking for bright, well-educated individuals to develop faster and more efficient processes for creating and delivering information.