### Student Plan of Study – Diagnostics - Phlebotomy

**Name**: 

**Parent/Guardian Signature**: 

**Date**: 

**School**: 

**Advisor/Counselor Signature**: 

**Date**: 

**Current Area of Interest**: Health Science/Diagnostics - Phlebotomy - 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.

**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**: Select Math sequence 1, 2, 3, 4, based on 9th grade entry course. **Students must complete two credits of the same world language for admissions to University System of Georgia institutions.**  
- **Advanced Placement (AP)**, **International Baccalaureate (IB)** and **Work-Based Learning (WBL)** to reach their educational and career goals.  
- **Note**: Local systems may offer 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>VII. Possible electives in additional pathways (students should check the local course description catalog for these and other electives) Total 4 credits</th>
</tr>
</thead>
</table>
| 9           | 9th Literature & Composition or Approved Dual Enrollment Course | 1 CCGPS Cord Algebra | Biology or Approved Dual Enrolment Course | American Government/Civics or AP Government/Policies US or Approved Dual Enrollment Course | Health ½ credit | **Advanced Academic Pathways** (English/Language Arts, Math, Sciences, 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. |
| 10          | 10th Literature & Composition or World Literature & Composition or Approved Dual Enrollment Course | 1 CCGPS Analytic Geometry | Physical Science or Physics or AP Physics or Approved Dual Enrollment Course | World History or AP World History or Approved Dual Enrollment Course | 25.52100 Intro to Healthcare Science or Approved Dual Enrollment Course | **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. |
| 11          | American Literature/Compostion or AP English Language & Composition or Advanced Placement American Lit or Approved Dual Enrollment Course | 1 CCGPS Adv. Algebra | Chemistry or Environmental Science or Earth Systems or AP or Approved Dual Enrollment Course | United States History or AP US History or IB History of the Americas or Approved Dual Enrollment Course | 25.44000 Essentials of Healthcare or Approved Dual Enrollment Course | **Fine Arts/Performing Arts Pathways**  
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. |
| 12          | Advanced Composition or British Literature or AP IB English Literature & Composition or Composition or Advanced Placement or Dual Enrollment Course | CCGPS Pre-Cal or Calculus or AP Calculus or AP Statistics or IB Math or Approved Dual Enrollment Course | Microbiology or Human Anatomy & Physiology or Epidemiology or Approved Dual Enrollment Course | Econ/Business/Free Enterprise or AP Macro Econ or AP Micro Econ or IB Econ or Approved Dual Enrollment Course | 25.57400 Diagnostics Phlebotomy or Approved Dual Enrollment Course | **Note**: Local systems may offer 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. |

### Other CTAE Elective Courses:  
**Other CTAE Elective Courses:** Other CTAE courses are available to complete a related pathway.

<table>
<thead>
<tr>
<th>Sample Elective Courses</th>
<th>Other Science Elective Courses:</th>
<th>Other Social Studies Elective Courses:</th>
<th>Other English Elective Courses:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Literary Types/Composition Journalism Oral/Written Communication Speech</td>
<td>Microbiology or AP IB Science or Genetics or Biochemistry or Organic Chemistry</td>
<td>Current Issues or AP IB Soc Studies or Psychology or Sociology or Humanities</td>
<td>Adv Math Decision Making Math of Ind &amp; Govern Math of Finance</td>
</tr>
</tbody>
</table>
**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>Phlebotomists</td>
<td>Some College No Degree Required</td>
<td>$27,900</td>
<td>70</td>
</tr>
<tr>
<td>Cardiovascular Technologist &amp; Technicians</td>
<td>Associate’s Degree</td>
<td>$51,600</td>
<td>50</td>
</tr>
<tr>
<td>Medical Lab Assistants</td>
<td>Associate’s Degree</td>
<td>$36,500</td>
<td>290</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. <strong>Career, Technical &amp; Agricultural Education</strong></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>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 electric 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)

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**Diagnostics - Phlebotomy**

The Diagnostics pathway provides career opportunities for persons with a strong interest in the initial diagnostic phase of health problems. This phase includes procedures such as x-rays, fluoroscopies, sonograms, and clinical laboratory tests examining blood and other body fluids. Workers in this pathway discover “evidence” that physicians use to make correct diagnoses and administer appropriate treatment. Occupations are increasingly more varied because of complex new technology seeking to explain how the human body works.

Clinical laboratory testing is critical in the detection and diagnosis of disease. Laboratory personnel examine and analyze body fluids and cells using complex chemical, blood, immunologic, and bacteriological tests. Technologists evaluate test results and monitor programs to ensure accuracy of tests. Technicians perform less complex tests using automated analyzers or tests in accordance with detailed instructions.

Entry into the field of diagnostic services includes education/training in hospitals, technical colleges, colleges and universities, and the Armed Forces. Two-year programs are the most prevalent avenues for entry-level jobs. With experience and additional education and training, advancement opportunities exist in department administration, hospital administration, research, or sales with equipment manufacturers. As the population grows and ages, employment is projected to grow faster than average due to the increasing demand for diagnostic services.

Phlebotomists draw blood for tests, transfusions, donations, and research. They explain procedures to patients and assist in the recovery of patients with adverse reactions. Phlebotomist opportunities are expected to grow 17% nationally, with job openings for qualified phlebotomists to increase to 6,580 between 2010 and 2020. Employment in the healthcare industry is favorable for those who are qualified.

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**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*