**Student Plan of Study – Automobile Service Technology**

<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>
</table>
| 9th         | 1 CCGPS Core Alg                         | 1 CCGPS Analytic Geom     | Biology or Approved Dual Enrollment Course | American Government/Civics or AP Government/Politics U.S. or Approved Dual Enrollment Course | Health ½ credit | Advanced Academic Pathways
|             | 2 CCGPS Analytic Geom                    | 3 CCGPS Accel Core Alg/Ancient Geom | Course                                  | Course                                    | Credit Earned □ | English/Language Arts, Math, Science, Social Studies
|             | 4 CCGPS Accel Analytic Geom              | 5 CCGPS Advanced Geom/BAdv Alg | 1 credit                                  | ½ credit                                  | Personal Fitness ½ credit | 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.
|             | 1 credit                                  | 1 credit                   | 1 credit                                  | 1 credit                                  | 1 credit                  | World Language Pathways
|             | 1 credit                                  | Credit Earned □             | Credit Earned □                           | Credit Earned □                           | Credit Earned □ | **World Language Pathways**
|             | Credit Earned □                          | Credit Earned □             | Credit Earned □                           | Credit Earned □                           | Credit Earned □ | **Two credits are required for admissions to University System Institutions.**
|             | Credit Earned □                          | Credit Earned □             | Credit Earned □                           | Credit Earned □                           | Credit Earned □ | 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.
|             | Credit Earned □                          | Credit Earned □             | Credit Earned □                           | Credit Earned □                           | Credit Earned □ | Fine Arts/Performing Arts Pathways
|             | Credit Earned □                          | Credit Earned □             | Credit Earned □                           | Credit Earned □                           | Credit Earned □ | **A fine arts pathway may be followed in any one of the five areas listed above.**
|             | Credit Earned □                          | Credit Earned □             | Credit Earned □                           | Credit Earned □                           | Credit Earned □ | **Any other of the previous courses or Ecology or Geology or Approved Dual Enrollment Course**
| 10th        | 1 CCGPS Analytic Geom                    | 2 CCGPS Advanced Algebra    | Physical Science or Physics or Approved Dual Enrollment Course | World History or AP World History or Approved Dual Enrollment Course | 47.34000 Automobile Service Technology 4 or Approved Dual Enrollment Course | **A fine arts pathway may be followed in any one of the five areas listed above.**
|             | 3 CCGPS Accel Analytic Geometry/Adv. Algebra | 4 CCGPS Pre-Calculus        | 1 credit                                  | 1 credit                                  | 47.43000 Automobile Service Technology 5 or Approved Dual Enrollment Course | **Two credits are required for admission to University System Institutions.**
|             | 2 CCGPS Pre-Calculus                     | 4 CCGPS CSci or AP CSci    | 1 credit                                  | 1 credit                                  | 47.43000 Automobile Service Technology 6 or Approved Dual Enrollment Course | 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 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                                  | Credit Earned □             | Credit Earned □                           | Credit Earned □                           | Credit Earned □ | Advanced Composition or British Literature or AP/IB
|             | Credit Earned □                          | Credit Earned □             | Credit Earned □                           | Credit Earned □                           | Credit Earned □ | English Language Arts, Math, Science, Social Studies
|             | Credit Earned □                          | Credit Earned □             | Credit Earned □                           | Credit Earned □                           | Credit Earned □ | Any other of the previous courses or Ecology or Geology or Approved Dual Enrollment Course
|             | Credit Earned □                          | Credit Earned □             | Credit Earned □                           | Credit Earned □                           | Credit Earned □ | Econ/Business/Free Enterprise or AP Macro
|             | Credit Earned □                          | Credit Earned □             | Credit Earned □                           | Credit Earned □                           | Credit Earned □ | Econ or AP Micro Econ or IB Econ or Approved Dual Enrollment Course
|             | Credit Earned □                          | Credit Earned □             | Credit Earned □                           | Credit Earned □                           | Credit Earned □ | 47.43000 Automobile Service Technology 6 or Approved Dual Enrollment Course
|             | Credit Earned □                          | Credit Earned □             | Credit Earned □                           | Credit Earned □                           | Credit Earned □ | **Other Social Studies Elective Courses: Current Issues or AP/IB Soc Studies or Sociology or World Geography**
|             | Credit Earned □                          | Credit Earned □             | Credit Earned □                           | Credit Earned □                           | Credit Earned □ | **Other CTEA Elective Courses: Other CTEA electives are available to complete a related pathway**
|             | Credit Earned □                          | Credit Earned □             | Credit Earned □                           | Credit Earned □                           | Credit Earned □ | **Sample Elective Courses:** Astronomy or AP/IB Science or Meteorology
|             | Credit Earned □                          | Credit Earned □             | Credit Earned □                           | Credit Earned □                           | Credit Earned □ | Other Math Elective Courses: Calculus AP Calculus
|             | Credit Earned □                          | Credit Earned □             | Credit Earned □                           | Credit Earned □                           | Credit Earned □ | Other Science Elective Courses: Other CTEA electives are available to complete a related pathway
|             | Credit Earned □                          | Credit Earned □             | Credit Earned □                           | Credit Earned □                           | Credit Earned □ | Other English Elective Courses:

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**Legend:**
- **Advanced Placement (AP), International Baccalaureate (IB) and Work-Based Education (CTAE) sequence courses of Science, Math, English/Language Arts, Social Studies, etc.**
- **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>Automobile Technician &amp; Mechanics</td>
<td>High School</td>
<td>$33,400</td>
<td>570</td>
</tr>
<tr>
<td>Mechanical Engineering Technicians</td>
<td>Some College</td>
<td>$47,600</td>
<td>10</td>
</tr>
<tr>
<td>Automotive Body &amp; Related Repairers</td>
<td>High School</td>
<td>$40,600</td>
<td>100</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.

<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></td>
</tr>
<tr>
<td>III. *Science</td>
<td>4</td>
<td>and/or ***World Languages, and/or Fine Arts</td>
<td>3</td>
</tr>
<tr>
<td>IV. Social Studies</td>
<td>3</td>
<td>VII. Electives</td>
<td>4</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>23</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* *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.

**Selected 4th Science courses may be used to meet both the required science and required elective in a CTAE sequence of courses.

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 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 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:

- Automobile Glass Installers & Repairers
- Automobile Specialty Technicians
- Electrical & Electronics Installers & Repairers
- Electronic Equipment Installers & Repairers
- Engine and Other Machine Assemblers

### Other Related Transportation, Distribution & Logistics Occupations:

- Master Automobile Service Technicians
- Collision Repairers
- Small Engine Repairers

### Transportation, Distribution & Logistics/Automobile Service Technology

Automobile service technicians and mechanics, often called service technicians or service techs, inspect, maintain, and repair cars and light trucks. To become a master automobile mechanic, students who complete the Basic Maintenance and Light Repair pathway may take the end of pathway assessment in Maintenance and Light Repair offered by the National Institute for Automotive Service Excellence (ASE) in collaboration with NATEF/AYES/SkillsUSA. Students completing the Automobile Service Technician pathway may take the end of pathway assessment in Automotive Service Technology offered by the National Institute for Automotive Service Excellence (ASE) in collaboration with NATEF/AYES/SkillsUSA.

Most automobile service technicians and mechanics work in well-ventilated and well-lit repair shops. Although mechanical problems can often be fixed with computers, technicians perform many tasks with greasy parts and tools, while sometimes in uncomfortable positions. Service technicians work on traditional mechanical components, such as engines, transmissions, belts, and hoses. However, they must also be familiar with a growing number of electrosystems. Braking, transmission, and steering systems, for example, are controlled primarily by computers and electronic components. Other integrated electronic systems, such as accident-avoidance sensors, are becoming common as well. In addition, a growing number of technicians are required to work on vehicles that run on alternative fuels, such as ethanol and electricity.

Some employers prefer automobile service technicians and mechanics who have completed a formal training program in a postsecondary institution. Industry certification is usually required once the person is employed. Students may also consider state-registered apprenticeships for additional training after high school.

[http://www.doleta.gov/]

Employment of automobile service technicians and mechanics is expected to grow 17 percent from 2010 to 2020, about as fast as the average for all occupations. Job opportunities for qualified jobseekers should be very good.