



# ALIQUIPPA SCHOOL DISTRICT

100 HARDING AVE., ALIQUIPPA, PA 15001

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## **Aliquippa School District Aliquippa Jr. / Sr. High School**



### **2017-2018 Senior High Curriculum**

Principal, grades 10, 11, and 12 .....	Mr. Alvin B. Gipson
Principal, grades 7, 8, and 9 .....	Mrs. Beth Smith
Counselor grades 10, 12.....	Mr. Kim Tonio
Counselor grades 9, 11 .....	Mrs. Ellen Hermes

To The Parent/Guardian and Student:

The Course Description Booklet is designed to familiarize you with what will be taught in a course, the credit(s) earned, the length of a course (year or semester), and the required prerequisites for certain course selections.

Please take time to review the courses and offerings and be certain that you are selection courses that are appropriate for your child and will fulfill all graduation requirements.

## **Scheduling Introduction**

- Students and parents/guardians should read all course descriptions
- Students must meet all course prerequisites prior to selecting a class
- Students are to fill out the grade selection sheet and have the parent/guardian's sign it.
- Incomplete student schedules will be chosen by the Guidance Office/Principal for the student
- Any changes in schedules must be made within the first three weeks of school. Any schedule change request after that time must be approved by the Principal.

Questions or concerns about scheduling can be addressed by contacting the counselors at the Jr. / Sr. High School between 7:50 a.m. and 2:50 p.m. daily.



Phone: 724-857-7515

[www.quipsd.org](http://www.quipsd.org)

## CAREER PLANNING

Career planning is best accomplished with the help of your parents, teachers, counselor and other adults who know and care for you. Key elements of career planning:

- Know the requirements for graduation.
- Talk to your parents, teachers and counselor about your interests and goals.
- Sketch out a four-year plan that you re-visit at least once a year. Include electives of interest as well as those recommended for your intended career.
- Take challenging classes; there is a direct correlation to higher ACT and SAT scores, especially for those who take four years of math and science.
- Choose electives wisely including alternates. Every effort will be made to give you your first choices, as scheduling permits.
- Schedule to take the PSAT (grade 11), the ACT or SAT at least once by the end of eleventh grade. You will be able to take them again in your senior year, if needed.
- Become involved in school activities. Attend class meetings; participate in extra-curricular activities (clubs, sports, music, art, church, community, etc.). Being involved helps you feel connected resulting in a more enjoyable school experience.
- Become involved in your community. Volunteering not only benefits your community but also fulfills one of the necessary requirements for many scholarship applications.
- Start and maintain your **Personal Profile** including: your personal goals; GPA; rank in class; school and non-school activities, sports and clubs; academic honors and awards; community involvement and volunteer work; and work experience.

## Graduation Requirements

Senior /12 grade, must earn at least 25 credits (9, 10, 11 & 12) to graduate.

Junior/11th grade, must earn at least 18 credits (9, 10, & 11) to be promoted.

Sophomore/10th grade, must earn at least 13 credits (9 & 10) to be promoted.

Freshman/9<sup>th</sup> grade, must earn at least 5 credits to be promoted.

### Requirements Beginning with the Class of 2017

All students are required to take:

- Three credits of (3) Math.
- Three credits of (3) science that must include: Biology and Physical Science or Chemistry.
- Four credits (one each year) of English.
- Four credits (one each year) of Social Studies.
- Two credits in Physical Education and .5 (1/2) in Health.
- One credit of Technology
- ½ credit of Career Seminar
- 7 Credits of electives
- Graduation Project that includes an oral presentation and written report.

Here is a chart as a guide.  
Aliquippa High School Required Core Courses

Required Courses	9 <sup>th</sup> grade	10 <sup>th</sup> grade	11 <sup>th</sup> grade	12 <sup>th</sup> grade
English ( 4 credits required)	<u>1 credit required:</u> English Lit./Comp.9 OR Eng. Lit./Comp. 9 Honors/Weighted	<u>1 credit required:</u> English Lit./Comp.10 OR Eng. Lit./Comp. 10 Honors/Weighted	<u>1 credit required:</u> American Literature OR American Lit. Honors/Weighted	<u>1 credit required:</u> British Literature OR British Lit. Honors/Weighted
Social Studies (4 credits required)	<u>1 credit required:</u> World History	<u>1 credit required:</u> U.S. History	<u>1 credit required:</u> 20 <sup>th</sup> Century America	<u>1 credit required:</u> Government/Economics
Science (3 credits required)*	<u>1 credit required:</u> Biology I/Lab OR Biology I Honors/Weighted	<u>1 credit required:</u> Chemistry/Lab OR Physical Science	<u>1 credit required:</u> Physics/Lab/Weighted OR Biology II/Lab Weighted OR Environ/Earth Sci. OR Physical Science	<u>*1 credit required only if needed for 3<sup>rd</sup> science credit</u> Biology II/Lab Weighted OR Physics/Lab/Weighted OR Physical Science OR Environ/Earth Sci.
Math (3 credits required)*  Teacher request 8 <sup>th</sup> grade Algebra I	<u>1 credit required:</u> Algebra I OR Algebra I A  Algebra II if Alg. I was in 8 <sup>th</sup> grade	<u>1 credit required:</u> Algebra II  Algebra I B  Geometry if Algebra II was in 9 <sup>th</sup> grade.	<u>1 credit required:</u> Geometry  Algebra II  Pre-Calculus/Weighted  <u>1/2 credit not required</u> Consumer Math A Consumer Math B And/or Statistics	<u>*1 credit required only if needed for 3<sup>rd</sup> math credit</u> Geometry OR Pre- Calculus/Weighted  Calculus/Weighted  <u>*1/2 credit not required</u> Consumer Math A Consumer Math B OR Statistics Trigonometry/Weighted
Phys. Ed/Health 2 credits required 1/2 Heath required	<u>1/2 credit required</u> PE. 9/10	<u>1/2 credit required</u> PE.9/10 Heath 10	<u>1/2 credit required</u> PE. 11/12	<u>1/2 credit required</u> PE. 11/12
Technology/Career Required for 9 <sup>th</sup> grade	<u>1 credit required:</u> Integrated Tech. and <u>1/2 credit required</u> 9 <sup>th</sup> grade Semester			
Foreign Language Two years. Recommended for college	<u>1 credit</u> Spanish I  Spanish I in 8 <sup>th</sup> can take Spanish II in 9 <sup>th</sup>	Spanish I OR Spanish II OR Spanish III	Spanish I OR Spanish II OR Spanish III	Spanish II OR Spanish III
Electives – see course descriptions for electives offered at each grade level	Elective courses required to complete full schedule	Elective courses required to complete full schedule	Elective courses required to complete full schedule	Elective courses required to complete full schedule
Total required credits to be scheduled per year	7 Earned Credits	13-14 Earned Credits	18-21 Earned Credits	25 Credits to graduate

# Offered at Aliquippa School District

## Vocational Technical School

Students **MUST** complete an application by the end of April of the year prior to enrollment in the BCCTC.

Automotive Technology

Business Information Systems

Carpentry

Collision Repair Technology

Commercial Art

Cosmetology

Culinary Arts

Drafting and Design

Electrical Occupations

Graphic Arts/Printing

Greenhouse/Landscaping

Health Occupations

HVAC-R

Logistics & Materials Management

Machine Tool Technology

Masonry/Bricklaying

Plumbing/Heating

Veterinarian Assistant

Welding

## Dual Enrollment programs.

College level

CCBC Aviation grades 11-12.

Health Academies grades 11-12.

STEM 11-12

Courses are attended during regular school classes each morning.

## CCBC Health Academy

Students gain hands-on experience in our classroom's labs and clinical environments. Students have the opportunity to earn up to 28 college credits while still taking your high school classes. This program is for students interested in any health care field.

## CCBC Aviation Academy

Students will earn college credits and have the opportunity to explore Professional Pilot, Air Traffic Control, and Unmanned Aerial Vehicles career paths.

## CCBC STEM

Through hands-on classroom and lab experiences, students may earn up to 28 college credits to prepare for a career in engineering or process technology.

# English

## +ENGLISH LITERATURE & COMPOSITION 9

(0101)

(9<sup>TH</sup>) 1CREDIT/REQUIRED, FULL YEAR

Prerequisite: None.

Through World Literature, students will **more fully develop reading skills** needed to understand both fiction and nonfiction. These skills include the following: *identifying and applying vocabulary, making inferences, drawing conclusions, citing text evidence to support generalizations, summarizing key details, and analyzing text purpose*. Students will also develop skills for interpreting fiction and nonfiction text by identifying and comparing the following: *major literary components* (character, setting, plot, theme, tone/style/mood, and symbolism), *literary devices* identifying and analyzing techniques such as personification alliteration and figurative language), and *concepts and organization of nonfiction text* (use of fact and opinion, bias and propaganda, organization of text content).

Through analyses of works by various authors as well as critiques of original student writing, students will **progress toward proficiency and advanced proficiency in writing**. Students will identify and create *narrative, informational, and persuasive pieces*. Attention will be given to adequate development of *focus, content, organization, style and conventions*

## \*HONORS ENGLISH LITERATURE & COMPOSITION 9

(0102)

(9<sup>TH</sup>) 1CREDIT (WEIGHTED\*) FULL YEAR

Prerequisite: **Teacher and counselor recommendation, A or B final grade, proficient on the PSSA.**

**Faster-paced curriculum, requiring greater independent reading/study skills.**

**Strong emphasis on deeper reading and writing applications.**

Through various novels and World Literature, students will **develop and extend reading skills** needed to understand both fiction and nonfiction. These skills include the following: *identifying and applying vocabulary, making inferences, drawing conclusions, citing text evidence to support generalizations, summarizing key details, and analyzing text purpose*. Students will also develop skills for interpreting fiction and nonfiction text by identifying and comparing the following: *major literary components* (character, setting, plot, theme, tone/style/mood, and symbolism), *literary devices* (identifying and analyzing techniques such as personification, alliteration, and figurative language), and *concepts and organization of nonfiction text* (use of fact and opinion, bias and propaganda, organization of text content).

Through analyses of works by various authors as well as critiques of original student writing, students will progress toward **advanced proficiency in writing**. Students will identify and create narrative, informational, and persuasive pieces. Attention will be given to adequate development of focus, content, organization, style and conventions.

## +ENGLISH LITERATURE & COMPOSITION 10

(0111)

(10<sup>TH</sup>) 1CREDIT/REQUIRED, FULL YEAR

Prerequisite: None.

Through various novels and World Literature, students will **develop and extend reading skills** needed to understand both fiction and nonfiction. These skills include the following: *identifying and applying vocabulary, making inferences, drawing conclusions, citing text evidence to support generalizations, summarizing key details, and analyzing text purpose*. Students will also develop skills for interpreting fiction and nonfiction text by identifying and comparing the following: *major literary components* (character, setting plot, theme, tone/style/mood, and symbolism), *literary devices* identifying and analyzing techniques such as personification, alliteration, and figurative language), and *concepts and organization of nonfiction text* (use of fact and opinion, bias and propaganda, organization of text content).

Through analyses of works by various authors as well as critiques of original student writing, students will progress toward proficiency in writing. There will be a particular emphasis on mastering the fundamentals of writing and of interpreting writing, moving students toward **proficient levels of writing**. Students will identify and create *narrative, informational, and persuasive pieces*. Attention will be given to adequate development of *focus, content, organization, style and conventions*.

**+\*HONORS ENGLISH LITERATURE & COMPOSITION 10** (0112)

**(10<sup>TH</sup>) 1CREDIT (WEIGHTED\*) FULL YEAR**

**Prerequisite: Teacher and counselor recommendation, A or B final grade in 10<sup>th</sup> grade, proficient on PSSA.  
Faster-paced curriculum, requiring greater independent reading/study skills.  
Strong emphasis on deeper reading and writing applications.**

Through World Literature, students will **enhance and extend established reading skills** needed to understand both fiction and nonfiction. These skills include the following: *identifying and applying vocabulary, making inferences, drawing conclusions, citing text evidence to support generalizations, summarizing key details, and analyzing text purpose*. Students will also develop skills for interpreting fiction and nonfiction text by identifying and comparing the following: *major literary components* (character, setting, plot, theme, tone/style/mood, and symbolism), *literary devices* (identifying and analyzing techniques such as personification, alliteration, and figurative language), and *concepts and organization of nonfiction text* (use of fact and opinion, bias and propaganda, organization of text content).

Through analyses of works by various authors as well as critiques of original student writing, students will progress toward **advanced proficiency in writing**. Students will identify and create *narrative, informational, and persuasive pieces*. Attention will be given to adequate development of *focus, content, organization, style and conventions*

**+American Literature** (0121)

**(11<sup>TH</sup>) 1CREDIT/REQUIRED, FULL YEAR**

**Prerequisite: None.**

Through American Literature, students will explore our heritage, ranging from revolutionary times to the present. They will **reinforce reading skills** needed to understand both fiction and nonfiction. These skills include the following: *identifying and applying vocabulary, making inferences, drawing conclusions, citing text evidence to support generalizations, summarizing key details, and analyzing text purpose*. Students will also develop skills for interpreting fiction and nonfiction text by identifying and comparing the following; *major literary components* (character, setting, plot, theme, tone/style/mood, and symbolism), *literary devices* (identifying and analyzing techniques such as personification, alliteration, and figurative language), and *concepts and organization of nonfiction text* (use of fact and opinion, bias and propaganda, organization of text content).

Through analyses of works by various authors as well as critiques of original student writing, students will progress toward **proficiency in writing**. Students will identify and create narrative, informational, and persuasive pieces. Attention will be given to adequate development of *focus, content, organization, style and conventions*. Additionally, classes will write a research paper using the Modern Language Association (MLA).

**This curriculum has a combination of guided and independent reading skills.**

**+\*Honors American Literature** (0122)

**(11<sup>TH</sup>) 1CREDIT (WEIGHTED\*), FULL YEAR**

**Prerequisite: Based on teacher and counselor recommendation also test scores.**

**Faster-paced curriculum, requiring greater independent reading/study skills.  
Strong emphasis on deeper reading and writing applications.**

Through American Literature, students will explore our heritage, ranging from revolutionary times to the present. They will **enhance and extend established reading skills** needed to understand both fiction and nonfiction. These skills include the following: *identifying and applying vocabulary, making inferences, drawing conclusions, citing text evidence to support generalizations, summarizing key details, and analyzing text purpose*. Students will also develop skills for interpreting fiction and nonfiction text by identifying and comparing the following; *major literary components* (character, setting, plot, theme, tone/style/mood, and symbolism), *literary devices* (identifying and analyzing techniques such as personification, alliteration, and figurative language), and *concepts and organization of nonfiction text* (use of fact and opinion, bias and propaganda, organization of text content).

Through analyses of works by various authors as well as critiques of original student writing, students will progress toward **advanced proficiency in writing**. Students will identify and create narrative, informational, and persuasive pieces. Attention will be given to adequate development of *focus, content, organization, style and conventions*.

**+British Literature**

(0140)

**(12<sup>TH</sup>) 1CREDIT/REQUIRED, FULL YEAR**

Prerequisite: None.

Through British Literature, students will **enhance independent reading skills** needed to understand both fiction and nonfiction. These skills include the following; *identifying and applying vocabulary, making inferences, drawing conclusions, citing text evidence to support generalizations, summarizing key details, and analyzing text purpose*. Students will also develop skills for interpreting fiction and nonfiction text by identifying and comparing the following: *major literary components* (character, setting, plot, theme, tone/style/mood, and symbolism), *literary devices* (identifying and analyzing techniques such as personification, alliteration, and figurative language), and *concepts and organization of nonfiction text* (use of fact and opinion, bias and propaganda, organization of text content). Attention will be given to characteristics and functions of the English language in terms of its historical development.

Through analysis of works by various authors as well as critiques of original student writing, students will progress toward **advanced proficiency in writing**. Students will identify and create narrative, informational, and persuasive pieces. Attention will be given to adequate development of *focus, content, organization, style and conventions*.

**\*Honors British Literature**

(0141)

**(12<sup>TH</sup>) 1CREDIT (WEIGHTED\*), FULL YEAR**

Prerequisite: **Based on teacher and counselor recommendation also test scores.**

**Faster-paced curriculum, requiring greater independent reading/study skills.  
Strong emphasis on deeper reading and writing applications.**

Through British Literature, students will **enhance independent reading skills** needed to understand both fiction and nonfiction. These skills include the following; *identifying and applying vocabulary, making inferences, drawing conclusions, citing text evidence to support generalizations, summarizing key details, and analyzing text purpose*. Students will also develop skills for interpreting fiction and nonfiction text by identifying and comparing the following: *major literary components* (character, setting, plot, theme, tone/style/mood, and symbolism), *literary devices* (identifying and analyzing techniques such as personification, alliteration, and figurative language), and *concepts and organization of nonfiction text* (use of fact and opinion, bias and propaganda, organization of text content). Attention will be given to characteristics and functions of the English language in terms of its historical development.

Through analysis of works by various authors as well as critiques of original student writing, students will progress toward **advanced proficiency in writing**. Students will identify and create narrative, informational, and persuasive pieces. Attention will be given to adequate development of *focus, content, organization, style and conventions*.

# Social Studies

## +World History

(0200)

(9<sup>TH</sup>) 1CREDIT/REQUIRED, FULL YEAR

Prerequisite: None.

The purpose of the Modern World History course is to develop greater understanding of the evolution of global processes and contacts, in interaction with different types of human societies. This understanding is advanced through a combination of factual knowledge and analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences, as well as comparisons among major societies. The course emphasizes relevant factual knowledge deployed in conjunction with leading interpretive issues and types of historical evidence.

## +U.S. History

(0210)

(10<sup>TH</sup>) 1CREDIT/REQUIRED, FULL YEAR

Prerequisite: None.

This course is a study of the history of the United States dating from 1600 to 1915. This course traces the development of the United States from the earliest European settlers to the formation of a republic, noting the events, people and ideas involved in the struggle to achieve that end. Particular emphasis is given to colonial America, the American Revolution, the Constitutional process of 1789, the slavery question and the Civil War/Reconstruction Era.

## +Twentieth Century America

(0215)

(11<sup>TH</sup>) 1CREDIT/REQUIRED, FULL YEAR

Prerequisite: None.

This course is designed to inform students about who they are as citizens of the United States and how past events have shaped the world we live in today. We will concentrate on the following historical periods: Constitutional period, major events of the 19<sup>th</sup> Century, World War I, the Depression, and World War II, the beginning of the Cold War, the 1960's and the last 30 years. We will achieve our educational goals through a number of activities, discussions, quizzes, test and lectures.

## +Government and Economics

(0220)

(12<sup>TH</sup>) 1CREDIT/REQUIRED, FULL YEAR

Prerequisite: None.

***American National Government:*** This course is the culmination of all Social Studies courses. It is within the content of this course that the student applies the factual knowledge gained in previous Social Studies courses. The ultimate goal of the course is to develop skills needed to become a productive American citizen. The student begins to understand the process of American government and begins to develop analytical skills, enabling the student to critique America's social, economic and political issues. To accomplish this goal, units of the course review the basic fundamentals of government and ultimately the citizen's role and responsibility within the system. Attention is given to contemporary issues. Through class discussion, the student's interest in current affairs is encouraged. Thus, the students will analyze the American system of government as proposed by the constitution and the day-to-day working of America in a global society.

***Principles of Economics:*** An introductory economics course focusing on macroeconomics and microeconomics, including government spending, money, inflation, unemployment and taxes. Also, price, cost and production theory are covered in relation to competitive, monopolistic and oligopolistic industry structure.

# Science

## +Biology I/Lab

(0302)

(9<sup>TH</sup>) 1CREDIT/REQUIRED, FULL YEAR

Prerequisite: None.

This is a branch of science which deals with the study of living organisms and genetics; it includes both plant and animal kingdoms. The concepts included are the cell, respiration, photosynthesis, bacteria, higher plants and animals, human systems, and problems of interrelationships.

## \*Honors Biology I/Lab

(0304)

(9<sup>TH</sup>) 1CREDIT (WEIGHTED\*), FULL YEAR

Prerequisite: **Teacher recommendation.**

Honors Biology is designed for the advanced 9<sup>th</sup> grade student who has performed an A or B average level in science in 7<sup>th</sup> and 8<sup>th</sup> grade. This course will concentrate on the nature of Biology, Cell Structure and Function, Cell Division, DNA and Evolution. This course will prepare the students with the knowledge needed for success on the PA Keystone Biology Exam and enrich them with the science content required for a future in science related fields.

## +Chemistry/Lab

(0320)

(10<sup>TH</sup>, 11<sup>TH</sup>, or 12<sup>th</sup>) 1CREDIT/REQUIRED, FULL YEAR. Lab meets two (2) days per week.

Prerequisite: **Prerequisite: Passing grade in Biology and Algebra. Students will need their own scientific calculators.**

This is a branch of science that deals with the nature and behavior of the matter which makes up the world. Topics include states of matter, atomic structure, chemical nomenclature (writing formulas and naming compounds), chemical reactions and equations, periodic table properties, and chemical bonds.

Chemistry lab is a general study of science that deals with the characteristics of elements and their compounds. The scientific principles of their combination and behavior under various conditions are investigated. Students will have a study period on days that they do not have lab.

## +Physical Science

(0311)

(10<sup>TH</sup>, 11<sup>TH</sup>, or 12<sup>th</sup>) 1CREDIT, FULL YEAR.

Prerequisite: None

This class is designed to introduce students to topics related to physical science, which is a branch of science that deals with motion, radiation and energy and encourages a deeper understanding of the processes and nature of matter occurring in the physical world.

## +\*Biology II/Lab

(0303)

(11<sup>th</sup> or 12<sup>th</sup>) 1CREDIT (WEIGHTED\*), FULL YEAR

Prerequisite: **passing grade of 70% in Biology I and Chemistry.**

This is a second year course offered as an elective for those science-oriented students who may be anticipating a career in one of the many related fields stemming from the biological sciences. Biology II studies the biology of the human body. The course focuses on the eleven body systems and the anatomy and physiology associated with each. The topics covered are biochemistry, the cell, systems of the human body, genetics, and evolution.

**+Environmental/Earth Science**  
**(11<sup>th</sup> or 12<sup>th</sup> TH) 1CREDIT (FULL YEAR)**

(0310)

Prerequisite: Biology

Environmental Science is designed to introduce students to major ecological concepts and the environmental problems which affect the world in which we live. Students will learn about technological developments which have created environmental problems as well as the technology which is helping to solve them. This course provides a way in which students can become more aware of the interactions of people and their environment.

Earth Science is designed to provide the student with a well-rounded survey of the disciplines of Earth Science. Topics include meteorology and oceanography with an emphasis on astronomy and geology.

**+\*Physics/Lab**  
**(11<sup>th</sup> or 12<sup>th</sup> TH) 1CREDIT (WEIGHTED\*) (FULL YEAR)**

(0330)

Grade 11 & 12 – 1 credit/two class periods. Lab meets two (2) days per week.

**Prerequisite: Passing grade of 70% in Chemistry and Geometry. Students will need their own scientific Calculator.**

This is a branch of science that deals with motion, radiation and energy and encourages a deeper understanding of the processes occurring in the physical world. Physics covers topics such as heat, sound, and electricity, with an emphasis on mechanics. These topics will be explored using the language of math in order to explain the material. Physics lab activities will complement each component of the core curriculum. Students will have a study period on days that they do not have lab.

**Keystone Biology** ELECITIVE, NOT A SCIENCE CREDIT.  
**(10<sup>th</sup>, or 11<sup>th</sup>) 1/2 CREDIT. Semester course.**

(0301)

Students who do not achieve a proficient rating on the Biology Keystone will have the opportunity for remediation prior to retaking the exam. This course is a review of the material that is presented throughout the Biology I course. This course will review test specific content and provide students with the style of questions that they will see on the test, as well as test taking strategies to help students. This course will also review open ended questions to show students the manner in which the state wants questions answered.

# Math

## +Algebra I

(0403)

(9<sup>TH</sup>) 1CREDIT/REQUIRED, FULL YEAR

**Prerequisite: Proficient or advanced on the PSSA and teacher recommendation.**

Students will become familiar with algebraic patterns and operations, solve linear equations and inequalities, and are introduced to polynomial, quadratic, rational and radical functions. Students will apply these concepts to real-world problems and use technology to support and display their findings. The course will focus on the application of these concepts through hands-on applications and exploration using manipulative, including the TI-83 calculator.

## Algebra I A

(0407)

(9<sup>TH</sup>) 1CREDIT/REQUIRED, FULL YEAR

**Prerequisite: May be recommended by teacher and/or guidance counselor.**

Part 1 of a two year algebra course, all topics of Algebra I will be covered at a slower pace over two years. Once enrolled, a student must take both years to successfully complete Algebra I requirements. The pace of the class will be adapted to meet students' needs. Note: Completion of Algebra I A and Algebra I B will fill two of the three math credits needed for graduation.

## +Algebra II

(0404)

(9<sup>th</sup>, 10<sup>TH</sup> and or 11<sup>th</sup>) 1CREDIT/REQUIRED, FULL YEAR

**Prerequisite: None**

**Prerequisite: Successful completion of Algebra I or Algebra IB.**

Students will review linear representations, equations, inequalities and systems. Solving equations and modeling real-world data using Quadratic, Exponential, Logarithmic, Polynomial, Rational and Radical Functions will be stressed. Graphic calculators will be used extensively, both in and out of classroom to graph equations, analyze and model data, and extend understanding of each type of function.

## Algebra I B

(0408)

(10<sup>TH</sup>) 1CREDIT/REQUIRED, FULL YEAR

**Prerequisite: May be recommended by teacher and/or guidance counselor.**

Part 2 of a two year algebra course, all topics of Algebra I will be covered at a slower pace over two years. Once enrolled, a student must take both years to successfully complete Algebra I requirements. The pace of the class will be adapted to meet students' needs. Note: Completion of Algebra I A and Algebra I B will fill two of the three math credits needed for graduation.

## +Geometry

(0410)

(10<sup>th</sup> or 11<sup>th</sup>) 1CREDIT/FULL YEAR

**Prerequisite: Successful completion of Algebra I, Algebra IB, and Algebra II. Seniors only may take geometry after completing Algebra IB.**

This course provides students with the opportunity to study Euclidean Geometry. Through discovery-based activities and dynamic computer software (i.e. The Geometer's Sketchpad), students explore geometric concepts and terminology as well as an introduction to proof. Students become more organized in their own thought processes by practicing two-column, paragraph and flowchart proofs.

**+\*Pre-Calculus** (0450)

(10<sup>th</sup> or 11<sup>th</sup>) 1CREDIT (WEIGHTED\*) /FULL YEAR

**Prerequisite: Successful of Algebra I, Algebra II and Geometry.**

This course is intended to provide the mathematical background needed for Calculus. This course integrates graphing technology using “TI-83 Plus” calculators while stressing the underlying mathematics. The concepts that play a central role in Calculus are explored from algebraic, graphical, and numerical perspectives.

**\* Calculus** (0460)

(12<sup>TH</sup>) 1CREDIT (WEIGHTED\*) /FULL YEAR

**Prerequisite: Successful completion of Pre-Calculus.**

This course is intended for those students who have successfully completed Pre-Calculus. The analytic Geometry covered in this course includes: Topics in coordinate geometry, the straight line, functions (quadratic, exponential, logarithmic, and trigonometric) and graphs. Special emphasis is placed on improving algebraic proficiency. The calculus of polynomial functions is handled in an intuitive approach with concentration on limits and continuity, the derivative, the integral and their applications. Student will use the graphics calculator, extensively both in and out of the classroom to organize and display data as well as aid in the solution of problems.

**Trigonometry** (0461)

(12<sup>th</sup>) 1/2 CREDIT/ Semester course.

**Prerequisite: Successful of Algebra II**

Trigonometry will be used to solve and graphic equations, model real-world data and solve related problems. The graphic calculator will be used extensively both in and out of the classroom as an aid to graphing, modeling, and solving equations representing a variety of functions.

**SAT Math** (0462)

(12<sup>th</sup>) 1/2 CREDIT/ Semester course. ELECITIVE, NOT A SCIENCE CREDIT.

**Prerequisite: .5 elective credit, (may be used as a math credit for seniors only with permission from the principal.)**

**Completion of Algebra I or Algebra I B and Algebra II**

This course helps to prepare students for the math portion of the SAT. The course provides test taking strategies as well as review for topics in the areas of Data Analysis and Probability, Heart of Algebra, and Passport to Advanced Math. This course provides students with an abundant amount of practice SAT problems and solutions

**Consumer Math A** (0470)

(11<sup>th</sup> or 12<sup>th</sup>) 1/2 CREDIT/ Semester course

Consumer Math A will help students to understand mathematics as it relates to their everyday lives. This course covers basic math concepts and skills before exploring the more specific topics. Clear explanations are followed by ample practice. Each section of the skills, topic, and concept taught has a pretest, a section review. And a posttest. Consumer Math A explores a wide range of topics, such as:

- Part-time and summer jobs
- Full time work
- Life Lessons
- Spending Lessons
- Insurance Lessons

**Consumer Math B**

(0471)

**(11<sup>th</sup> or 12<sup>th</sup>) 1/2 CREDIT/ Semester course**

Consumer Math B will help students to understand mathematics as it relates to their everyday lives. This course covers basic math concepts and skills before exploring the more specific topics. Clear explanations are followed by ample practice, each section of the skills, topic, and concept taught has pretest, a section review, and posttest. Consumer Math B explores a wide range of topics, such as:

- Checking and Savings Accounts
- Credit
- Budgeting and Saving
- Debt and Credit Card
- Investing
- Housing

**Statistics**

(0480)

**(11<sup>th</sup> or 12<sup>th</sup>) 1/2 CREDIT/ Semester course****Prerequisite: Successful of Algebra II**

This course is an introduction to a field of great importance in business, technology, science, and research. Three main topics are covered: Descriptive Statistics, Probability, and Inferential Statistics. Computers and graphing calculators will be used to apply topics to real scenarios from the book and current events.

**Keystone Algebra ELECITIVE, NOT A MATH CREDIT.**

(0406)

**(10<sup>th</sup>, or 11<sup>th</sup>) 1/2 CREDIT. Semester course.**

Students who do not achieve a proficient rating on the Algebra Keystone will have the opportunity for remediation prior to retaking the exam. This course is a review of the material that is presented throughout the Algebra I course. This course will review test specific content and provide students with the style of questions that they will see on the test, as well as test taking strategies to help students. This course will also review open ended questions to show students the manner in which the state wants questions answered.

# Foreign Language

## **+Spanish I**

(0520)

(8<sup>th</sup>, 9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>) 1CREDIT/ FULL YEAR

**Prerequisite: None**

This is an introductory course in Spanish, in which students will experience listening, speaking, reading and writing in simple Spanish. Students will be exposed to the fascinating culture of the Hispanic world.

## **+Spanish II**

(0521)

(9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>) 1CREDIT/ FULL YEAR

**Prerequisite: Must have successfully competed Spanish I.**

A continuation of grammar and vocabulary building leads to students' guided expression in speaking, writing, listening and reading. Cultural insights relating to the vocabulary are highlighted, as well as ways language and cultures interact.

## **+\*Spanish III**

(0522)

(10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>) 1CREDIT (WEIGHTED\*)/ FULL YEAR

**Prerequisite: Must have successfully competed Spanish II with a C or better.**

A continuation of grammar and vocabulary building leads to students' guided expression in speaking, writing, listening and reading. Cultural insights relating to the vocabulary are highlighted, as well as ways language and cultures interact.

*\*Course is weighted + NCAA Approved*

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# Business/Career

## **9<sup>th</sup> Grade Seminar**

(0600)

(9<sup>th</sup>) 1/2 CREDIT/ Semester course

**Prerequisite: Required for all ninth grade students.**

The 9<sup>th</sup> Grade Semester will provide opportunities for the student to explore career choices, provide resources on writing a resume, preparing for an interview, and will review basic professional behaviors. This Semester will also be the platform for the initial discussions concerning the senior project. The 9<sup>th</sup> Grade Semester culminates with a career research project which students present to their class via Power Point presentation.

**This class is the foundation for the Senior Project.**

## **Accounting**

(0610)

(10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>) 1CREDIT/ FULL YEAR

**Prerequisite: None**

Accounting I introduces concepts and principles based on a double entry system of maintaining the financial records of a sole proprietorship. Students learn to apply debit/credit theory in preparing journals and ledgers for service and merchandise firms. It includes analyzing business transactions, journalizing, posting and preparing worksheets and financial statements. Students enrolled in Accounting I qualify to be a member of the Aliquippa DECA Club and have the opportunity to compete and travel to district, state, and national DECA conferences. Students will be responsible for \$15.00 DECA dues and a \$38.00 competition fee. (Note: These costs may be offset by fundraising if possible).

## **Introduction to Business**

(0650)

(9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>) 1 CREDIT/FULL YEAR

**Prerequisite: NONE**

This class will introduce you to the world of business and help prepare you for the economic roles of consumer, worker, and citizen. This class combines an overview of business activities within our economic system and a survey of major occupational areas within the field of business. The content will provide an essential background not only for those who plan to further their studies in business and economics, but for those who need to learn basic skills for daily living. This course will cover four major aspects of business: economic systems, personal management, consumer economics, and occupational or career choices. After successfully completing this course, it is suggested students take Marketing and Accounting I. Students enrolled in Introduction to Business qualify to be members of the Aliquippa DECA Club, and will have the opportunity to compete and travel to district and possibly state and/or national DECA conferences. Students will be responsible for \$15.00 DECA dues and a \$38.00 competition fee. (Note: These costs may be offset by fundraising if possible).

## **Marketing**

(0660)

10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>) 1CREDIT/ FULL YEAR

**Prerequisite: None**

This course focuses on the study of marketing concepts and their practical application. Subject matter includes economics, marketing foundations/functions and human resource leadership development. Marketing is the process of determining consumer wants and needs, then directing products and services to meet these needs. Included in the MDE is training in product analysis and development, sales presentations, profitable operation of a business, financial management, advertising layout, international marketing, business management and entrepreneurship stock and inventory control, selecting and pricing merchandise, supervising employees, credit regulations and marketing research. Skills in communication, mathematics, economics and psychology are reinforced in this course. Students enrolled in Marketing/Distributive qualify to be a member of the Aliquippa DECA Club and have the opportunity to compete and travel to district, state, and national DECA conferences. Students will be responsible for \$15.00 DECA dues and a \$38.00 competition fee. (Note: These costs may be offset by fundraising if possible).

*\*Course is weighted*

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# Technology

## **Multimedia**

(0602)

(9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>) 1/2 CREDIT/ Semester course

**Prerequisite: None**

CS First is a course that increases student access and exposure to computer science (CS) education. The CS First courses involve block-based coding using Scratch and are themed to attract students with varied interests.

The goals of the class are: Increase confidence while using the computer; instill courage to try new things; grow perseverance while tackling difficult problems; provide a sense of belonging in technology for underrepresented students; and demonstrate the impact that computer science has in careers and the community.

## **Computer Animation/Game Design**

(0603)

(9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>) 1/2 CREDIT/ Semester course

**Prerequisite: None**

This course is designed for students with an interest in working with computers, programming languages, and graphic design. This is a hands-on class allows for experimentation, originality, and learning from mistakes. Due to the nature of computer design, students will be expected to work on the computer everyday throughout the entire class period. Creativity is a must, as well as good work ethics and self-motivation. The design process will require problem solving and decision making to make a fully functional animation or game.

## **Integrated Technology**

(0605)

(9<sup>th</sup>) 1 CREDIT/FULL YEAR

**Prerequisite: Required for all ninth grade students.**

This course is designed to encourage and enable students to feel comfortable utilizing a computer and programs which can benefit them academically, as well as in future careers. Students will be working with many different programs such as Word, Publisher, Excel, and PowerPoint, as well as working with various web based programs that add to the current changes in technology. This allows for creative design, decision making skills, and problem solving. In addition, this course provides an introduction into computer programming through a number of different programming languages. Throughout the year students will build typing skills through proper typing technique

## **CAD**

(0851)

(10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>) 1/2 CREDIT/ Semester course

**Prerequisite: None**

This course is designed for those students who are planning to attend college majoring in any engineering field. Students will be introduced to basic drafting, 3D CAD/Solid Works. There will be 95% computer involvement using an auto CAD Program (Solidworks). Students will design, develop and make prototypes of different drawings. Students will also be able to utilize the 3D printer to print a model of their drawing.

## **Material Process Manufacturing**

(0861)

(10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>) 1/2 CREDIT/ Semester course

**Prerequisite: Must have taken Technology**

This course is designed to introduce students to various common materials and the machine processes used to transform these materials into products. Students participate in hands-on activities that require them to cut, form, join, and finish materials while safely using the tools and machines located in the production lab. Students individually construct various given projects. Safety is strictly stressed and projects become more advanced, as students work with materials such as wood, metal, and plastics.

**Graphic Arts Technology**

(0870)

**(11<sup>th</sup>, 12<sup>th</sup>) 1/2 CREDIT/ Semester course**

**Prerequisite: None**

The major portion of this course involves the fundamental principles of printing technology. Emphasis is placed on design and layout, computer composition, screen-printing, and photo alterations. Technical drawing techniques will be practiced and enhanced with prototypes and models.

*\*Course is weighted*

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# Fine Arts

## Drawing I

(0700)

(9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>) 1/2 CREDIT/ Semester course

**Prerequisite: None.**

This course will introduce the principles and theories of drawing, painting, and design. Students will be graded on drawing ability, tests that measure knowledge, art history, principles of art and design, and a sketch book.

## Drawing II

(0701)

(9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>) 1/2 CREDIT/ Semester course

**Prerequisite: Successful completion of Drawing I with a C or better.**

This course will introduce various types of advanced painting, graphic arts (print design) and drawing to the qualified student.

## Studio Arts

(0702)

(9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>) 1 CREDIT/FULL YEAR

**Prerequisite: Limited to 14 students per class**

Studio Arts is a course that will cover drawing, painting, ceramics, and crafts (one per quarter). The course will cover the basic elements of drawing. The painting portion will introduce the use of watercolor and acrylic paints. Ceramics will show different techniques of hand building and using the pottery wheel. Crafts will cover different fiber arts beads, paper, and glass work.

## Crafts

(0705)

(9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>) 1/2 CREDIT/ Semester course

**Prerequisite: None**

This class is for students who have an interest in working with their hands to create various forms of art and craft work. Current and famous artists will be studied, along with different techniques used to create projects. Weaving, paper Mache, needlepoint, sculpture, and basketry will be taught plus some two-dimensional work.

## Ceramics

(0707)

(9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>) 1/2 CREDIT/ Semester course

**Prerequisite: Limited to 14 students per class.**

This course will be an introduction to ceramics to develop skills in wheel-throwing and hand-building with clay. Individual instruction that will emphasize the essential skills needed to produce functional ceramic objects – form, surface design, glazing, and firing. **Appropriate clothing and willingness to work with wet clay is a required.**

## Video Production

(0723)

(11<sup>th</sup>, 12<sup>th</sup>) 1 CREDIT/ FULL YEAR

**Prerequisite: Class size limited.**

This course is designed to give students a creative outlet through digital media and videography. Students will learn to use production equipment, editing software, and other digital media tools. They will be expected to take part in student designed projects as actors, directors, camera people, grips, and script writers. Students that do not want to be filmed should not take this class as it is part of the required curriculum. Fieldwork involving district activities will provide students with real working experiences in audio-video creation. Opportunities for creativity, problem solving, individual and group interaction, and decision making are incorporated.

**Band**

(0750)

**(9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>) 1 CREDIT/ FULL YEAR****Prerequisite: Students must have some experience playing a musical instrument.**

The band will consist of the marching band and concert band. You will be required to take part in both parts. Marching band will occur during football season. There will be a band camp in early August where attendance is MANDATORY. All performances and rehearsals are also MANDATORY. The marching band performs at all of the football games, several parades, assemblies, community concerts, benefits, and rehearses two days a week after school. The rest of the year will be devoted to concert band. There will be two major concerts during the school year as well as many other performances. Skills will be developed on your instrument and the band will be focused on learning warm ups, scales, appropriate music selections, and concert etiquette. Students that take part in this ensemble will have the opportunity to participate in county, district, regional and all-state band festivals.

**Chorus**

(0760)

**(9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>) 1 CREDIT/ FULL YEAR****Prerequisite: None**

This course is designed to teach students the fundamentals of writing a hip-hop song. Through active listening and lyrical analysis, students will learn how to express ideas and emotions through musical language. Using technology, students will find and create beats to perform and record their own music. Hip-hop is an expression of culture and helps individuals find meaning in a complex society. Students will learn to listen to music for substance and content. Students will learn how to use recording equipment and recording programs so that they are able to use the equipment on their own. As a final project, the class as a whole will work in collaboration with the Video Production class to create a music video "If hip-hop has the power to corrupt young minds, it also has the power to uplift them." – KRS One.

**Sew Fun**

(0731)

**(9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>) 1/2 CREDIT/ Semester course****Prerequisite: None**

This course is designed for students with an interest in learning to use the sewing machine and other equipment, as well as skills and knowledge for cutting, sewing and working with fabrics. Techniques of pattern selection, minor fitting and design, adjustments, fabric identification and selection will be presented. Concepts are taught through lecture, demonstrations, and student practice.

**Food & Nutrition**

(0732)

**(9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>) 1/2 CREDIT/ Semester course****Prerequisite: None**

Students will explore the fundamentals of meal planning, preparation, shopping on a budget, making healthy choices, and kitchen safety.

**Global Foods**

(0733)

**(9<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 12<sup>th</sup>) 1/2 CREDIT/ Semester course****Prerequisite: Must have passed Foods & Nutrition.**

Students will explore the typical food customs and meal patterns of various cultures throughout the world. Students will be introduced to the social, religious, economic, and aesthetic significance of these cultures and examines how geographical, agricultural, and socioeconomic factors influence their nutritional status. Students will also explore the preparation and evaluation of the food product.

*\*Course is weighted*

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# Health/Physical Education

## **Health Education 10<sup>th</sup> Grade**

(0951)

(10<sup>th</sup>) 1/2 CREDIT/ required/Semester course

**Prerequisite: Required for all 10<sup>th</sup> grade.**

This course is designed to acquaint 10<sup>th</sup> grade students with health issues and concepts. Topics include: Sex Education (sexuality & morality), STD prevention, fitness, nutrition, disease prevention and identification, drug and alcohol information, first aid, and CPR. By the end of this course, students will acquire health knowledge, understanding, and attitudes to help them meet their health responsibilities.

## **Physical Education 9/10**

(0954)

(9<sup>th</sup>, 10<sup>th</sup>) 1/2 CREDIT/ required/Semester course

**Prerequisite: Required for 9<sup>th</sup> and 10<sup>th</sup> grade**

This is an instructional course that covers the skills, fundamentals, and strategies within individual and team sports (basketball, football, volleyball, hockey, soccer, kickball, softball, badminton, table tennis, etc.) Students will be exposed to fitness testing, calisthenics, physical fitness, weight resistance training, group fitness and more. The objective is to develop the students physically, mentally, and socially. By the end of this course, students will have a better understanding of personal fitness and the importance of maintaining a healthy lifestyle.

This course is also designed to provide an understanding of how to strengthen the body through weight training and resistance exercises. Students will learn how to design an individualized weight training and cardiovascular program. Students will focus on strength training principles (proper techniques of lifting), safety procedures (spotting), knowledge of equipment, and individualized programming.

## **Physical Education 11/12**

(0956)

(11<sup>th</sup>, 12<sup>th</sup>) 1/2 CREDIT/ required/Semester course

**Prerequisite: Required for 11<sup>th</sup> and 12<sup>th</sup> grade.**

This is an instructional course that masters the skills, fundamentals, and strategies within individual and team sports (basketball, football, volleyball, hockey, soccer, kickball, softball, badminton, table tennis, etc.) Students will be exposed to fitness testing, calisthenics, physical fitness, weight resistance training, group fitness, and more. The objective is to develop the students physically, mentally, and socially. By the end of this course, students will have a better understanding of personal fitness and importance of maintaining a healthy lifestyle.

This course is also designed to provide an understanding of how to strengthen the body through weight training and resistance exercises. Students will design an individualized weight training and cardiovascular program. Students will focus on strength training principles (proper techniques of lifting), safety procedures (spotting), knowledge of equipment, and individualized programming.

**Mandatory:** Students are required to wear a Physical Education Uniform in class. **Proper attire consists of an official “Aliquippa Phys. Ed.” t-shirt, shorts, and tennis shoes.** The Official “Aliquippa Phys. Ed.” Tee shirt (which is solid red with a black logo) costs \$5 and can be purchased from the physical education teacher at the beginning or end of any Phys. Ed. class. Shirts **cannot** be altered in anyway (example: cutting off the sleeves, etc.). The student must also wear solid black, loose-fitting shorts that are at least as long as his/her fingertips **or** solid black loose fitting nylon pants or sweatpants. Shoes must be in good condition, with tied laces and rubber tread. No sweat shirts, jackets, headbands, armbands, jewelry, or hats are allowed to be worn.

*\*Course is weighted*

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# Additional Opportunities

## Transition

(0909)

(11<sup>th</sup>, 12<sup>th</sup>) 1 CREDIT/ FULL YEAR

Grades 11 & 12

**Prerequisite: Transition Coordinator's recommendation**

Students may qualify for a work transition experience based on the transition coordinators recommendation, career aspirations, and number of credits already attained. Credits are awarded based on the number of hours needed to successfully complete the training experience.

## Beaver County Career and Technology Center (formerly Vo-tech)

(0900)

Grades 11, 12 – 3 credits.

Students interested in cosmetology or who have IEP's may begin in grade 10.

**Note: Students MUST turn in an application for the CTC in the Spring PRIOR to the year they wish to attend. Students who do not turn in an application may not be able to attend the CTC in the fall.**

The Beaver County Career & Technology Center is a full-time career and technology center located in Center Township (Pennsylvania) adjacent to the Community College of Beaver County.

The Beaver County CTC is dedicated to providing programs consisting of high quality, cutting-edge technical training integrated with a strong academic education and an emphasis on critical thinking, problem-solving, decision-making, and team-building skills. The curriculum is closely tied to the needs of business and industry. The available courses of study are listed on page 5 of this course catalog.

## ROTC

Grades 9, 10, 11, 12 – 1 credit

**Prerequisite: completion of an enrollment package and permission from the principal and Ambridge Area High School**

Students who are interested in the military as a career may be eligible to attend the ROTC program at Ambridge Area High School. Students will participate in a class whose purpose is to encourage habits of orderliness, precision, and self-confidence. Cadets are held to a high standard of personal responsibility, honor and respect. Cadets will be expected to wear a uniform one day per week and participate in after school activities.

A limited number of full day transfers to Ambridge through the ROTC program may be available with the approval of the Superintendent. Students must complete an enrollment packet and be accepted into the program **PRIOR TO** the start of the school year. Once accepted, students must maintain an overall GPA of 2.5 in order to remain in the program.

## CCBC Aviation Academy

Grades 10, 11, 12

**Prerequisite: 2.5 cumulative grade point average or higher; completion of an application**

The Aviation Academy provides an opportunity to earn college credits in high school while exploring the high-demand aviation careers of Air Traffic Control, Professional Pilot, and Unmanned Aerial Vehicles (drones).

Students will attend CCBC for ½ day and complete core courses at the high school. Scholarships are available for qualified students. Students should see their guidance counselor to enroll in this program.

## CCBC Health Academy

Grades 1<sup>0</sup>, 11, 12

**Prerequisite: 2.75 cumulative grade point average or higher; completion of an application**

Students gain hands-on experience in our classroom's labs and clinical environments. Students have the opportunity to earn up to 28 college credits while still taking your high school classes.

Students should see their guidance counselor to enroll in this program.

## CCBC STEM

Through hands-on classroom and lab experiences, students may earn up to 28 college credits to prepare for a career in engineering or process technology.

# ALIQUIPPA SCHOOL DISTRICT



100 HARDING AVE., ALIQUIPPA, PA 15001

PHONE: (724) 857-7515

FAX: (724) 857-7560

## Aliquippa School District Aliquippa Sr. / Jr. High School



### 2017-2018 Junior 7<sup>th</sup> & 8<sup>th</sup> Curriculum

Principal, grades 10, 11, and 12.....Mr. Alvin B. Gipson  
Principal, grades 7, 8, and 9 .....Mrs. Beth Smith  
Counselor grade 8 .....Mr. Kim Tonio  
Counselor grade 7 .....Mrs. Ellen Hermes

To The Parent/Guardian and Student,

The Course Description Booklet is designed to familiarize you with what will be taught in a course, the credit(s) earned, the length of a course (year or semester), and the required prerequisites for certain course selections.

The courses offered in seventh and eighth grades are subjects that will help develop a strong foundation for earning credits starting in ninth grade. Seventh and eighth grade courses are chosen based on teacher and counselor recommendations, grades and standardized test scores.

We are asking parents with students in the seventh and eighth grades to review the course catalog so you can see the sequence of each core and elective course and how your child can achieve the most out of his/her education.

Questions or concerns about scheduling can be addressed by contacting the counselors at the Jr. / Sr. High School between 7:50 a.m. and 2:50 p.m. daily.



Phone: 724-857-7515  
[www.aliquippa.k12.pa.us](http://www.aliquippa.k12.pa.us)

Here is a chart as a guide.

### Aliquippa JR High School Required Core Courses

Required Courses	7 <sup>th</sup> grade	8th grade
English	<u>Required:</u> English 7 OR Teacher recommendation English 7 Honors	<u>Required:</u> English 8 OR Teacher recommendation English 8 Honors
Reading	<u>Required</u> Reading 7	<u>Required</u> Reading 8 Or Teacher recommendation Reading 8 Honors
Social Studies	<u>Required:</u> Early World History	<u>Required:</u> Civics/PA History
Science	<u>Required:</u> General Science 7	<u>Required:</u> General Science 8
Math	<u>Required:</u> Math 7 Or Teacher recommendation Math 7 Honors Or Teacher recommendation Pre-Algebra 7	<u>Required:</u> Math 8 OR Teacher recommendation Algebra I
Phys. Ed/Health Required Heath required	<u>Required</u> PE 7 Health 7	
Electives for honor classes.	All teacher recommended: Pre-Algebra	All teacher recommended: Spanish I if in Honors English STEMS 8 if in Algebra I Or STEMS Honors 8
Electives	Multimedia 7 Art 7 Jr. High Band	Multimedia 8 Family Cons. Sci. 8 Intro to Industrial Tech. Jr. High Band

# Jr. High English

## English 7

(0110)

(7<sup>TH</sup>) REQUIRED, FULL YEAR

Prerequisite: None.

The 7<sup>th</sup> grade reading program is designed to teach reading/writing/listening/speaking strategies that develop healthy reading habits and skills necessary for the demands of the future: to think critically and creatively, to collaborate and communicate effectively. The units are organized by genre in order to help students make connections between reading and writing. Each unit identifies skills which are continuously applied during the reading of novels, poetry, or short stories. The path to reading success starts with focused instruction. Standardized testing instruction is interwoven throughout the units.

## \*Honors English 7

(0109)

(7<sup>TH</sup>) FULL YEAR

**Prerequisite: Based on teacher and counselor recommendation, test scores and grades.**

This honors class provides a program where students with accelerated talents in Language Arts can flourish. Students explore a variety of fiction and non-fiction materials. The focus will be on encouraging students to read for pleasure while developing critical reading skills. This program replicates all of the components of the regular language arts /reading class, while some of the time emphasizing higher level divergent thinking, individualized curriculum and a more rigorous selection of literature and writing.

## Reading 7

(0108)

(7<sup>TH</sup>) REQUIRED, FULL YEAR

Prerequisite: None.

This 7<sup>th</sup> grade reading program is logically organized and sequenced so that students build literary, reading, writing, vocabulary, speaking and listening skills. Ample opportunities for practice, remediation, re-teaching, and assessing are offered throughout the course. This 7<sup>th</sup> grade course is designed to provide students with tools and strategies that develop strong reading skills necessary for the demands of the future: to think critically and creatively, to collaborate and to communicate effectively. Students will reinforce reading skills needed to comprehend both fiction and nonfiction text. These skills include the following: learning to read independently; reading critically in all content areas; reading, analyzing, and interpreting literature; types of writing; quality of writing; speaking and listening skills, and applying research skills.

## \*Honors Reading 7

(0107)

(7<sup>TH</sup>) FULL YEAR

**Prerequisite: Based on teacher and counselor recommendation, test scores and grades.**

This 7<sup>th</sup> grade reading program is logically organized and sequenced so that students build literary, reading, writing, vocabulary, speaking and listening skills. Ample opportunities for practice, remediation, re-teaching, and assessing are offered throughout the course. This 7<sup>th</sup> grade course is designed to provide students with tools and strategies that develop strong reading skills necessary for the demands of the future: to think critically and creatively, to collaborate and to communicate effectively. Students will reinforce reading skills needed to comprehend both fiction and nonfiction text. These skills include the following: learning to read independently; reading critically in all content areas; reading, analyzing, and interpreting literature; types of writing; quality of writing; speaking and listening skills, and applying research skills.

**English 8**

(0115)

**(8<sup>th</sup>)REQUIRED, FULL YEAR**

Prerequisite: None.

This 8<sup>th</sup> grade reading program is logically organized and sequenced so that students build literary, reading, writing, vocabulary, speaking and listening skills. Ample opportunities for practice, remediation, re-teaching, and assessing are offered throughout the course. This 8<sup>th</sup> grade course is designed to provide students with tools and strategies that develop strong reading skills necessary for the demands of the future: to think critically and creatively, to collaborate and to communicate effectively. Students will reinforce reading skills needed to comprehend both fiction and nonfiction text. These skills include the following: learning to read independently; reading critically in all content areas; reading, analyzing, and interpreting literature; types of writing; quality of writing; speaking and listening skills, and applying research skills.

**\*Honors English 8****(8<sup>th</sup>) FULL YEAR**

(0116)

**Prerequisite: Based on teacher and counselor recommendation, test scores and grades.**

Honors students will work on developing techniques to increase their vocabularies and will engage in class activities designed to enhance their public speaking skills. By interpreting various texts, students will be challenged to develop analytical skills as well as an academic vocabulary for discussing the elements of story and textual interpretation. Furthermore, students will be challenged to analyze various texts on a deeper level and will learn to articulate their interpretations through the written and spoken word. Knowledge of grammar is incorporated into writing, as students explore a variety of writing styles, including descriptive essay, personal narrative, persuasive essay, and analytical essay.

**Reading 8**

(0113)

**(8<sup>TH</sup>) REQUIRED, FULL YEAR**

Prerequisite: None.

This 8<sup>th</sup> grade reading program is logically organized and sequenced so that students build literary, reading, writing, vocabulary, speaking and listening skills. Ample opportunities for practice, remediation, re-teaching, and assessing are offered throughout the course.

This 8<sup>th</sup> grade course is designed to provide students with tools and strategies that develop strong reading skills necessary for the demands of the future: to think critically and creatively, to collaborate and to communicate effectively. Students will reinforce reading skills needed to comprehend both fiction and nonfiction text. These skills include the following: learning to read independently; reading critically in all content areas; reading, analyzing, and interpreting literature; types of writing; quality of writing; speaking and listening skills, and applying research skills.

**\*Honors Reading 8**

(0114)

**(8<sup>TH</sup>) FULL YEAR****Prerequisite: Based on teacher and counselor recommendation, test scores and grades.**

This 8<sup>th</sup> grade reading program is logically organized and sequenced so that students build literary, reading, writing, vocabulary, speaking and listening skills. Ample opportunities for practice, remediation, re-teaching, and assessing are offered throughout the course. This 8<sup>th</sup> grade course is designed to provide students with tools and strategies that develop strong reading skills necessary for the demands of the future: to think critically and creatively, to collaborate and to communicate effectively.

Students will reinforce reading skills needed to comprehend both fiction and nonfiction text. These skills include the following: learning to read independently; reading critically in all content areas; reading, analyzing, and interpreting literature; types of writing; quality of writing; speaking and listening skills, and applying research skills.

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# Jr. High Social Studies

## **Early World History**

(0211)

**(7<sup>TH</sup>) REQUIRED, FULL YEAR**

Prerequisite: None.

This course presents an overview of various regions of the world and the environmental conditions to which people adapt. Racial, linguistic, religious and economic groupings of people will be stressed. World events are examined to develop knowledge about historical, geographic, climatic, political and religious environments which people inhabit. The course begins with the study of early human societies, and continues to the fall of the Roman Empire.

## **Civics/PA History**

(0201)

**(8<sup>TH</sup>) REQUIRED, FULL YEAR**

Prerequisite: None.

This Civics course explores the principles and documents of the U.S. Government, how a government works, and citizenship. The course emphasizes “the advantages of the American republican representative form of government as compared with various other forms of government.” Other components of the course includes: A semester of Pennsylvania history and geography.

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# Jr. High Science

## **General Science 7**

(0308)

**(7<sup>TH</sup>) REQUIRED, FULL YEAR**

This course will investigate the nature of science, as well as, the biological sciences in depth. Hands on application of populations and ecosystems using scientific techniques, and methods will be explored. This class will provide opportunities for students to test procedures, collect and analyze data and communicate findings. An inquiry process is incorporated, allowing students to apply knowledge in new situations, to solve problems by generating new ideas, and to make connections between what they learn in class to the world around them. **LAB:** This class will provide opportunities for students to test procedures, collect and analyze data and communicate findings. An inquiry process is incorporated, allowing students to apply knowledge in new situations, to solve problems by generating new ideas, and to make connections between what they learn in class to the world around them.

## **General Science 8**

(0309)

**(8<sup>TH</sup>) REQUIRED, FULL YEAR**

This course builds a foundation in biology, chemistry and physics in preparation for further study in these areas. Hands on application of microorganisms using scientific techniques, and methods will be explored. Also, macro organisms will provide opportunities for students to test procedures collect and analyze data and communicate findings. The inquiry process will be expanded allowing students to apply knowledge in new situations, to solve problems by generating new ideas, and to make connections between what they learn in class to the world around them. **LAB:** This class will provide opportunities for students to test procedures collect and analyze data and communicate findings. An inquiry process is incorporated, allowing students to apply knowledge in new situations, to solve problems by generating new ideas, and to make connections between what they learn in class to the world around them.

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# Jr. High Math

## **Math 7**

(0400)

**(7<sup>TH</sup>) REQUIRED, FULL YEAR**

Students will study the foundations of math in the area of Number Sense, Measurement, Geometry, Algebra and Data Analysis. Special attention will be given to the material that appears on the PSSA's.

## **Math Honors 7**

(0405)

**(7<sup>TH</sup>) REQUIRED, FULL YEAR**

**Prerequisite: Based on teacher and counselor recommendation, test scores, and grades.**

Students will continue studying the foundations of math in the areas of Number Sense, Measurement, Geometry, Algebra and Data Analysis. This will include the material that appears on the PSSA's as well as the skills necessary to succeed in Algebra I and beyond.

## **Pre-Algebra 7**

(0401)

**(7<sup>TH</sup>) FULL YEAR**

**Prerequisite: Successful completion of 6<sup>th</sup> grade math with an 80% or higher, teacher recommendation, and passing score on PSSA.**

Students will study the foundations of math in the areas of Number Sense, Measurement, Geometry, Algebra and Data Analysis. This will include the material that appears on the PSSA's as well as the skills necessary to succeed in Algebra I and beyond.

## **Math 8**

(0402)

**(8<sup>TH</sup>) REQUIRED, FULL YEAR**

Students will continue studying the foundations of math in the areas of Number Sense, Measurement, Geometry, Algebra and Data Analysis. This will include the material that appears on the PSSA's as well as the skills necessary to succeed in Algebra I and beyond.

## **Algebra I**

(0403)

**(8<sup>TH</sup>) FULL YEAR**

**Prerequisite: Successful completion of 7<sup>th</sup> grade Pre/Algebra.**

Students will become familiar with algebraic patterns and operations, solve linear equations and inequalities, and are introduced to polynomial, quadratic, rational and radical functions. Students will apply these concepts to real-world problems and use technology to support and display their findings. The course will focus on the application of these concepts through hands-on applications and exploration using manipulative, including the TI-83 calculator.

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# Jr. High Electives

## **Multimedia 7**

(0606)

(7th) Semester course

**Prerequisite: None**

CS First is a course that increases student access and exposure to computer science (CS) education. The CS First courses involve block-based coding using Scratch and are themed to attract students with varied interests. The goals of the class are: Increase confidence while using the computer; instill courage to try new things; grow perseverance while tackling difficult problems; provide a sense of belonging in technology for underrepresented students; and demonstrate the impact that computer science has in careers and the community.

## **Art 7**

(0703)

(7th) Semester course

**Prerequisite: None**

This course will introduce the principles and theories of drawing, painting, and design. Students will be graded on drawing ability, tests that measure knowledge, art history, principles of art and design, and a sketch book. Weaving, paper-mache, needlepoint, sculpture, and basketry will be taught plus some two-dimensional work.

## **Multimedia 8**

(0607)

(8th) Semester course

**Prerequisite: None**

Multimedia 8 is a continuation of skills learned in Multimedia 7. Students will explore areas introduced in Multimedia 7 on a more in-depth level.

## **Family Consumer Science**

(0735)

(8th) Semester course

**Prerequisite: None**

The field represents many disciplines including **consumer science**, nutrition, food preparation, parenting, early childhood education, **family** economics, human development, interior design, textiles, apparel design, as well as other related subjects.

## **STEMS 8**

(0855)

(8th) Semester Full year course

Students will apply a variety of skill learned in math to solving real world problems. Students will use technology to assist them in finding these solutions (i.e. TI-83 Graphing Calculator). These problems will come from field relating to mathematics, science, and engineering. Students will work in small groups while finding these solutions. Each group will present their findings to the entire class. Also, skills learned in Algebra I will be reinforced.

## **STEMS Honors 8**

(0856)

(8th) Semester Full year course

**Prerequisite: Must be enrolled in Algebra.**

Students will apply a variety of skill learned in math to solving real world problems. Students will use technology to assist them in finding these solutions (i.e. TI-83 Graphing Calculator). These problems will come from field relating to mathematics, science, and engineering. Students will work in small groups while finding these solutions. Each group will present their findings to the entire class. Also, skills learned in Algebra I will be reinforced.

## **Introduction to Industrial Tech**

(0860)

(8th) Semester course

**Prerequisite: None**

This class consists of industrial material technology, power technology and graphic communications technology. All parts of this course include lecture time and hands-on time using tools, materials, and processes of our technological society. Industrial material technology is the study of wood, metal, and plastic technology. Power technology introduces the student to the printing world.

## **Jr. High Band**

(0750)

(7<sup>th</sup>, 8th) Full year course

**Prerequisite: None**

Jr. High Band will focus on further developing the music skills that were learned in 6<sup>th</sup> grade band. Warm ups, scales, sight reading, appropriate music selections and other skills will be worked on. Attendance at two major concerts and any other performance is MANDATORY. Also, everyone will receive an individual lesson on their instrument in addition to full band rehearsals.

# Jr. High Physical Education /Health

## **Physical Education 7**

(0960)

(7<sup>th</sup>) Semester course

**Prerequisite: REQUIRED**

**Physical Ed:** This course is an introduction to physical education at the junior high level. This is an instructional course that introduces the skills, fundamentals, and strategies within individual and team sport (basketball, football, volleyball, hockey, soccer, kickball, softball, badminton, table tennis, etc.) Students will be exposed to fitness testing, calisthenics, physical fitness, weight resistance training, group fitness, and more. The objective is to develop the students physically, mentally, and socially. By the end of the course, students will have a better understanding of personal fitness and the importance of maintaining a healthy lifestyle.

## **Health 7**

(0961)

(8th) Semester course

**Prerequisite: REQUIRED**

**Health:** This course is designed to acquaint 7<sup>th</sup> graders with health issues and concepts. Topics include: Fitness, Nutrition, Bones and Muscles, Infectious Diseases, Sexually Transmitted Diseases, Noninfectious Diseases, Sexual Harassment, Drugs and Alcohol, First Aid, and CPR. By the end of this course, students will have a better understanding of health concepts, such as knowing how to maintain a healthy body, develop smart decision making, and setting life enhancing goals.

**Mandatory:** Students are required to wear a Physical Education Uniform in class. **Proper attire consists of Official "Aliquippa Phys. Ed." t-shirt, shorts, and tennis shoes.** The Official "Aliquippa Phys. Ed." Tee shirt (which is solid red with black logo) costs \$5 and can be purchased by the physical education teacher at the beginning or end of any Phys. Ed. class. Shirts **cannot** be altered in anyway (example: cutting off the sleeves, etc.). The student must also wear solid black, loose-fitting shorts that are at least as long as his/her fingertips **or** solid black loose fitting nylon pants or sweatpants. Shoes must be in good condition having tied laces and rubber tread. No sweat shirts, jackets, headbands, armbands, jewelry, or hats are allowed to be worn during class. The Physical Education uniform is required for all students who take Physical Education at the Junior/Senior High School.