

# Student Plan of Study – Sheet Metal



Name \_\_\_\_\_ Date \_\_\_\_\_ School \_\_\_\_\_

Parent/Guardian Signature \_\_\_\_\_ Date \_\_\_\_\_ Advisor/Counselor Signature \_\_\_\_\_ Date \_\_\_\_\_

*Current Area of Interest: **Architecture & Construction/Sheet Metal**- 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	I. English/Language Arts Total 4 credits	II. Math Total 4 credits	III. Science Total 4 credits	IV. Social Studies Total 3 credits	V. Health/Personal Fitness Total 1 credit	VII. Possible electives in additional pathways (students should check the local course description catalog for these and other electives) Total 4 credits
9	9 <sup>th</sup> Literature & Composition or Approved Dual Enrollment Course  1 credit  Credit Earned <input type="checkbox"/>	1 CCGPS Cord Algebra 2 CCGPS Analytic Geom 3 CCGPS Accel Cord Alg/Analytic Geom 4 CCGPS Accel Analytic Geometry B/Adv. Algebra 1 credit *  Credit Earned <input type="checkbox"/>	Biology or Approved Dual Enrollment Course  1 credit *  Credit Earned <input type="checkbox"/>	American Government/Civics or AP Government/ Politics US or Approved Dual Enrollment Course  ½ credit  Credit Earned <input type="checkbox"/>	Health ½ credit Credit Earned <input type="checkbox"/> Personal Fitness ½ credit Credit Earned <input type="checkbox"/> <b>VI. CTAE Pathway Total 3 credits</b>	<b>Advanced Academic Pathways</b> 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 <a href="#">Dual Enrollment</a> course. An advanced academic pathway should also include at least two credits in one world language. AP, Dual Enrollment and <a href="#">Georgia Virtual School</a> courses may be available.
	10 <sup>th</sup> Literature & Composition or World Literature & Composition or Approved Dual Enrollment Course  1 credit  Credit Earned <input type="checkbox"/>	1 CCGPS Analytic Geometry 2 CCGPS Adv Algebra 3 CCGPS Accel Analytic Geometry/Adv. Algebra 4 CCGPS Pre-Calculus 1 credit *  Credit Earned <input type="checkbox"/>	Physical Science or Physics or AP Physics or Approved Dual Enrollment Course  1 credit *  Credit Earned <input type="checkbox"/>	World History or AP World History or Approved Dual Enrollment Course  1 credit  Credit Earned <input type="checkbox"/>	46.54500 Industry Fundamentals & Occupational Safety or Approved Dual Enrollment Course  1 credit  Credit Earned <input type="checkbox"/>	
11	American Literature/ Composition or AP English Language & Composition/American Lit or Approved Dual Enrollment Course 1 credit Credit Earned <input type="checkbox"/>	1 CCGPS Adv. Algebra 2 CCGPS Pre-Calculus 3 CCGPS Accel Pre-Cal 4 CCGPS Cal or AP Cal  1 credit * Credit Earned <input type="checkbox"/>	Chemistry or Environmental Science or Earth Systems or AP/IB or Approved Dual Enrollment Course 1 credit * Credit Earned <input type="checkbox"/>	United States History or AP US History or IB History of the Americas or Approved Dual Enrollment Course  1 credit Credit Earned <input type="checkbox"/>	48.58100 Introduction to Metals or Approved Dual Enrollment Course  1 credit Credit Earned <input type="checkbox"/>	<b>Fine Arts/Performing Arts Pathways</b> 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, <a href="#">Dual Enrollment</a> and <a href="#">Georgia Virtual School</a> courses may be available.
	At the end of the 11 <sup>th</sup> 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).					
12	Advanced Composition or British Literature or AP/IB English Literature & Composition or Approved Dual Enrollment Course  1 credit Credit Earned <input type="checkbox"/>	CCGPS Pre-Cal or Adv Math Decision Making or Math of Ind & Govern or AP Stats or IB Math or Approved Dual Enrollment Course  1 credit * Credit Earned <input type="checkbox"/>	Any other of the previous courses or Ecology or Geology or Approved Dual Enrollment Course  1 credit * Credit Earned <input type="checkbox"/>	Econ/Business/Free Enterprise or AP Macro Econ or AP Micro Econ or IB Econ or Approved Dual Enrollment Course  ½ credit Credit Earned <input type="checkbox"/>	48.58200 Sheet Metal I or Approved Dual Enrollment Course  1 credit Credit Earned <input type="checkbox"/>	
Sample Elective Courses	<b>Other English Elective Courses:</b> Literary Types/Composition Journalism Oral/Written Communication Speech	<b>Other Math Elective Courses:</b> Calculus AP Calculus Math of Finance	<b>Other Science Elective Courses:</b> AP/IB Science	<b>Other Social Studies Elective Courses:</b> Current Issues or AP/IB Soc Studies or Psychology or Sociology	<b>Other CTAE Elective Courses:</b> Other CTAE electives 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 <a href="#">Georgia's Virtual School Program</a> , <a href="#">Dual Enrollment</a> , Advanced Placement (AP), International Baccalaureate (IB) and Work-Based Learning (WBL) to reach their educational and career goals.

**Architecture & Construction**

SAMPLE Pathway OCCUPATIONS			
See * <a href="#">Georgia's HOT Careers to 2020</a> for more information on high-skilled, high-wage and high-demand occupations.			
Occupation Specialties	Entry Level of Education Needed	2012 Annual Wage	Annual Openings 2012-2020
Sheet Metal Workers	High School	\$41,500	160
*Cost Estimators	Bachelor's Degree	\$57,300	210
Boilermakers	High School	\$56,700	40

Source: Georgia Department of Labor/ONET

*Related Pathway Occupations:	Other Related Architecture & Construction Occupations:
Sheet Metal Workers	Carpenters
Cost Estimators	Stone Masons
Boilermakers	Welders
Pipe Fitters & Steamfitters	Plumbers
Patternmakers, Metal & Plastic Structural & Steel	Electricians
Workers/Welding	
Layout Workers, Metal & Plastic	

\*ONET Online

**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](#)**

Coursework	Credits	Coursework	Credits
I. English/Language Arts	4	V. Health & Physical Education	1
II. Math	4	VI. **Career, Technical & Agricultural Education and/or ***World Languages, and/or Fine Arts	3
III. *Science	4	VII. Electives	4
IV. Social Studies	3	<b>TOTAL</b>	<b>23</b>

\*Selected [4<sup>th</sup> 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](http://www.usg.edu/student_affairs/documents/Staying_on_Course.pdf). ([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 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>.

**Architecture & Construction/Sheet Metal**

Sheet metal workers build and install products in duct systems, roofs, siding, rain gutters, restaurant equipment, plumbing, heating, air conditioning, and the aircraft industry. These workers study plans and specifications to determine the kind and quantity of materials they will need. Using computer-controlled saws, lasers, shears, and presses, they measure, cut, bend, and fasten pieces of sheet metal.

In shops without computerized equipment, sheet metal workers make the required calculations with tapes and rulers to lay out the work. Afterwards, they cut or stamp the parts with machine tools.

In manufacturing plants, sheet metal workers program and operate computerized metalworking equipment. For example, they may make sheet metal parts for aircraft or industrial equipment. Sheet metal workers in those jobs may be responsible for programming the computer control systems of the equipment they operate. The demand for sheet metal workers will increase as more industrial, commercial, and residential structures are built.

Employment of sheet metal workers is expected to grow 18 percent from 2010 to 2020, about as fast as the average for all occupations. Job opportunities should be particularly good for certified welders and those with apprenticeship training.

Although most sheet metal workers learn their trade through formal apprenticeships, some learn informally on the job or in technical colleges.