**Student Plan of Study – Therapeutic Services–Surgical Technology**

**Current Area of Interest:** Health Science/Therapeutic Services–Surgical Technology - 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.

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 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:** Selected Math sequence 1, 2, 3, 4, based on 9th grade entry course.
- **English:** 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.

---

<table>
<thead>
<tr>
<th>Grade Level</th>
<th>I. English/Language Arts Total 4 credits</th>
<th>II. Math Total 4 credits</th>
<th>III. Science Total 4 credits</th>
<th>IV. Social Studies Total 3 credits</th>
<th>V. Health/Personal Fitness Total 1 credit</th>
<th>VIII. Possible electives in additional pathways (students should check the local course description catalog for these and other electives) Total 4 credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>9th</td>
<td>1 CCGPS Cord Algebra</td>
<td>1 CCGPS/Aalytic Geom</td>
<td>1 CCGPS/Aalytic Geom or D.</td>
<td>American</td>
<td>Health</td>
<td>Advanced Academic Pathways</td>
</tr>
<tr>
<td></td>
<td>1 credit</td>
<td>1 credit</td>
<td>1 credit</td>
<td>½ credit</td>
<td>Credit Earned</td>
<td>English/Language Arts, Math, Science, Social Studies</td>
</tr>
<tr>
<td></td>
<td><strong>Credit Earned</strong></td>
<td>Credit Earned</td>
<td>Credit Earned</td>
<td></td>
<td><strong>Credit Earned</strong></td>
<td></td>
</tr>
<tr>
<td>10th</td>
<td>1 CCGPS Analytic Geometry</td>
<td>1 CCGPS/Aalytic Geom</td>
<td>1 CCGPS/Aalytic Geom or D.</td>
<td>World History/Art History or</td>
<td>World History/Art History/Approved Dual</td>
<td>World Language Pathways</td>
</tr>
</tbody>
</table>
|             | 1 credit                                   | 1 credit                  | 1 credit                   | Approved Dual Enrollment Course | Enrollment Course                      | **Two credits are required for admissions to University System Institutions.**
|             | **Credit Earned**                          | Credit Earned             | Credit Earned              | 1 credit                        | Credit Earned                           |                                                               |
|             | **Credit Earned**                          | Credit Earned             | Credit Earned              |                                | **Credit Earned**                        |                                                               |
| 11th        | 1 CCGPS Pre-Calculus                       | 1 CCGPS/Aalytic Geom     | 1 CCGPS/Aalytic Geom or D. | United States History or IB    | World History/Art History/Approved Dual | 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. |
|             | 1 credit                                   | 1 credit                  | 1 credit                   | History of the Americas or     | Enrollment Course                      |                                                               |
|             | **Credit Earned**                          | Credit Earned             | Credit Earned              | Approved Dual Enrollment Course| Credit Earned                           |                                                               |
|             | **Credit Earned**                          | Credit Earned             | Credit Earned              |                                | **Credit Earned**                        |                                                               |
| 12th        | 1 CCGPS Pre-Cal or Calculus                | 1 CCGPS/Aalytic Geom     | 1 CCGPS/Aalytic Geom or D. | Econ/Business/Free              | 25.44700 Surgical                      | Fine Arts/Performing Arts Pathways                           |
|             | 1 credit                                   | 1 credit                  | 1 credit                   | Enterprise or AP Econ or AP    | Technician I or Approved Dual          | Visual Arts, Dance, Music, Journalism, Theatre                |
|             | **Credit Earned**                          | Credit Earned             | Credit Earned              | Metric Econ or IB Econ or      | Enrollment Course                      |                                                               |
|             | **Credit Earned**                          | Credit Earned             | Credit Earned              | IB Econ or Approved Dual       | Credit Earned                           |                                                               |
|             | **Credit Earned**                          | Credit Earned             | Credit Earned              | Enrollment Course              | **Credit Earned**                        |                                                               |

**Sample Elective Courses:**

- Literary Types/Composition Journalism
- Oral/Written Communication Speech
- Other Math Elective Courses:
  - Adv Math Decision Making
  - Math of Ind & Govern
  - Math of Finance
- Other Science Elective Courses:
  - Microbiology or AP Biology
  - Science or Genetics or Biochemistry
  - Organic Chemistry
- Other Social Studies Elective Courses:
  - Humanities or APIB Soc Studies or Current Issues
  - Psychology or Sociology
- Other CTAE Elective Courses:
  - Other CTAE courses are available to complete a related pathway

**Legend:**

- **Credit Earned**

---

**Health Science**
**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>Surgical Technologists</td>
<td>Some College No Degree</td>
<td>$38,300</td>
<td>130</td>
</tr>
<tr>
<td>Surgical Assistants</td>
<td>Some College/ or Associates Degree</td>
<td>$37,500</td>
<td>20</td>
</tr>
<tr>
<td>Diagnostic Medical Sonographers</td>
<td>Associate’s Degree</td>
<td>$59,600</td>
<td>70</td>
</tr>
</tbody>
</table>

Source: Georgia Department of Labor/ONET

### Surgical Technology

Careers in the Therapeutic Services pathway are focused primarily on changing the health status of the patient over time. Health professionals in this pathway work directly with patients and may provide care, treatment, counseling and health education information. National labor market information indicates that eight out of the top twenty fastest-growing occupations are in the Health Science industry. (OOH)

Based on an aging population and a retiring workforce, the demand for health care workers will remain high through 2020. As careers in Therapeutic Services change, professionals in this pathway will find increased opportunities to work independently. Additionally, an increasing number of career opportunities are becoming available outside of the traditional hospital setting.

Educational levels vary from occupation to occupation. Most Health Science occupations require additional education after high school and require that potential employees acquire the appropriate certification and/or licensing.

Workers in the Health Science industry must have a solid background in math, science, communications, and technical skills, be knowledgeable in their subject area, have the ability to communicate with others, and inspire trust and confidence.

Occupations in the Health Sciences represent the largest and fastest-growing industry in the United States employing over 10 million workers in more than 200 careers. Surgical technologists and surgical assistants are jobs with bright outlooks. Workers in these areas assist in operations under the supervision of surgeons, registered nurses, or other surgical personnel. They may help set up operating rooms, prepare and transport patients for surgery, adjust lights and equipment, pass instruments and other supplies to surgeons and surgeon’s assistants, hold retractors, cut sutures, and help count sponges, needles, supplies, and instruments.

Rapid job growth is expected in hospital outpatient facilities, such as same-day surgery, rehabilitations, and chemotherapy.

---

**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>VII. Electives</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 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)

---

**Related Pathway Occupations:**

- Phlebotomists
- Medical Lab Assistants
- Patient Service Techs (PST)
- Phlebotomy Supervisors

**Other Related Health Science Occupations:**

- Registered Nurses
- Information Nurse Specialists
- Nuclear Techs
- Registered Nurses
- Physicians
- Respiratory Technicians
- Radiologic Technologists

*ONET Online