

# Shippensburg Area Senior High School



2018-2019 Program of Studies

# SHIPPENSBURG AREA SCHOOL DISTRICT



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For information regarding civil rights or grievance procedures or for information regarding services, activities and facilities that are accessible to an useable by handicapped persons, contact the Mr. Joshua Lovejoy, Director of Human Resources and Title IX Coordinator at the District Office of Human Resources at 317 North Morris Street, Shippensburg, PA 17257 or at (717) 530-2700; or to the Director, Office for Civil Rights, Education Department, Washington, DC 20201; or to the U.S. Equal Employment Opportunity Commission, (800) 669-4000 (toll-free) or (800) 669-6820 (toll-free TTY number for individuals with hearing impairments).

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## WELCOME

Dear SASHS Families:

The Mission Statement of the Shippensburg Area School District is *“To engage students in a comprehensive, educational program, to maximize their individual potential, to become college and career ready and to compete in a dynamic global community”*. The Program of Studies provides information for students and parents on the different educational programs we offer at Shippensburg Area Senior High School in order for us to prepare our students to compete in this global society.

Please carefully review all the different courses and choose courses based upon your interests, abilities, and goals. We encourage all students to push themselves to their highest educational potential.

The master schedule for the entire school is based upon the selections you make now and, therefore, no schedule changes will be made except for the reasons listed on page 5.

**Students:** Please take this course selection process seriously. You know the direction that you want to go in life, so please choose your program carefully. We have expanded the course offerings in many areas, continue to offer online courses. Please look at all the varied programs and choices before you make your selections

**Parents:** Please meet and discuss these course selections with your son/daughter. Pay close attention to the credit requirements and the course requirements that your son/daughter needs to graduate.

Helping our students be successful is very important to our faculty and administration here at Shippensburg Area Senior High School. If I can help you in that process in any way, please call me at 530-2730, and I will make every attempt to help you choose correctly from our Program of Studies.

As always, our wishes are for continued success for all of our Greyhounds!



Sincerely,

Deborah Luffy, Principal

## **HIGH SCHOOL: 530-2730**

Principal: Deborah Luffy ~ [Deborah.Luffy@ship.k12.pa.us](mailto:Deborah.Luffy@ship.k12.pa.us)

Associate Principal: Gregory C. Miller ~ [Greg.Miller@ship.k12.pa.us](mailto:Greg.Miller@ship.k12.pa.us)

Assistant Principal: Andrew J. Norton ~ [Andrew.Norton@ship.k12.pa.us](mailto:Andrew.Norton@ship.k12.pa.us)

Counselors: Michele M. Dubbs ~ [Michele.Dubbs@ship.k12.pa.us](mailto:Michele.Dubbs@ship.k12.pa.us)

Erica M. Frontino ~ [Erica.Frontino@ship.k12.pa.us](mailto:Erica.Frontino@ship.k12.pa.us)

David J. Lindenmuth ~ [David.Lindenmuth@ship.k12.pa.us](mailto:David.Lindenmuth@ship.k12.pa.us)

## **MIDDLE SCHOOL: 530-2750**

Principal: David Rice ~ [David.Rice@ship.k12.pa.us](mailto:David.Rice@ship.k12.pa.us)

Assistant Principal: Bernadette Benbow ~ [Bernadette.Benbow@ship.k12.pa.us](mailto:Bernadette.Benbow@ship.k12.pa.us)

Counselors: Rosemary Junkin ~ [Rosemary.Junkin@ship.k12.pa.us](mailto:Rosemary.Junkin@ship.k12.pa.us)

Angie McKee ~ [Angie.McKee@ship.k12.pa.us](mailto:Angie.McKee@ship.k12.pa.us)

## **GRADUATION CREDIT REQUIREMENTS**

Students are required to earn a specific amount of credits in order to graduate. All students will need 28 credits to graduate. All students begin to earn credits toward graduation beginning in ninth grade. In addition to the total amount of required credits, courses in the following subjects are required:

<u>Planned Program</u>	<u>Units of Credit</u>	<u>FCCTC</u>
English	4	4
Mathematics	4	3-4***
Science	4	3.5
Social Studies	4	3.5
Wellness/Fitness*	2	2
Art	.50	N/A
Tech Ed	.50	N/A
Family & Consumer Science	.50	.50

\*The Wellness/Fitness class in grade 10 will incorporate the required component of Driver's Education. Behind the wheel training is optional after the student reaches 16 years of age and has obtained a learner's permit. There is a fee required for behind the wheel instruction. The students must contact the driver's education instructor for this training.

\*\*Humanities one credit requirement includes music, practical arts and world language.

\*\*\*Must complete Algebra II & Geometry

## **KEYSTONE EXAMS**

The Keystone Exams are end-of-course assessments designed to evaluate proficiency in academic content. All students must demonstrate proficiency on the Algebra I, Literature, and Biology Keystone Exams to graduate. Students will be offered multiple opportunities to demonstrate their academic Keystone delineated proficiency throughout their high school career.

## **STUDENT GRADING SYSTEM**

During the marking period student academic progress will be communicated as an “earned percentage” accessed by password at the district website (www.shipk12.org). At the end of each quarter the student’s earned percentage in each course will be transferred to the student’s report card.

The student’s earned percentage at each marking period will be averaged to determine the final percentage for the course.

- Students earning a grade below 55 percent in any marking period will receive a 55\* on their report card, except the final marking period.
- Final averaged percentage grades that have a decimal equaling .5 and greater will be rounded to the next highest percentage.
- Final examinations will be given at the conclusion of the course. Final exams are worth 10% of the final course grade.

**GRADING SCALE**

<u>Percentage Range</u>	<u>Letter Grade</u>	<u>Percentage Range</u>	<u>Letter Grade</u>
95-100	A	77-79	C
92-94	A-	74-76	C-
89-91	B+	71-73	D+
86-88	B	68-70	D
83-85	B-	65-67	D-
80-82	C+	64 & Below	F

100\* indicates academic performance above the “A” range.

55\* indicates academic performance falls below the “F” range, improvement is necessary.

**GRADE POINT AVERAGE**

For the purpose of computing grade point averages, the following quality point values will be applied to the earned percentage ranges at each marking period. Grade point average will be computed at each quarter and adjusted by the credit attempted (for the year) and the “weight” of the course.

<u>Percentage Range</u>	<u>Quality Point</u>	<u>Percentage Range</u>	<u>Quality Point</u>
95-100	4.00	77-79	2.00
92-94	3.67	74-76	1.67
89-91	3.33	71-73	1.33
86-88	3.00	68-70	1.00
83-85	2.67	65-67	.67
80-82	2.33	64 & Below	0

**WEIGHTED GRADING**

A system of weighted grading is used in the high school because class rank is an important part of college entrance requirements. This system rewards students for selecting and achieving in more difficult courses. Each nine week marking period grade is converted by a factor of 1.15 for advance placement courses (Level 3) and 1.1 for honor courses (Level 2). Therefore, an “A” would earn 4.6 quality points in the advance placement course, 4.4 quality points in a honor course and 4.0 quality points in a regular course (Level 1)each marking period. Similar distributions are calculated for the other letter grades. Class rank and cumulative grade point average will be recalculated each nine weeks.

**ADVANCED PLACEMENT (A.P.)** – (Entrance to an Advanced Placement class is based upon the recommendation of the teacher in their prior class in this subject area.)

A.P. English 12 (Literature & Composition)  
A.P. English 11 (Language & Composition)  
A.P. U.S. History  
A.P. Calculus AB & BC  
A.P. Studio Art  
A.P. Art History  
A.P. Comparative Government & Politics  
A.P. Chemistry  
A.P. Biology  
A.P. Physics  
A.P. Psychology  
A.P. French  
A.P. World History

**ADVANCED PLACEMENT – VIRTUAL**

A.P. Spanish  
A.P. Micro Economics  
A.P. Macro Economics  
A.P. U.S. Government

**HONORS** – (Entrance to an Honors class in 9<sup>th</sup> grade is based on the student's 8<sup>th</sup> grade PVASS score in that subject area, the actual grade received in marking period 1 and 2 in the 8<sup>th</sup> grade class of that subject area and/or teacher recommendation from that 8<sup>th</sup> grade subject area. Entrance into an Honors class in 10<sup>th</sup> grade is based on the teacher recommendation from that 9<sup>th</sup> grade subject area.)

Honors Mastering Literature 9  
Honors Mastering Literature 10  
Honors French II, III & IV  
Honors Spanish II, III & IV  
Honors Pre-Calculus  
Honors Geometry  
Honors Algebra II  
Honors Algebra III/Trigonometry  
Honors Earth Science  
Honors Biology  
Honors Physics  
Honors Environmental Science  
Honors United States History

## EXPLANATORY NOTES AND COMMENTS

1. Students will be required to take assessments, required by the Chapter 4, administered by PDE or by the Shippensburg Area School District which require proficient student performance. Proficient assessment performance will be a graduation requirement. All students who do not score proficient on these assessments, may be offered remediation.
2. All students planning to attend the Franklin County Career and Technology Center (FCCTC) must have all required ninth grade core course credits successfully completed prior to grade 10 and must demonstrate a planned course of study for on-time graduation throughout their FCCTC career.
3. The following courses or assignments must be completed for graduation:
  - Junior Research Project
  - Senior Economics Research Paper – (Emphasis on Global Economy)
4. Up to one credit of Agricultural Science Courses may be counted towards a student's Science credits for graduation.
5. Up to one credit of Computer Science, (Java Script and/or HTML Programming) courses may be counted towards a student's Math credits for graduation.
6. In the event a required subject is failed, that subject must be repeated the following term or in summer school, if available.
7. All student schedules will be created to eliminate study halls.
8. If a student chooses to withdraw from a course after 10 school days (5 school days for a .50 credit course) has elapsed, the student will receive a grade of 55 for the course.
9. If a course has a prerequisite and the student does not meet the prerequisite for the course, a course waiver form (available from the guidance office) must be signed by the student, teacher and the parent/guardian.
10. The high school schedule uses a modified block schedule. There are four main blocks of time, each 84 minutes in length. A student has a class each block. A student may also have a class that is broken into half a block or what we call a "skinny". The skinny will last 40 minutes and there can be two skinnies in a block. Between block 2 and block 3 we have a flex period. The purpose of the flex period is for remediation or enrichment. On a normal Monday-Friday week we will have a flex each day and that flex will correspond with the block that the student will return to for remediation or enrichment. For example, Monday is generally a flex 1 day, meaning during flex that day, the student returns to their block 1 class for support. Tuesday would be a flex 2, where the student would go back to block 2 and so on. Flex 3 is our lunch block. We have four (4) lunches, A, B, C and D and the students are each assigned to one of these lunches. The student will have a class and a lunch (30 minutes in length) during block 3.
11. The Senior High School does not send out paper report cards at the end of each marking period. Grades are updated weekly and alerts will come out to parents/guardians via the Home Access Center if their son/daughter is failing a course. At the conclusion of each nine (9) weeks (four times per year), final exams are given, grades are finalized and the end of the marking period grade will be available on the Home



Access Center for each course the student is taking. If a parent/guardian does not have access to a computer, the parent/guardian may request a paper report card and one will be printed at the Senior High School Guidance Office.

## 12. Schedule Changes:

Shippensburg High School's schedule change policy is intended to encourage students (and their families) to carefully consider initial course selections. Thorough consideration should be given to course selections for the next school year **BEFORE** and **DURING** the course scheduling process. Preliminary **DRAFT** schedules for the next school year will be distributed to students prior to the end of the current school year. Schedules should be carefully reviewed once received.

Students may request schedule changes, once schedules are received, by contacting the guidance office. All schedule change requests must be completed at least one week before the start of the school year.

Schedule changes after the above deadline, will only be accepted for the following reasons:

- Missing course/period
- Courses out of sequence (e.g. Spanish II before Spanish I)
- Lack of prerequisite
- Post-secondary requirements (Seniors only)
- Upgrade to a more challenging course

If you require a change for one of the reasons listed above, complete a schedule change request form and promptly return it to the Guidance Office.

Please be aware that Draft schedules may be altered over the summer, as courses are altered or balanced

## 13. Guidelines for National Honor Society are as follows:

The National Honor Society recognizes academic excellence, service to the school and community, leadership, and good character. The purpose of this organization is to promote excellence and to practice excellence in four specific areas as defined by the Constitution of the National Honor Society and the guidelines of the National Association of Secondary School Principals. These areas are academia, school and community service, leadership, and personal character. Membership into the NHS is acquired through the following process:

- a. All students who attain a 3.80 grade point average or higher at the end of the 10<sup>th</sup> grade or 11<sup>th</sup> grade school year shall be informed by a faculty council member or individual letter of their eligibility. This average remains fixed as a minimum level. The minimal GPA must be maintained. If a student receives an "F" for any marking period, that student will be put on NHS Probation.
- b. A faculty advisory committee will review and evaluate each student's application on the basis of scholarship, leadership, character, and service.
- c. Leadership criteria include consideration of offices a student has held in school and community organizations and also verifiable leadership outside of elected positions in varying activities.

- d. Service criteria are defined in terms of overall contributions to the school, community, and other groups or individuals.
- e. Students may be excluded or dismissed from membership on the basis of character because of violations of school rules and regulations, violations of civil law, and for areas of deportment as reviewed by the faculty council.
- f. The selection of each member shall be by a majority vote of the faculty council. Membership in the NHS is an honor and a privilege. Once selected, members must pledge to uphold the high standards of the society by serving others, developing leadership potential, and maintaining a high level of academic achievement. In relation to character, a member may be dismissed for violations of school rules and regulations and/or violations of civil laws. Members who are proposed for dismissal shall be granted a hearing before the faculty council. Specific activity participation including, but not limited to the induction process and ceremony, charity fund-raiser, and school and community service is a requirement for a student to be maintained as an active member.

In addition, there are additional Honor Societies at SASHS, each with their own criteria for membership. They are *Art Honor Society*, *French Honor Society* and *Spanish National Honor Society*, and *Math Honor Society*.

## **REQUIRED COURSES**

Planned courses in the following subjects are **required** for all students in grades 9, 10, 11 and 12.

ART (.50 total credit)

FAMILY CONSUMER SCIENCE  
(.50 total credit)

ENGLISH (4 total credits)

Mastering Literature 9

Mastering Literature 10

American Literature & Composition or

AP Language and Composition

Senior English (see page 15)

TECH ED (.50 total credit)

Tech Ed, Computer Applications I/II

MATHEMATICS (4 total credits)

SCIENCE (4 total credits)

Biology

Environmental Science

2.5 additional Science credits

SOCIAL STUDIES (4 total credits)

United States History

World History or AP World History

Government or AP U.S. History

Economics or AP Comparative Government

0.5 Additional Social Studies Credit

(If AP Government is not selected)

WELLNESS & FITNESS (2 total credits)

Wellness & Fitness 9

Wellness & Fitness 10

Wellness & Fitness 11

Wellness & Fitness 12

# **AGRICULTURE**

## **AG100 Agriculture Science (9&10)**

### **.50 credit**

This course, designed primarily for ninth and tenth grade students will provide basic knowledge and skills in FFA leadership, defining agriculture, animal science, plant, technology in agriculture, natural resource management, and careers in agriculture. Students are encouraged to develop a hands-on approach to agricultural technology through experimentation and critical thinking.

This is the base course upon which the balance of the agricultural curriculum has been taught.

## **AG101 Agricultural Mechanics .50 credit**

This course will involve the laboratory application of Agriculture Mechanics, including the use of all power tools used within an agriculture shop. At the marking period end the students will show their proficiency within the shop setting by completing a shop project. All students will incur personal expenses for this project.

## **AG110 Introduction to Horticulture (10-12)**

### **.50 credit**

This course develops all aspects of the horticulture industry. Students will learn about soil science, plant propagation, greenhouse production, and landscape management. Students will produce a crop and design flower arrangements and centerpieces.

## **AG120 Companion Animal Science (10-12)**

### **.50 credit**

This course is designed for those students wishing an in depth study of the companion animal field. Students will identify companion animal characteristics, nutrition, housing and equipment, and proper handling techniques. Live animals will be used for enhancement of study within this course.

## **AG130 Equine Studies (10-12) .50 credit**

This course is an intensive study of the principles and practices dealing with the Equine species. This class will include an introduction to the history of the horse, classifications of the different breeds, the anatomy and nutrition of the species, and the proper care and handling techniques.

## **AG135 Wildlife Management (10-12) .50 credit**

This course will investigate species of Pennsylvania and the United States, such as common mammals, song birds, and fish. We will also look at the habitats that the

different species live in, and how to maintain or improve their habitats. This course will also investigate wildlife management techniques, such as counting populations, over harvesting, and carrying capacities. Lastly, the course will look at the effect that invasive species have on our environment.

## **AG200 Veterinary Science and Technology**

### **(10-12) .50 credit Prerequisite: AG120 & AG230**

The course will introduce the students to the equipment, practices and procedures encountered in a post-high school vet tech program and career. Animal welfare issues will be addressed in this course along with the proper care and handling of small and large animals.

## **AG210 Agricultural Leadership Development**

### **(10-12) 1 credit**

This course is open to all sophomore, junior and senior students and is required for FFA Chapter Officers and highly recommended for Committee Chairpersons.

Using the FFA as a course model, the students will develop their leadership skills through public speaking and parliamentary procedure activities. Other areas of focus in the course will include group dynamics and team building, problem solving and decision making, and goal setting and planning for success. All class members are required to deliver both a persuasive and an instructional speech in class, prepare a resume or college application, and demonstrate proficiency in parliamentary law.

## **AG230 Production Animal Science (10-12).50 credit**

This course is designed for those students wishing an in depth study of animal science biology, practical application of science, evaluation of animals, quality milk production, nutrition management and alternative agriculture. Species covered in this course include: dairy and beef cattle, sheep, swine, goats, and poultry.

## **AG240 Small Gas Engines (10-12) .50 credit**

This course involves technical training, instruction, and hands-on shop work covering the application of small gasoline engines and electric motors to agricultural power systems. Students are expected to overhaul or repair a small gasoline engine as part of the shop work.

## **AG220 Supervised Agricultural Experience I 1 credit (Independent Study)**

## **AG320 Supervised Agricultural Experience II 1 credit (Independent Study)**

### **AG420 Supervised Agricultural Experience III 1 credit (Independent Study)**

Students will maintain an out of school supervised career development project for this course. The students must be enrolled in at least one in school agriculture class to enroll in the SAE program. The agricultural instructor will supervise the project and the class grade will be assigned by grading of the students project records and teacher visitation to the project site. Students must take this course and maintain FFA membership if they wish to exhibit a project in FFA competition. The intent of this course is for students to expand upon their knowledge and experience by being responsible for this practical program.

### **AG430 Career & Technical Education (Work Release)**

**(12) 1 credit Prerequisite:** *SAE class in addition to any Agriculture Education class*

This option is available, with teacher and administration approval, to seniors who have previously completed an SAE class and at least one other course in Agricultural Education. A satisfactory cooperative work agreement must be completed with an employer other than parents.

## **ART**

### **ART100 Design (9-12) .50 credit**

Design is a foundation course recommended for anyone with an interest in art. Students will develop their understanding of visual communication through study of the elements and Principles of Design in a variety of activities including printmaking, computer graphic design, and three-dimensional design. *This class is a prerequisite for Advanced Design, Ceramics and 3-D Design.*

### **ART110 Drawing (9-12) .50 credit**

Drawing is a foundation course recommended for all students interested in art. Students will investigate a variety of drawing techniques and materials using both observation and imagination. Art production in combination with the studies of elements and Principles of Design, art history and aesthetics will broaden a sense of context. *This course is a prerequisite for Painting, Ceramics and 3-D Design.*

### **ART200 Painting I (9-12) .50 credit**

**Prerequisite:** *Drawing*

Students are introduced to painting media including watercolor, acrylic, and oil paint. Skills from basic

drawing are used to improve observational skills to create landscape, portraiture and still life compositions. Students learn about brush stroke, color mixing and the differences between painting media. The historical and cultural aspects of painting are also explored. *A sketchbook is required.*

### **ART210 Advanced Design (10-12) .50 credit**

**Prerequisite:** *Design*

Advanced Design builds upon the concepts from Design, providing opportunities for creative problem solving while exploring a broad range of materials and techniques. Students will develop a personal Design identity, delving into printmaking techniques, hot and warm glass methods, jewelry design, fiber arts, digital photography and Adobe Photoshop. *This course is a prerequisite for digital Graphic Design.*

### **ART215 3-Dimensional Design (10-12)**

**.50 credit Prerequisite:** *Drawing or Design*

Three-dimensional Design students investigate both the expressive nature of the sculptor and the logistical concerns of the engineer through the creation of 3-D objects. Students will develop an understanding of the relationship between space and object, while considering the role each plays in shaping the other. Students will create work in a variety of materials such as wood, paper and clay.

### **ART220 Media Arts .50 credit**

Art is ever evolving. In the 21<sup>st</sup> Century, art and technological tools are more and more entwined. This class provides opportunities for visual problem solving combining digital media and traditional artistic tools. Students will investigate contemporary artists and their methods.

### **ART225 Ceramics I (10-12) .50 credit**

**Prerequisite:** *Drawing or Design*

Ceramics deals with the properties of clay as an artistic medium. Students explore the design and creation of functional and non-functional objects using slab, coil, and wheel throwing techniques. The firing process, finishing techniques and historical and cultural aspects of ceramics are covered. *This course is a prerequisite for Ceramics II.*

### **ART230 Ceramics II (10-12) .50 credit**

**Prerequisite:** *Ceramics I*

Ceramics II provides students with the opportunity to refine methods of clay construction, building on their

experience from Ceramics I while developing a personal style and focus. The course will further explore glazing and firing techniques, and students will apply research into specific ceramics traditions as they develop their skills.

### **ART300 Digital Graphic Design (10-12)**

**.50 credit Prerequisite:** *Advanced Design*

The American Institute of Graphic Arts (AIGA) defines graphic design as, "...a creative process that combines art and technology to create ideas." In this advanced class, students will utilize design elements and principles and a variety of traditional and digital media to create aesthetically pleasing visual products in a client-responsive environment. Students will gain experience in managing complex, self-directed projects through the synthesis of digital photography, illustration, page layout design, and typography. The Adobe Creative Suite (Illustrator, InDesign, and Photoshop) will be taught and used throughout the course.

### **ART310 Advanced Drawing and Painting (10-12) .50 credit Prerequisite:** *Painting I*

Advanced Drawing and Painting allows students to use the knowledge gained from Painting I to create work that reflects a personal style. Students are expected to use experimental techniques and construct surfaces on which to draw and paint. Advanced compositional techniques are emphasized. A *sketchbook is required*.

### **ART320 Portfolio (11 & 12) .50 credit**

**Prerequisites:** *Drawing and two additional art courses or with the approval of the art faculty.*

Portfolio allows students who are interested in pursuing a career in the visual arts or related fields to develop a portfolio of art work that represents their knowledge and understanding of visual art. Work from previous art classes as well as new work created in the class is inventoried and photographed for a digital portfolio that can be used for application to art schools and colleges. *A sketchbook is required.*

### **ART900 Advanced Placement Studio Art (12) 1 credit Prerequisite:** *Approval by the art faculty before scheduling the class.*

AP Studio Art is a college level class for highly motivated art students planning to pursue a college degree in visual art. Students prepare a portfolio of work that is submitted to the College Board as an

exam. The portfolio consists of three parts; a quality section (5 works), concentration (12 works) and Breadth (12 works) Students select one of three types of portfolios to explore: 2D, 3D or Drawing. Summer assignments and *a sketchbook are required.*

### **Advanced Placement Art History (10-12), 1 Credit**

***There are no prerequisites; however, it is recommended that students have passed Honors Mastering Composition I with a "B" or better and have passed a high school studio art course.***

AP Art History explores the nature of art and artmaking, relationships and meanings of art within cultural contexts, and human responses to art. It is structured around an in-depth study of art from around the globe, prehistoric period to the present. A rigorous course, students develop an understanding of content by employing of a variety of methods of investigation and analysis of both primary and secondary resources. Students electing A.P. Art History should have a significant interest in the visual arts and its cultural and historical influence. The workload and quality expectations are those of an introductory college level course. Summer reading and assignments are required. A research project, in-class presentations and discussion as well as extensive subject-area reading and writing (both in and outside of class) and other activities are required of all students. A variety of article-based readings and written responses supplement the textbook. In addition to other assessments, there is a midterm and a final examination. Though not required, students may elect to take the College Board's AP Art History Examination offered in the Spring.

## **BUSINESS COMPUTER & INFORMATION TECHNOLOGY**

### **BUS110 Computer Applications I .50 credit**

This introductory course will expose students to the **basic** features and functions of Microsoft Word, , PowerPoint, and Excel. A variety of web 2.0 tools will also be explored.

### **BUS230 Computer Applications II (10-12)**

**.50 credit** *Prerequisite: Computer Applications or teacher permission*

This course focuses on using advanced features of Microsoft Word, Excel, PowerPoint, and Publisher. Students will be taught additional web 2.0 and Google productivity tools.

### **BUS200 Personal Finance (11 & 12) .50 credit**

This course is designed to give students competence in areas of personal finance. Topics covered include the following: bank accounts, gross and net pay, taxes, purchasing insurance, buying a car, establishing and maintaining good credit, buying a house, and savings and investments.

### **BUS210 Accounting I (10-12) 1 credit**

This course is a necessity for any student interested in working in the business world, owning a business, or majoring in business during college.

### **BUS310 Accounting II (11 & 12) 1 credit**

*Prerequisite: Accounting I*

This course is a continuation of Accounting I. This course will study the accounting cycle of a corporation. Two accounting simulations will be completed during this course. Any student pursuing business in a post-secondary setting should take this class.

### **BUS220 1, BUS320 2 Scroll Yearbook**

**Production (11&12) 1 credit** *Prerequisite:*

*Successful completion of Mastering Literature (An Application is required)*

This course is designed to construct, edit, sell and distribute the school yearbook. Students are responsible for developing a theme, designing layouts, writing copy, selecting photographs, and preparing pages using the latest publication technology.

### **BUS240 Entrepreneurship (10-12) .50 credit**

This course will identify unique characteristics of an entrepreneur and evaluate the degree to which one possesses those characteristics. Students will study the fundamentals of a comprehensive business plan and create a business plan for a future business they would like to own.

### **BUS250 HTML Web Design (10-12).50 credit**

This course introduces students to basic web design using HTML (Hypertext Markup Language) and CSS

(Cascading Style Sheets). Throughout the course students are introduced to planning and designing effective web pages using HTML and CSS code. Students will produce functional multi-page websites by the end of this class.

### **BUS270 Computer Science: JavaScript Programming (10-12) .50 credit**

*Prerequisite: HTML Web Design and/or teacher permission*

This is a beginning course in computer programming emphasizing object oriented programming and problem solving. Students will begin with block based coding where they learn to drag and drop correct coding into a text editor. Students will then move onto adding JavaScript to HTML coding which adds more dynamics and interactivity within a webpage. This is a must have course for any student interested in computer science.

### **BUS300 Career Exploration (11-12) .50 credit**

This course will concentrate on exploring future options such as: college, military, and the work force. Post-secondary education options including scholarships and financial aid will be discussed. Students will complete a job search including writing a cover letter, resume, and interviewing. The 16 career clusters will also be explored.

## **ENGLISH**

English classes will be taught on several levels. Each student should select an appropriate level considering his/her ability and his/her plans after graduation. Honors courses are rigorous and prepare students for AP level courses. Academic is structured for students who plan to attend college. All levels will focus on the following: The path that you are following, college preparatory, two year college/technical, or school-to-work, will determine the level of English that you take.

- the writing process
- specific skills in reading, writing, speaking, and listening
- research including proper documentation
- outside reading
- public speaking

### **ENG108 Literature Keystone Project .50 credit**

This course contains the Project Based Assessment (PBA)\* required to fulfill the Keystone subject area

graduation requirement. \*See PBA under **OTHER** on page 24.

### **ENG120 Mastering Literature 9 1 credit**

This course is a literature survey with concentration on composition skills: which includes several major works (plays, novel, short stories, poetry); works selected will reflect an assortment of the literature of the specific courses (i.e. World, American, British/European and Contemporary Literature).

Writing (style, tone, focus, organization, conventions), grammar, documentation of sources, note-taking, outlining, listening skills, purposes for writing (formal vs. informal), electronic vs. traditional writing formats, persuasive, narrative, descriptive, technical, basic reading strategies, vocabulary may be included; the goal is to meet needs of Keystone Test for composition.

### **ENG130 Academic Mastering Literature 9 1 credit (NCAA Approved)**

This course is a literature survey course with concentration on composition skills: which includes several major works (plays, novel, short stories, poetry); works selected will reflect an assortment of the literature of the specific courses (i.e. World, American, British/European and Contemporary Literature). Writing (style, tone, focus, organization, conventions), grammar, documentation of sources, note-taking, outlining, listening skills, purposes for writing (formal vs. informal), electronic vs. traditional writing formats, persuasive, narrative, descriptive, technical, basic reading strategies, vocabulary may be included; the goal is to meet needs of Keystone Test for composition.

### **ENG140 Honors Mastering Literature 9 1 credit (NCAA Approved)**

This course is a literature survey with concentration on composition skills: which includes several major works (plays, novel, short stories, poetry); works selected will reflect an assortment of the literature of the specific courses (i.e. World, American, British/European and Contemporary Literature).

Writing (style, tone, focus, organization, conventions), grammar, documentation of sources, note-taking, outlining, listening skills, purposes for writing (formal vs. informal), electronic vs. traditional writing formats, persuasive, narrative, descriptive, technical, basic reading strategies, vocabulary may be included; the goal is to meet needs of Keystone Test for composition.

### **ENG220 Mastering Literature 10 1 credit**

This course includes several major works (play, novel, short stories, and poetry). The works selected will reflect an assortment of the literature of the specific courses (i.e. World, American, British/European; Contemporary); the goal is to meet needs of the Keystone Exam for literature.

### **ENG230 Academic Mastering Literature 10 1 credit (NCAA Approved)**

This course includes several major works (play, novel, short stories, and poetry). The works selected will reflect an assortment of the literature of the specific courses (i.e. World, American, British/European; Contemporary); the goal is to meet needs of the Keystone Exam for literature.

### **ENG240 Honors Mastering Literature 10 1 credit (NCAA Approved) Prerequisite: Grade of "A" in ENGI40 or written recommendation from previous English teacher and an "A" average in ENGI30**

This course includes several major works (play, novel, short stories, and poetry). The works selected will reflect an assortment of the literature of the specific courses (i.e. World, American, British/European; Contemporary); the goal is to meet needs of the Keystone Exam for literature.

## **ENGLISH 11**

### **ENG320 American Literature & Composition (11) 1 credit**

This course will be extending skills taught in Mastering Composition I, a major research paper, vocabulary, the goal is to prepare students for further education in college, technical school, or entry into the workplace. This course will familiarize students with American writers, with the periods of development of American literature, and with the characteristics that make our literature distinctly American. This course includes formal speeches, compositions, vocabulary units, literary analysis projects and at least two novels.

### **ENG340 Academic American Literature & Composition (11) 1 credit (NCAA Approved)**

This course will be extending skills taught in Mastering Composition I, a major research paper, vocabulary, skills the goal is to prepare students for



further education in college, technical school, or entry into the workplace. This course will familiarize students with American writers, with the periods of development of American literature, and with the characteristics that make our literature distinctly American. This course includes formal speeches, compositions, vocabulary units, literary analysis projects and at least two novels.

### **ENG900 Advanced Placement English (11)**

#### **(Language and Composition) 1 credit**

**(NCAA Approved) Prerequisite:** An “A” in

*ENG240 or written recommendation from previous English teacher and an “A” average in ENG230*

Advanced Placement English offers a challenging college level class for highly able high school students with a strong interest in reading and writing. College credits will be based on the AP test score and the cooperating institution. The course combines a survey of American literature with an intensive writing curriculum. Further, students will focus on analysis, reasoning, and expressions of ideas in prose passages and demonstrate their mastery of various rhetorical modes through their own writing. Students must complete a summer reading list of three novels and must write essays based on those works. Summer reading assignments must be completed on the specified dates or the student will be placed in an academic English class.

## **ENGLISH 12**

*\*Students in Grade 12 must take one Credit of English. This may be fulfilled by taking either AP English (Lit & Comp), or Academic British Literature and an additional English course. Academic Cultural Literature and additional English Course or Contemporary Literature and additional English Course.*

### **ENG405 Contemporary Literature (12) .50 credit**

Students who select the Contemporary Literature course will explore universal themes in both classic and contemporary literature. Students will be exposed to various cultural elements as expressed through literature, various media, the arts, and local resources. Reading, writing, speaking and listening skills will be emphasized throughout the course through a variety of assignments and activities. Formal speeches, memorization, compositions, including literature-based writing projects will be included in the course.

### **ENG408 Academic British Literature (12)**

#### **.50 credit (NCAA Approved)**

This course is an in-depth college bound survey of literature of significant writers from the applicable relevant period to the twenty-first century. It will include reading and responding to poetry, drama, essays, journals, stories and novels. This class will include a properly documented independent research project. Formal speeches, compositions, memorization, a literature-based writing project, and at least four novels are included in this course.

### **ENG410 Academic Cultural Literature**

#### **(12) .50 credit (NCAA Approved)**

Academic Cultural Literature is a rigorous culturally-enriched course in the language arts curriculum. Polishing good speaking skills through four required speeches on major artists, composers, philosophers and the social principles of religion is a major outcome of the course. One of the highlights of the course is a one day field trip to the cultural centers in Washington, D.C. Students will be expected to complete journals and cultural papers.

### **ENG901 Advanced Placement English (12)**

#### **(Literature & Composition) 1 credit**

**(NCAA Approved) Prerequisite:** An “A” average in *ENG900 or an “A” average in ENG340 and a recommendation from a previous teacher.*

Advanced Placement English is a college-level course designed to prepare students for the AP test in English Literature and Composition. College credits will be based on the AP test score and the cooperating institution. The course involves intensive reading, writing, and critical analysis of literary works. Included in the course are units on the novel, poetry, short story, and drama followed by a chronological approach to English Literature. Students should be highly motivated and prepared to participate in class.

## **ENGLISH ELECTIVES**

### **ENG430 Academic World Literature (11&12)**

#### **.50 credit (NCAA Approved)**

Through an accelerated thematic, geographical or chronological approach, students will read novels, short stories, poetry, essays, drama, biography and autobiography that include major themes such as death, love, prejudice, maturity, displacement, family heroism, friendship, loyalty, change and the need for acceptance. This course will emphasize classical

works and include literature selections that represent cultures throughout the world.

**ENG500 Myth and Folktale (10-12) .50 credit  
(NCAA Approved)**

Students will read myths, legends, folktales, and fairy tales from around the world. The course will explore the common threads found in world myth and folklore, as well as the influences of those myths and folktales on modern culture. Students will write an original myth or folktale.

**ENG501 Children's Literature (10-12).50 credit**

Students will consider the effect of children's literature on societal norms and values. Students will read and analyze various forms of children's literature. Selections will include picture books, both classic and contemporary children's novels, poetry and fairy tales. Students will write a research paper.

**ENG503 Debate (10-12) .50 credit  
(NCAA Approved)**

In this course the student will learn basic concepts, principles, and mechanics of scholastic debate. Students will thoroughly research the current national debate topic of the National Forensic League, learn the principles of argumentation, develop logical and consistent arguments (both pro and con) based on that topic, and debate that topic using both the traditional debate format and the Lincoln-Douglas debate format.

**ENG504 Journalism I (10-12) 1 credit**

**Prerequisite: Two English teacher recommendations and an "A" or "B" in most recent English course.**

The students in Journalism I are responsible for the publication of the SASHS newspaper, "*The Maroon and Grey Today*". Students will get experience in brainstorming "newsworthy" story ideas, creating headlines, researching information and sources, interviewing subjects, editing and creating a final layout. Legal and ethical topics in Journalism are also taught. This is an excellent background course for students interested in pursuing Journalism as a college major or possibly a career. Experience with Microsoft Publisher is helpful, but not required.

**ENG505 Political Fiction .50 credit  
(NCAA Approved)**

In this elective students will be reading fiction that is motivated by politics. Students will be comparing and

contrasting our modern-day political landscape with novels like *1984*, *Fahrenheit 451*, *Catch 22*, and *Brave New World*.

**ENG507 Creative Writing .50 credit**

This course aims to teach students the necessary skills to write fictional short stories and novels. Students will receive various writing prompts that they will respond to and discuss with others in the class. We will cover various components of writing such as characterization, point of view, plot and dialogue.

**ENG508 Drama (11 & 12) .50 credit**

Students will learn dramatic terminology of various types (Shakespearean, Greek, modern), stage terminology and acting skills. Students will read dramas of various types (multicultural, feminist, etc.). One paper and live performance required.

**ENG509 World War II Literature (11 & 12)  
.50 credit**

This course will broaden students' understanding of the WWII Holocaust through the reading of numerous types of literature, especially the novel. These may include *Night*, *The Diary of Anne Frank*, *The boy in the Striped Pajamas*, *The Book Thief*, and others.

**ENG510 College Writing (11 & 12) .50 credit**

The college writing course will be a comprehensive review and enrichment of grammar rules, composition skills, and research techniques that are necessary for a successful transition into post-secondary study. Writing strategies for narrative, expository, analytical, and argumentative/persuasive essays will be applied to a variety of scenarios including but not limited to; SAT essays, college application essays, personal essays, and open ended essay prompts from a variety of subjects.

**ENG514 Journalism II (11 & 12) 1 credit**

**Prerequisite: Successful completion of Journalism I and recommendation of the Journalism teacher.**

Journalism II students will take a leadership role in the story selection, design and overall final publication of the school newspaper. Students in Journalism II will serve in key roles working with the advisor including newspaper editor and assistant editor. These students will serve as mentors to students in Journalism I. They will also receive more in-depth study of journalistic ethics and career choices in the field.

## **FAMILY & CONSUMER SCIENCE**

### **FCS100 Family Consumer Science (9).50 credit**

An overview of FCS. Three main areas of Family and Consumer Science are discussed. First students will learn about managing their personal finances related to understanding paychecks, building budgets and managing personal accounts. Students will then focus on the American Family, why we form this unit, the goals of families including but not exclusive to child development and family life. Students then have the opportunity to learn about building a healthy diet and making good food choices. They will learning how to follow recipes to make food in a safe and sanitary environment.

### **FCS210 Nutrition and Foods I (10-12).50 credit**

This course will cover basic nutrition information such as the Dietary Guidelines, reading and interpreting nutrition labels, the six nutrients and dietary guidelines, energy balance and weight management. Students will also demonstrate culinary skills such as kitchen safety, sanitation, and different methods of food preparation. This course will emphasize healthy eating habits and will provide students with knowledge to help them make healthier choices both in and away from home.

### **FCS220 Nutrition and Fitness (10-12) .50 credit**

The purpose of this class is to enhance student knowledge and awareness to supplement healthy lifestyle and nutrition techniques as it pertains to athletes and those interested in bettering themselves physically. Units covered will be: The 6 Nutrients, Metabolism, Weight Gain and Weight Loss, Pre and Post workout nutrition, Pre-game nutrition, Aerobic vs. Anaerobic activity, Hydration and Nutritional Supplements.

### **FCS230 Child Development I (10-12) .50 credit**

Students study child development from pregnancy to preschool. Topics include the healthy development of the child throughout pregnancy, infancy and preschool years. Nutrition for children, guidance techniques and Developmentally Appropriate Practices are also discussed. Students will then plan, teach and run a nursery school program. They will develop a working knowledge of the development and care of children.

### **FCS232 Child Development II (10-12)**

**.50 credit Prerequisite: a "B" or higher grade in Child Development I**

Students will further investigate child development focusing on enhancing and understanding of Developmentally Appropriate Practices and how they can be applied to preschool teaching for young children. During this course the students will be responsible for planning and teaching a nursery school day then reflecting on their teaching techniques and suggesting improvements.

### **FCS310 Nutrition and Foods II**

**(10-12).50 credit Prerequisite Nutrition and Foods I**

This course will expand on the topics covered in Nutrition and Foods I. Along with more advanced food preparation, this course will offer a more in depth look at vitamins and minerals, and introduce new topics. Culinary skills will be expanded with an emphasis on creativity through activities such as cake decorating and full meal preparation.

## **MATHEMATICS**

### **MATH100 Honors Geometry (9&10) 1 credit**

**(NCAA Approved) Prerequisite: Algebra I**

This demanding course investigates various types of reasoning patterns with a focus on proofs using a variety of techniques. It covers two and three-dimensional figures and their properties, formulas and measurements and constructions. This course includes long term investigations and activities to model geometric applications. It contains applications in graph theory, non-Euclidean geometry and coordinate geometry.

### **MATH101 Honors Algebra II (9) 1 credit**

**(NCAA Approved) Prerequisite: Algebra I**

This rigorous course will be extending the skills that were taught in the Algebra I course. Students will lengthen their learning of linear equations and systems of equations. Students will study matrices, functions, quadratic equations, logarithms, and complex numbers.

### **MATH106 Algebra I – Quadratic Equations 1 credit**

This course is the basis for Module 1 of the Keystone exam. Topics covered include inequalities, systems of equations, exploring polynomials, factoring and quadratic equations. Graphing calculators will be used extensively.

### **MATH107 Algebra I – Linear Equations 1 credit**

This course is the basis for Module 2 of the Keystone exam. Topics covered include solving equations, functions, proportional reasoning and linear equations. Graphing calculators will be used extensively.

### **MATH108 Algebra Keystone Project**

**.50 credit**

This course contains the Project Based Assessment (PBA)\* required to fulfill the Keystone subject area graduation requirement. \*See PBA under **OTHER** on page 24.

### **MATH200 Geometry (9-12) 1 credit**

**(NCAA Approved) Prerequisite: Algebra I**

This course will cover measurement systems and constructions using those systems. The course investigates various types of reasoning and proof techniques. It covers two and three-dimensional figures and the properties and formulas associated with these figures. It also includes long-term investigations and activities to model geometric applications.

### **MATH201 Algebra II (9-12) 1 credit**

**(NCAA Approved) Prerequisite: Algebra I**

This course is a continuation of Algebra I. It develops the student's ability to apply abstract concepts to solutions of problems using matrices, functions, and graphs. Students will learn how to use the quadratic equations to solve application problems.

### **MATH250 Algebra III/Trigonometry**

#### **MATH260 Honors Algebra III/Trigonometry**

**1 credit (NCAA Approved) Prerequisite: Algebra II & Geometry**

Students will be introduced to key concepts and techniques in advanced algebra. Students will learn basic trig ratios and the unit circle. Students will solve problems using trig identities, the Laws of Sines and Cosines, and linear and angular velocity.

### **MATH300 Honors Pre-Calculus (10&11)**

**1 credit (NCAA Approved) Prerequisite: Honors Algebra III/Trigonometry**

This course is designed for the student who wishes to take A. P. Calculus in high school or Calculus in college. The content is a study of all types of elementary functions, analytic geometry, and trigonometry.

### **MATH 303 Mathematical Modeling 1 credit**

**Prerequisite: Algebra 2, Geometry**

The overall goal of this course is to enable students to

build mathematical models of real-world systems, analyze them, and make predictions about behavior of these systems. Variety of modeling techniques will be discussed with examples taken from physics, biology, chemistry, economics, and other fields. The focus of this course will be on seeking connections between mathematics and physical systems, studying and applying various modeling techniques to create a mathematical description of these systems, and using this analysis to make predictions about the system's behavior.

### **MATH301 Pre-Calculus (10-12) 1 credit**

**(NCAA Approved) Prerequisite: Algebra III/Trigonometry**

After a review of essential topics from Algebra II, this course includes theory and use of coordinate geometry, functions, and complex numbers. Students who are considering college or technical school should take this course to be prepared for math placement testing.

### **MATH302 Probability & Statistics (11&12)**

**1 credit (NCAA Approved) Prerequisite: Algebra Linear/Quad. Grade "C" or better**

This course will be the study of how to collect, organize, analyze, and interpret numerical information from data. This course will also examine different types of distributions and their applications. Students will use algebraic formulas, calculators and computer software programs. A considerable amount of time is spent writing and analyzing documents containing mathematical information. This class is recommended for any students planning on majoring in psychology, sociology, criminal justice, nursing or political science.

### **MATH310 Applied Calculus (12) 1 credit**

**(NCAA Approved) Prerequisite: Pre-Calculus**

This course will contain a brief review of pre-calculus and will cover the calculus concepts of limit, differentiation, and applications of the derivative. (Students who plan to major in engineering, mathematics, or science should plan to take the AP calculus course.)

### **MATH900 Advanced Placement Calculus AB**

**(11 & 12) 1 credit (NCAA Approved)**

**Prerequisite: Honors Pre-Calculus**

AB Calculus is a study of change containing two major sections including the differentiation and integration of algebraic, inverse, trigonometric, and exponential

functions and their applications to the sciences, business, and economics. It also contains both limit theory and analysis of curves. This is a rigorous course requires a minimum of 1.5 to 2 hours of homework per night.

### **MATH901 Advanced Placement Calculus BC (12) 1 credit (NCAA Approved)**

**Prerequisite: Advanced Placement Calculus – AB**  
This continuation of Calculus AB which requires the student to complete additional work in analysis of curves, differentiation and integration in functions expressed in parametric, polar, and vector form, differential equations, Euler’s method, improper integrals, logistic curves, sequences, series, Taylor approximations, and Lagrange error. As with Calculus AB, a significant amount of time will be required for work outside the school day.

## **MUSIC**

### **MUS401 Orchestra (9-12) .50 credit**

Meets 1<sup>st</sup> and 2<sup>nd</sup> semesters. Students will rehearse music in preparation for two (2) concerts during the school year: a “holiday” concert in December and a spring concert in May. Students in the orchestra will also be required to perform for the graduation ceremony held at the end of the school year. Students will have opportunities to work with the “*Smartmusic*” computer program to improve their skill levels.

### **Music History & Appreciation**

**Prerequisite: Basic music reading/comprehension 1 credit**

This course is a non-performance course that explores the history and development of Western music genres from their beginnings to the present day through the exploration of composers’ lives and the historical and social contexts of the times. Students will improve their listening skills through various musical selections, develop their understanding of the fundamental elements of music (melody, harmony, rhythm, form, tone color, expression), and survey major periods and styles in Western music. Content is divided between music history and a study of musical elements through musical literature.

### **MUS402 Chorus (9-12) 1.0 credit**

Prerequisite: Ability to match pitch.

Meets 1st and 2nd semesters. Membership in chorus is open to any interested student, with the approval of the director. Students will rehearse music in preparation for two (2) concerts during the school year: a “holiday” concert in December and a spring concert in May. During class the student is provided an opportunity to develop the singing voice and to enhance the knowledge of music as applied to choral singing. There will be an emphasis on music literacy (including sight-singing skills) and continued development of responsible rehearsal behavior. Challenging choral literature from many historical periods and styles will be studied. Emphasis is on developing individual and ensemble musicianship skills. Students will also have opportunities to participate in county, district, regional, and/or state choruses.

### **MUS406 Marching Band (9-12)1 credit**

### **MUS407 Marching Band & Chorus (9-12) 1 credit**

Meets 1<sup>st</sup> semester. This ensemble rehearses for performances at all football games, parades, and exhibition shows. Students will have two (2) options when enrolling in this class. Option 1: Students who desire to participate in the field show, which performs at football games & exhibition shows, must attend band camp in August (*mandatory attendance*), and will be required to attend all football games & exhibition shows. Students choosing this option will also be required to participate in all parades. Option 2: students can opt out of the “field show” band, but will be required to participate in all parades. After the marching season is over, this ensemble will meet as a concert band, and will perform a concert prior to the end of the 1<sup>st</sup> semester.

### **MUS410 Concert Band (9-12) 1 credit**

Meets 2<sup>nd</sup> semester. (Students are placed into this ensemble based on auditions\* held the previous school year). This is a “lower level” ensemble, comprised of students who have not demonstrated the proficiency skills that would be needed to be placed into the “Symphonic Band.” Students will rehearse music geared towards the ability level of the group, but will have opportunities to work on skills and techniques, through the use of the “*Smartmusic*” computer program, that will help improve their performance skills for possible placement into “Symphonic Band” in later years. This ensemble will perform two (2) concerts during the semester.

*\*Students who play a string instrument **and** a wind or percussion instrument will automatically be placed into this ensemble if they desire to continue to perform on both instruments.*

## **SCIENCE**

### **SCI101 Biology 1 credit (NCAA Approved)**

Biology is the study of the living world. Students will examine the ecological relationships and interactions between the many kinds of organisms, become aware of the structure and functions of living things, study the classification systems and characteristics of the six kingdoms, develop a further understanding of cell theory and gain an understanding of genetic principles.

### **SCI102 Honors Biology 1 credit (NCAA Approved)**

This course is designed for the college preparatory students that have a specific interest in the field of science. This academic path's biology curriculum covers the same units as the regular biology curriculum; however the concepts are covered in greater detail with emphasis placed upon integrating the fields of chemistry and mathematics,. (Placement into this course is based on PSSA scores & 8<sup>th</sup> grade Science performance.)

### **BIO105 Biology Keystone Project .50 credit**

This course contains the Project Based Assessment (PBA)\* required to fulfill the Keystone subject area graduation requirement.

\*See PBA under **OTHER** on page 24

### **SCI200 Environmental Science .50 credit (NCAA Approved)**

This course is intended for students with an interest in the environmental health of the earth. Topics include ecology, air quality, water quality, waste management and land use planning.

### **SCI201 Honors Environmental Science .50 credit (NCAA Approved)**

This course is designed for the college preparatory student interested in a science career. This course is intended for students with an interest in the environmental health of the earth. Topics include ecology, air quality, water quality, waste management and land use planning.

### **SCI210 Earth Science .50 credit (NCAA Approved)**

This course is designed for those sophomores who are

not taking chemistry. This science course will help students better understand our earth and its relationship to the rest of the universe. The course work will include a generalized study of the solid, liquid, and gaseous portions of our earth as well as the universe that surrounds it.

### **SCI211 Honors Earth Science .50 credit (NCAA Approved)**

This course is designed for those students who are taking chemistry or interested in a career in Earth Science. This science course will help students better understand our earth and its relationship to the rest of the universe. The course work will include a generalized study of the solid, liquid, and gaseous portions of our earth as well as the universe that surrounds it.

### **SCI220 Biology Applications 1 credit**

**(10<sup>th</sup> grade students who did not pass the Keystone Exam)**

This second year biology course is designed for students who have not yet passed the Keystone Biology Exam. Biology Applications will explore the principles of biology covered in 9<sup>th</sup> grade more in-depth and seek to prepare students to apply the concepts to real-world applications. All students enrolled in Biology Applications will re-take the Keystone Biology exam at the end of the course.

### **SCI221 Chemistry 1 credit (NCAA Approved)**

***Prerequisite: completed Algebra II with a minimum final grade of a "B" average or Algebra I Quadratic with a final grade of an "B".***

Chemistry will review the methods of physical science in the laboratory with an emphasis on measurement, scientific notation, uncertainty and units. Content emphasis will be placed in understanding the composition, properties and reactions of matter, chemical nomenclature, stoichiometry and chemical equations, the periodic table, the atomic structure of matter, energy transformations and bonding. Laboratory experiments are integral components of the course. Applications to environmental issues and everyday life will be included.

### **SCI305 Anatomy and Physiology 1 credit (NCAA Approved) Prerequisites: Biology ("A" or "B") and Chemistry ("A" or "B")**

This course will focus on the structure (anatomy) and function (physiology) of the human body. Our study will begin at the microscopic level with cells, then work our way to tissues, organs, and the organ systems. Human growth and development will also be discussed. This course should be of interest to students

who are interested in a career in the medical or healthcare field.

**SCI351 Physics 1 credit (NCAA Approved)**

*Prerequisite: completion of Chemistry and Algebra II with a minimum of a "C" average*

The fundamental relationships of energy and matter to modern society's technological environment are studied through problem solving and experimentation. Students have the opportunity to discover and explore first hand some of the basic principles that have molded and continue to shape our technological world of today.

**SCI352 Honors Physics 1 credit (NCAA Approved) Prerequisite: completion of Chemistry and Algebra II with a minimum of a "B" average**

The fundamental relationships of energy and matter to modern society's technological environment are studied through problem solving and experimentation. Students have the opportunity to discover and explore first hand some of the basic principles that have molded and continue to shape our technological world of today. This class will require more mathematical modeling than SCI351.

**SCI475 Biological Systems Science 1 credit (NCAA Approved)**

This biology course is a survey of the taxonomic classification system of living organisms. Students will start the course with a review of the scientific method and the characteristics of life. The course will then investigate the role that viruses have on living organisms. Students will also investigate the six kingdoms of life and develop an understanding of their organization and development.

**SCIENCE ELECTIVES**

**SCI310 Space Science .50 credit (NCAA Approved)**

This course is designed for students who are interested in learning more about the solar system, the universe that surrounds it, and man's attempt to explore it. Course work will include research on parts of the solar system and space travel. This course is designed for the general curriculum student interested in a social science career.

**SCI311 Astronomy .50 credit (NCAA Approved)**

This course is designed for the college preparatory student interested in a science career.

This course is aimed at the student in grades 11 and 12

who wishes to encompass a much greater understanding of the universe and all that it contains. In this course, students will be challenged to study in great detail how man observes and measures the heavens that lie above our earth.

**SCI320 Forensics .50 credit (NCAA Approved)**

*Prerequisite: Chemistry or Physics*

This introductory course in Forensics is to give students a very basic understanding of forensic science and how it is used in criminal cases, by using published works and case examples.

**SCI325 Dinosaurs and Other Mass Extinctions .50 credit (NCAA Approved)**

This class will begin with the basics of Historical Geology with a study of fossils, the geologic time scale, and the methods used by geologists to study the Earth's past. The class will then investigate the competing scientific theories on dinosaur extinction, as well as other mass extinctions like those that followed the ice ages and the Permian Period.

**SCI335 Climate & Weather .50 credit (NCAA Approved)**

This course is intended to lead students to a better understanding of the earth's atmosphere, weather, and the climatic conditions it causes. Requirements will include work with weather instruments, forecasting and maps.

**SCI340 Introduction to Geographic Information Systems (GIS) .50 credit**

This course is an introduction to the concepts and uses of GIS. Lecture topics include history of GIS, GIS data structures and sources of data, GIS tools, vendors and software, applications, and resources. Exercises include spatial data display and query, map generation, and simple spatial analysis using ArcGIS software.

**SCI345 Experimental Design (11, 12) .50 credit**

Experimental design is the process of planning a study to meet specified objectives. Planning an experiment properly is very important in order to ensure that the right type of data is available to answer the research questions of interest as clearly and efficiently as possible. Students will study the concepts of experimental design and then determine their own area of interest to study, develop their experimental question, and design the experimental process and ultimately complete their own research. Research

results may be shared at appropriate conferences outside of the school environment.

## **AP SCIENCE COURSES**

### **SCI900 Advanced Placement Biology 1 credit**

**(NCAA Approved)** *Prerequisite: An "A" average in Chemistry ("B" average with teacher approval)*

This weighted course is intended for student majoring in biology related fields in college. This course is equivalent to a beginning college level biology course and like all advanced placement courses will require more time, energy, and effort from the student.

### **SCI901 Advanced Placement Chemistry**

**1 credit (NCAA Approved)** *Prerequisite: An "A" average in Chemistry ("B" average with teacher approval)*

The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year. Students will attain a depth of understanding of fundamentals and a competence in dealing with chemical problems. They will develop their ability to think clearly and express their ideas orally and in writing with clarity and logic. Emphasis is placed on chemical calculations and mathematical formulation of principles through extensive laboratory work. These topics include structure of matter, chemical/molecular bonding, states of matter, solutions, gases, oxidation reduction, acids and bases, equilibria, thermodynamics, kinetics, electrochemistry and qualitative analysis. Summer assignments are required. Students taking this course are encouraged to take the Advanced Placement exam.

### **SCI903 Advanced Placement Physics 1 credit**

**(NCAA Approved)** *Prerequisite: An "A" average in Physics ("B" average with teacher approval)*

This comprehensive physics course will focus mainly on optics, light, D.C. and A.C. electricity, heat & thermo, radiation, magnetism and fluids. This course is designed to prepare students for the A.P. Physics 2 test.

## **SOCIAL STUDIES**

### **SS102 United States History (9) 1 credit**

**(NCAA Approved)**

A **required** course covering U.S. History from 1865 thru present day, including Pennsylvania history and

U.S. /PA geography. Major topics start with Reconstruction, Western Expansion, the Rise of Industrialism, US involvement in foreign affairs from WW I to the present situation in Iraq/Afghanistan. In addition to these topics, the course will cover the cultural, social and political issues in US history. Students will also take some interest inventories, personality assessments, and aptitude tests in this course to help with their career/college/life readiness in later grades.

### **SS105 Honors United States History (9) 1 credit**

The Honors U.S. history course covers U.S. History from 1865 thru present day. Major topics start with Reconstruction, Western Expansion, the Rise of Industrialism, US involvement in foreign affairs from WW I to the present situation in Iraq/Afghanistan. In addition to these topics, the course will cover the cultural, social, and political issues in US history. **This course will emphasize research and critical thinking through requiring the completion of the semester long History Day Project.**

### **SS103 Political Revolutions: Causes and Consequences (9&10).50 credit**

**(NCAA Approved)**

Students will explore the causes and consequences of major revolutions in history and current day. Through the use of primary sources, research and hands-on approach, students will gather a better understanding of political events and the challenges people face to gain freedom.

### **SS201 World History (10) 1 credit**

**(NCAA Approved)**

A **required** course for grade 10 students concerning the culture, geography, and history of Australia, Canada, Central and South America, China, Europe, Japan, the Middle East, South Asia, Southeast Asia, and Sub Saharan Africa. Emphasis is placed upon the common unifying elements found in any culture and shared by all people; regardless of race, religion, socio-economic status, or geographic environment. Projects are required to successfully complete the course.

### **SS300 Government (11) 1 credit**

**(NCAA Approved)**

A required course for juniors, Government is the study of our American governmental, political, and economic systems with units of study dealing with the foundations, branches, and powers of our government and the Pennsylvania state legal system.



**SS301 Psychology (11-12) .50 credit  
(NCAA Approved)**

Psychology helps students to better understand his/her own emotions and social adjustments, as well as to appreciate the motivating forces behind a wide variety of human behavior forms. Special emphasis will be placed on specific areas of interest in psychological research. Students will be required to participate in numerous classroom activities that will explore specific areas of psychological interest and outside readings that will focus on research and trends in the fields of psychology.

Recommendation: Student performing in the A/B level in other Honor level courses.

**SS302 Sociology (11-12) .50 credit  
(NCAA Approved)**

Sociology is the scientific study of human society and social life, and the social causes and consequences of human behavior. People use sociology everyday as they seek questions about their own and other's behavior. Students will seek information and collect data in an attempt to explain social behavior. Students will be required to complete numerous activities and projects that will focus on changes in their school, community, families and society.

**SS303 Problems in Democracy (11-12) .50 credit  
(NCAA Approved)**

The course will focus on the values and beliefs within a society. Students will assess where stereotypes, prejudice and discrimination arise and the role they play on relations among people. Students will examine current events and put them into historical context for a better understanding of the issue and their own beliefs. Students will be given the opportunity to examine evidence, explore differing viewpoints, evaluate information, exercise critical analysis and make independent judgments on topics of immediate interest and concern.

**SS305 Contemporary World Issues (10-12)  
.50 credit (NCAA Approved)**

This course will focus on current world issues. Topics will range from what is happening in the news to issues such as: sweat shops, child soldiers, terrorism, landmines, and refugees around the world. Students will examine what human rights are guaranteed by the

United Nations and why they are not enforced worldwide and how that has contributed to the quality of life for people around the world. There will be an emphasis on genocide in the twentieth and twenty-first centuries. If arrangements can be made there will be a field trip to the US Holocaust Museum in Washington, D.C.

**SS306 Law & Society.50 credit**

A focus on the creation and application of laws in society. By understanding the workings of our court system, as well as how laws are actually carried out, students become more informed and responsible citizens.

**SS400 Economics (12) .50 credit  
(NCAA Approved)**

This required 9 week block course is designed to prepare 12<sup>th</sup> grade students to make important economic decisions in their personal lives and as citizens of a democratic society. This study of economics will enable students to make reasoned judgments about personal finances and the economic policy decisions of the various levels of government. Understanding of how markets work and of the trade-offs involved in trying to accommodate unlimited wants with limited resources is essential for meaningful democratic dialogue. With this background, students have a better chance of achieving the American dream.

**SS900 Advanced Placement United States  
History (11& 12) 1 credit (NCAA Approved)**

*Prerequisite: cumulative average of "B" or better in social studies courses in grades 9 and 10, and the recommendation of their grade 10 social studies and English teacher.*

This class is designed to provide a more detailed examination of the history of the United States as well as to provide an opportunity to develop analytical skills. Students should possess a high interest in history as an area of study. Students should be aware that considerable demands will be made on out-of-class time to meet the requirements of the course. A research project is required of all students as well as a number of supplemental readings. In addition, numerous document-based assignments will be utilized to supplement the textbook. There will be a mid-term and a final examination. Summer reading is required. Students may avail themselves of the opportunity to take the advanced placement exam in the spring of the year.

**SS901 Advanced Placement Comparative**

**Government & Politics (12) 1 credit  
(NCAA Approved)**

AP Comparative Government and Politics is a full credit academic course which introduces students to fundamental concepts used by political scientists to study the processes and outcomes of politics in a variety of country settings. The basic core of the discipline is to study different governments around the world while comparing them to the American system. This class will cover topics and test knowledge to the extent of an *introductory college level class*. College credit hours may be achieved by taking the Advanced Placement Exam in the spring.

**SS903 AP World History (NCAA Approved)**

AP World History is a rigorous, college level course designed to explore human history from 8000 B.C.E. to the present. The course will emphasize and focus on the development of analytical and writing skills necessary for success at the collegiate level. This will be done, at least partly, through the critical evaluation of primary and secondary sources and analysis of historiographical arguments. The course will require significant amounts of reading and assignments completed outside of class time. AP World History is designed for 10<sup>th</sup> graders as a substitute for general World History, but upper classmen can schedule the class as a Social Studies elective, if they choose.

**SS905 Advanced Placement Psychology  
(10-12), 1 credit (NCAA Approved)**

This is an extensive and demanding overview of the field of psychology as well as the dominant theories that have emerged in the areas of development, personality, motivation, biology of behavior, intelligence, memory, consciousness, sensation/perception, and psychological disorders. The course follows the guidelines established by the College Board and requires multiple written assignments throughout the course. Additionally, students will be required to complete a reading and writing assignment over the summer prior to entrance in the course. While students are not required to take the exam, this course is designed with the purpose of preparing students to take the AP Psychology Exam offered in the spring.

**SPECIAL EDUCATION**

Special Education courses will be selected in conjunction with the IEP of the student (based on the learning abilities of the student) with the

recommendation of the Special Education teacher.

**TECHNOLOGY EDUCATION**

**TE100 Engineering and Design Technology  
.50 credit**

This course is divided into four units: Mechanical/Architectural drafting, Mousetrap car design and bridge building and other student created design challenges. These units are taught through the use of classroom software and include both individual and group based hands-on activities.

**TE101 Production Technology .50 credit**

Students will learn the processes and practices involved in woodworking through classroom instruction and lab activities. Students will also be involved in a research and design project that will require them to develop their own product and manufacturing plan

**TE102 Design and Prototyping .50 credit**

Students will learn how to create images in 3d software to help design a product. They will then use materials such as plastic, wood or metal to create a prototype or model of the products they designed.

**TE200 CADD .50 credit**

This introductory course is designed to cover aspects dealing with Mechanical and Architectural drawings. AutoCAD will be used in conjunction with the text to cover; multi-view drawings, Isometrics, plan views and elevations are to be covered.

**TE205 Manufacturing, Materials & Processes  
1 credit**

The student will learn basic woodworking skills and machine safety. They will have the opportunity to work on individual projects assigned by the teacher and student designed projects.

**The students are required to pay for all materials used.**

**TE210 Mechanical Drawing 1 credit**

**Prerequisite: CADD**

Skills previously learned in the introductory CADD course are expanded in this course. Students will complete, but are not limited to the following types of drawings; Sections, inclines, oblique's, working drawings, assembly drawings, and auxiliary views as

well as a variety of detail drawings.

### **TE225 Networking Basics I .50 credit**

This introductory course is designed to provide students with classroom lab experiences relating to networking technologies. Students will use simulators along with real hands-on devices to complete networking related activities. The following topics to be covered throughout the course include; IP addressing, OSI Model, Protocols, Switches and configuring the IOS of 1600 and 2500 series routers and switches.

### **TE235 Architectural Drawing 1 credit**

**Prerequisite:** CADD

Skills previously learned in the introductory CADD course are expanded in this course. Wall Sections, floor plans, foundation plans, stair design, sill and floor construction are a few topics to be discussed and completed in detail using the AutoCAD software. Students will leave this course with a greater understanding dealing with classroom software and they will better understand the elements of basic home construction.

### **TE305 Advanced Manufacturing, Materials and Processes 1 credit**

**Prerequisite:** *Manufacturing Materials and Processes*

The student will learn advanced woodworking skills, furniture design and machine safety. They will have the opportunity to work on individually selected projects and a self-selected school-based service project. **The students are required to pay for all materials used.**

### **TE325 Networking Basics II .50 credit**

**Prerequisite:** *Networking Basics I*

Skills previously learned in the Networking Basics I course are expanded in this course. This course will take a more in depth look at the primary networking devices; routers and switches. Protocols, ACL's and security will be the focus. Additionally, students will review and research hot topics within the field of Internetworking Technology.

## **WELLNESS & FITNESS**

### **WF100 Wellness and Fitness (9) .50 credit**

This course is designed to address critical health-related issues for teenagers. Emphasis will be placed on developing decision-making skills, refusal skills, goal setting and building self-esteem. The wellness aspect of the course will address health-related issues such as

drug, alcohol and tobacco education and human sexuality with a focus on prevention and abstinence. The fitness portion will provide opportunities for students to participate in a variety of individual, dual (partner), team, rhythmic, health related fitness, and lifelong activities.

### **WF200 Wellness and Fitness (10) .50 credit**

This required coeducational course for all grade 10 students includes fitness activities and safety education/driver's education. Classroom driver's education is designed to provide an understanding of passenger vehicles. Topics include maintenance, basic driving maneuvers, the hazards of driving under the influence, procedures to acquire your driver's permit and various aspects of traffic awareness. Course work will include research on cars by consumer reports and buyer's guides. The fitness portion will include a variety of individual, dual (partner), team, rhythmic, aquatic, and health related fitness and lifelong activities.

### **WF300 Wellness and Fitness (11) .50 credit**

This is a required coeducational course for all 11<sup>th</sup> grade students. The wellness portion of the course will focus on prevention of cancer, nutrition, human sexuality, alcohol, tobacco and other drugs. The fitness portion of the class provides students with instruction and participation in individual, dual and lifelong activities.

### **WF400 Wellness and Fitness (12) .50 credit**

This coeducational course for 12<sup>th</sup> grade students includes health, safety, and physical education activities that will provide students with the knowledge and skills needed that will enable them to achieve and maintain a physically active and healthful life. By becoming and remaining physically, mentally, socially and emotionally healthy, students will increase their chances of achieving their highest academic potential. Students will evaluate access, analyze, and examine current health issues relating to nutrition, HIV/AIDS, human sexuality, drugs, alcohol and tobacco use. Students will engage in fitness activities that include a variety of individual, dual (partner), team building, rhythmic, aquatic, adventure, and health related lifelong activities. CPR, First Aid, and Life Guard training are offered to the students with the opportunity to become certified. In addition, students will be provided with resources and references to find and access health and fitness information in keeping current with the ever-changing health world.

## **WELLNESS & FITNESS ELECTIVES**

**WF503 Advanced Health and Fitness  
(11&12) .50 credit**

Students will be challenged physically to get into their best physical shape. A variety of different types of training will be introduced. In the classroom, students will learn about sports nutrition, managing stress, and explore different concepts in Eastern medicine.

**WF504 Sports and Health Issues (11 & 12)  
.50 credit**

The Sports and Health Issues course was created to address important issues in health and sports. We will examine the different health and sports concerns and trends in today's society. Some of the topics in sports that we plan to discuss are cheating in sports, aggression and violence in sports and Title IX. Evaluation of assignments may require active physical involvement, oral discussions and written assignments.

**WF510 Aerobics & Creative Movement  
(11 & 12) .50 Credit**

Students will be physically challenged through dance and exercise movements to help improve their personal fitness. Different types of training that students must complete will include land, water, and technology fitness routines. Students will learn about Aerobic/Zumba routines, dance topics, and be able to explore creative movement concepts.

**WORLD LANGUAGES**

**FRENCH**

**FL200 French I (9-12) 1 credit  
(NCAA Approved)**

The students will learn basic grammar concepts, such as verb conjugation, gender of nouns, adjective agreement, various kinds of articles and basic expressions in French.

**FL201 Honors French II (10-12) 1 credit  
(NCAA Approved)**

*Prerequisite: successful completion of French I*  
Grammar is the main focus in this level. Irregular verbs, idiomatic expressions, the past tense and pronouns, as well as various areas of vocabulary are a major concentration of this course.

**FL202 Honors French III (11&12) 1 credit  
(NCAA Approved)**

*Prerequisite: successful completion of French II*  
Grammar concepts include the subjunctive, imperfect and future tenses. Students will read the novel "Le Petit Prince" later in the class.

**FL203 Honors French IV (Grade12) 1 credit  
(NCAA Approved)**

*Prerequisite: successful completion of French III*  
Grammar concepts include the pluperfect, the past conditional and subjunctive, and various types of pronouns (possessive, demonstrative and interrogative). Students will read the novel "Les Jeux Sont Faits" and will prepare for the AP French Language Exam.

**FL902 Advanced Placement French (12)  
1 credit (NCAA Approved)**

AP French's format and curriculum follows the guidelines established by the College Board. With French being spoken almost entirely in class, students will also be enjoying news broadcasts and other current events. Various literature selections will be included, as well as film productions. Students will examine, analyze and discuss the following themes: Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics. Students will also rigorously prepare for the AP French exam which is suggested to be taken, but not required.

**SPANISH**

All levels of Spanish incorporate the National Standards of Communication, Cultures, Connections, Comparisons and Communities.

**FL100 Spanish I (9-12) 1 credit  
(NCAA Approved)**

Students will learn basic grammar concepts, vocabulary and cultural content through the study of present-tense verb conjugation, the use of nouns and articles, adjective agreement and basic expressions in Spanish.

**FL101 Spanish II (10, 11, 12) 1 credit  
(NCAA Approved)**

*Prerequisite: successful completion of Spanish I*  
Students will learn more sophisticated grammar, vocabulary and cultural content through a more in-depth study of verb conjugation (present and past), the use of irregular verbs, the use of pronouns and the study of various vocabulary themes.

**FL102 Honors Spanish II (10, 11, 12) 1 credit  
(NCAA Approved)**

*Prerequisite: successful completion of Spanish I & recommendation from Spanish I teacher*

This course will cover the curriculum of Spanish II but will be conducted more in Spanish and at a quicker pace.

**FL103 Honors Spanish III (11& 12) 1 credit  
(NCAA Approved)**

*Prerequisite: successful completion of Spanish II*

Students will continue to learn and expand upon grammar, vocabulary and cultural content in a functional context. Students will be expected to perform more accurately in Spanish when reading, writing, listening and speaking.

**FL104 Honors Spanish IV (12) 1 credit  
(NCAA Approved)**

*Prerequisite: successful completion of Spanish III*

Students will study the subjunctive mood. Students will read, comprehend, translate and discuss Spanish

texts in the form of short stories while expanding grammar and vocabulary study.

**OTHER**

**Project Based Assessments (PBAs)**

Students who have not tested Proficient in a Keystone Subject (Algebra I, Biology and/or Literature) by the end of their junior year must complete a PBA for that subject or subjects.

The PBAs are module specific and framed around the Eligible Content so a student may need to complete one or both PBAs per subject. PBAs are designed as a set of activities a student completes in order to demonstrate proficiency in the content area.

The entire PBA is typically framed around a real-life scenario and the students must complete the tasks and activities related to the scenario.

**SPECIAL PROGRAMS**

**WORK EXPERIENCE**

Work experience provides on-the-job experience and training for special needs of secondary students. The philosophy of the program is to develop employability skills that will enable students to obtain entry-level jobs.

**ON-LINE COURSES**

Our school district is utilizing Fueled and CAOLA to offer online courses. This initiative will enable us to offer courses that we might not otherwise be able to offer. We will be offering Advanced Placement, Non-standard world languages, and other courses that will use state-of-the-art technology and online learning methods for our students.

**SASHS GIFTED PROGRAM**

All students identified as a gifted student according to the Pennsylvania Department of Special Education regulations and criteria as administered by the Shippensburg Area School District will be given the opportunity to participate in appropriately designed activities during grades 9 through 12. These activities include mentorships, seminars, college course matriculation, advanced course offerings, Advanced Placement course offerings, and other programs articulated by the Senior High School Gifted Program Coordinator. Information concerning this program is available from the Gifted Program Coordinator, and can be contacted at 530-2730. Written information may be obtained at the SASHS Guidance Office or the Special Education Office at the SASD Administration Building on North Morris Street.

## **CHAMBERSBURG HOSPITAL HEALTHCARE CAREER INSTITUTE**

This course is designed to direct juniors and seniors in the exploration of various healthcare careers in real life experience. The 18 week, 135 HCI course places emphasis on the development of patient care and responsibility, personal strengths and skills, as well as vital soft skills of employment. Students are required to observe in a minimum of 20 departments of the hospital for a period of one to two days, and then spend a concentrated period of time in one or two departments for the remainder of the semester hours. Students will also be required to attend orientation and information classes, as well as meet class requirements.

The entire program takes place on the site of the Chambersburg Hospital or at satellite Summit Healthcare Offices. Students are responsible for their own transportation to the facilities.

### **WORK STUDY /MENTORSHIP PROGRAM**

This program provides students with a meaningful experience based on individual needs and abilities. The goals of the program are to help students to develop abilities, maturity, and responsibility. Opportunities to learn skills in specific areas while completing required courses at the high school may be made available. Various criteria must be met in order for students to be considered for these programs. Student must apply for these programs and parental approval is required.

### **NON-TRADITIONAL PROGRAMS OF STUDY**

The purpose of a non-traditional program of study is to provide individual students, in unusual circumstances, reasonable choices for satisfactory completion of their education. The following options are provided to supplement the regular program of studies and to enhance educational opportunities for students.

### **GUIDELINES & PROCEDURES**

#### **I. College Level Course Option**

The pursuit of post-secondary academics while concurrently attending the high school has become desirable and advantageous to interested SASHS students. This option is designed to meet the academic, vocational, and personal needs of a select group of high school students. It also allows the student to explore his/her potential future college major, and possibly begin college level courses which will allow easier and more flexible full-time college course scheduling at a later date. Many local colleges are beginning to offer reduced tuition rates for concurrently enrolled students, please inquire about reduced tuition before enrolling.

The following are the guidelines and procedures for such college course enrollment:

1. Students identified by State or District guidelines as a gifted student may be able to take college level courses if their schedule permits, with their tuition and educational services and technology fees paid by the District (tuition and fees are not paid for summer school enrollment). Gifted students shall be defined as those students who have been identified through appropriate testing and are in accord with the District and State guidelines for exceptional students. Participation in college level courses shall be listed on the gifted student's Gifted Individual Education Plan (GIEP) written prior to the anticipated school year of participation and signed by the parent.
2. Students not identified as a gifted student may also enroll in college courses in (a) subject area

where they are interested and have completed all available course offerings at the high school. The costs of all tuition and fees will be incurred by student and parent.

3. Due to college admission requirements, only students who have completed grade 10 may participate in this program option. All specific college admission requirements must be met in order to be enrolled. The College Board's SAT must be taken by the student prior to scheduling for a college course and a minimum score of an 1100 (a combined score of the Evidenced Based Reading & Writing (EBRW) and Math sections) must be earned.
4. Enrollment in a college class may not be used in lieu of a high school course except in special circumstances approved by the Principal prior to enrollment. No student may enroll in a college level course if the same course or a similar course is offered at the high school in the regular program and the student can be scheduled for that course at the high school. It is understood that the letter grade earned by the student will be included in the student's high school cumulative grade point average. Each successfully completed college course will earn the student one high school credit. Student participation in such college level courses will be noted on all high school transcripts issued by the school.
5. Students must be enrolled in at least 4 credits at the high school in any year that they are also concurrently enrolling in a college course. Exceptions to this rule may be made by the GIEP team or High School Principal.
6. Any student wishing to apply for enrollment in a college level course must indicate in writing such a desire to the senior high school guidance office by the following dates:  
Semester I - March 1  
Semester II - November 1

**These dates are required in order to complete all necessary supporting documentation and requirements prior to college scheduling deadlines.**

7. A Senior High School Secondary Counselor and/or Senior High Gifted Coordinator will meet individually with the applying student and/or parents to determine eligibility, provide assistance and information, and select the appropriate course and course section which correlates best with the student's high school schedule. It is understood by the student and/or parents that the course and/or course section selected in February may not correlate with the student's high school schedule in the fall, and adjustments and/or possible cancellation of the college course may be necessary.
8. The Senior High School Gifted Coordinator will complete all applications and required supporting documentation and submit such to the college Admissions Office.
9. The college will notify the student and the Senior High Gifted Coordinator of either approval or denial of the application and the course and course section requested.
10. The Senior High School Gifted Coordinator will handle all other procedures for District payment of tuition and fees for interested gifted students. All students should forward billing material directly to the Senior High School Counseling Office.
11. The student follows the college calendar regarding college class attendance, which may necessitate beginning the course prior to the beginning of the high school calendar; it may also

require attendance on days when the high school is not in session.

12. The student and/or parents are responsible for the purchasing of the required textbooks and/or materials for the course; the District is not responsible for these costs.
13. Arranging transportation for all students approved for participation shall be the responsibility of the parent/guardian, transportation may be private, public (Red Raider Transit) or arranged in conjunction with the SASD Transportation department.
14. The student and/or parents are responsible for obtaining and purchasing a required college parking permit, if private transportation is selected.
15. The student understands that they are responsible for any high school course work missed due to leaving a high school class early or entering a high school class late.
16. If a gifted student receives a failing grade for his or her college course, the student will be required to reimburse tuition and fees for this course to the district.
17. Appeals regarding this policy should be directed to the Assistant Superintendent, the Superintendent and the Board of School Directors, in that order.

## **II. Independent Study (Regular Program Option)**

The following procedures shall be followed in applying for an independent study which is to be included in the school's regular program of studies during the regular school day and under the supervision of a faculty member:

1. A conference with the student, appropriate faculty member, the parent/guardian, the guidance counselor, and the Principal shall be held in a timely manner to consider the feasibility and advisability of this program option.
2. A written contract shall be developed to assure that a course of study and appropriate supervision are provided and a determination of credit to be earned is established according to the State and District guidelines. It is understood that the scheduling of this option will be determined by the Principal after reviewing the faculty member's teaching assignment and extra-duty assignments. Faculty members will be providing this instruction on a voluntary basis.
3. Specific procedures to be followed by students requesting this option are available from the guidance office. All appeals to this procedure should be directed to the Assistant Superintendent, the Superintendent, and the Board of School Directors, in that order.

## **III. Early College Admission**

Students applying for early admission to college or other post-high school institutions on a full time basis shall meet certain criteria established by the Board of School Directors. The following procedures shall be followed in applying for early admission to post-secondary schooling or training on a full time basis:

1. A conference shall be held with the students, the parent/guardian, the guidance counselor and the Principal to determine the feasibility and the advisability of this alternative, prior to the senior



year.

2. The parent/guardian must then submit a written request indicating the unusual circumstances and their approval of this alternative and submit it in a timely manner. Accompanying this request should be a letter of acceptance from the post-secondary institution.
3. Written recommendations from teachers and a guidance counselor shall accompany this application.
4. Approval of the Principal, the Superintendent and the Board of School Directors shall be required before the student is admitted to the program. A diploma will be awarded at graduation exercises held for the high school class of which the student would be a member. The issuance of a diploma is contingent upon the satisfactory completion of the equivalent high school courses and credits necessary for graduation as determined by the Principal. The student will be excluded from the high school class ranking system. Appeals to this procedure should be directed to the Assistant Superintendent, the Superintendent and the Board of School Directors, in that order.



### **Career and Technology Emphasis**

The Career and Technology Center will enable students interested in the various occupational and professional areas to spend a semester each at Shippensburg Area Senior High School and at the Franklin County Career and Technology Center in Chambersburg. Transportation to the Career and Technology Center is provided.

### **Career Technical Curriculum at SASHS**

All students first learn about and the Franklin County Career and Technology Center while at the Shippensburg Area Middle School. Students learn more about the Career and Technology Center in 9<sup>th</sup> grade and can choose to tour the school before deciding if they wish to apply. To be eligible for admission to the Franklin County Career and Technology Center as a grade 10 student, the student must have successfully completed grade 9. Academic achievement, discipline, and attendance patterns are reviewed to determine whether the prospective student has the ability, aptitude, and

interest needed to master the skills and knowledge to be successful in a vocational program. Because of the quota system or the designated allotment of available spaces in each program and the popularity of some of the programs, all students applying cannot be accepted. The FCCTC utilizes an online application for admissions. The online application can be found at: [www.franklinctc.com](http://www.franklinctc.com).

Initial consideration will be given to students who apply by mid-December for the following school year. Appropriate consideration will be given to students who are members of special populations and those students who have individualized education plans (IEP's).

Students, who have gained at least a 2.00 Cumulative Grade Point academic average in their high school career, experience the greatest success at the Career Technology Center.

Those students who are accepted will attend the Franklin County Career and Technology Center for

their technical training for one semester of each year and the high school for their academic education during the other semester of each year. Seniors attending the Career Technology Center may be selected to go on a cooperative work experience during their semester at the Career Center. This cooperative work experience is contingent upon the approval of the student's shop teacher, parent, prospective Co-op provider, home school and Career Tech Co-op Coordinator. Students who are not accepted will be provided with information that identifies vocational courses that are offered at the high school. Students who are not granted admission to the Franklin County Career and Technology Center are encouraged to take related courses here at the high school through our computer & information technology, agriculture, technology education or family & consumer science department, and/or adult options at the Career Center.

### **College in the High School**

The Franklin County Career and Technology Center (FCCTC) along with the Harrisburg Area Community College (HACC) and The Pennsylvania College of Technology (PCT) have a cooperative agreement that allows career center students to earn up to 16 college credits while enrolled in their select career and technical programs. Instruction is delivered by FCCTC instructors serving as HACC and/or PCT-approved adjunct faculty. The courses follow the college requirements regarding course outlines, textbooks and academic standards. College in the high school technology credits may be applied toward specific associate degree, certificate or diploma programs at HACC and/or PCT.

Students who plan on attending other colleges will need to verify transferability of credits with that institution. Students interested in college in the high school should contact a SASHS or FCCTC

counselor for more details.

### **PROGRAM CHOICES**

For more a complete explanation of the course offerings at FCCTC, visit: [www.franklinctc.com](http://www.franklinctc.com)

#### **Construction Academy**

Building Construction Trades  
Carpentry  
Electrical Occupations  
Heating, Ventilation & AC

#### **Health Services Academy**

Allied Health  
Dental Assisting  
Medical Assisting  
Veterinary Assisting

#### **Sales and Service Academy**

Cosmetology  
Culinary Arts  
Graphic Communications  
Landscaping & Horticulture  
Marketing/Web Design

#### **STEM/Manufacturing Academy**

Mechatronics  
Electronics  
Engineering Technology  
Information Systems Technology  
Computer Integrated Manufacturing  
Welding

#### **Transportation Academy**

Agricultural Mechanics  
Automotive Collision & Repair  
Automotive Technology  
Diesel Mechanics

### **Franklin County Career and Technology Center (CareerTech)**



**All Students** - at *SASHS* in both college prep and general classes may enroll in courses at CareerTech. At CareerTech, students receive **technical training, employability skills, and academic proficiency**, while

also having the opportunity to earn **Free and Reduced College Credits**. This opportunity will build a firm foundation for a **career** or **pursuing post-secondary education**.

**Scheduling** - Each year, students spend one semester at CareerTech studying their chosen program and the other semester at **SASHS** taking academic subjects to fulfill graduation requirements. Students can apply online at [www.FranklinCTC.com](http://www.FranklinCTC.com) during semester 1 of their 9<sup>th</sup>, 10<sup>th</sup>, or 11<sup>th</sup> grade year. The following programs are available for students entering grades 10, 11, and 12:

Academy	Available Programs
Construction	Building Construction Trades, Carpentry, Electrical Occupations, Heating Ventilation and Air Conditioning
Health Sciences	Allied Health, Dental Assisting, Medical Assisting, Veterinary Assisting
Sales and Service	Cosmetology, Culinary Arts, Graphic Communications, Landscaping & Horticulture, Marketing/Web Design
STEM/ Manufacturing	Mechatronics, Electronics, Engineering Technology, Information Systems Technology, Computer Integrated Manufacturing, Welding
Transportation	Agricultural Mechanics, Automotive Collision & Repair, Automotive Technology, Diesel Mechanics.

**Benefits** – Students experience industry based learning that may lead to certifications. The courses allow students to gain high level skills to pursue a high wage occupation. During the senior year, the cooperative education program allows select students to work in a paid position to extend and reinforce classroom learning to the real-world environments. In addition, students have the option to participate in student career organizations, as well as earn college credits while in their program.

**College Credit Options** – Students may take advantage of one of the ways to earn college credits:

Dual Enrollment/College in the High School Programs – This program allows qualified students to earn credits from the college and the high school at the same time. These college level classes are offered during the school day and are taught by the CareerTech program instructors. College credits count towards a degree program at the college earned or transferred to other colleges. The following programs offer 1 – 14 credits:

College	Reduced Cost	Program in which you can enroll for dual credits
Hagerstown Community College	\$175/credit	Information Systems Technology
Harrisburg Community College	\$50/Credit	Allied Health, Electrical Occupations, Graphic Communications, Heating Ventilation and Air Conditioning, Marketing/Web Design, Mechatronics
Pennsylvania College of Technology	<b>FREE</b> to all students!	Allied Health, Automotive Technology, Carpentry, Computer Integrated Manufacturing (pending), Information Systems Technology, Landscaping & Horticulture, Medical Assisting, Welding

Statewide Articulation Agreements, SOAR - *Students Occupationally and Academically Ready*. SOAR articulates skills and tasks gained at the high school level to course credit earned in a postsecondary college degree, diploma, or certificate program. Qualifying students receive **FREE** credit from the college upon admission. Most CareerTech programs offer this program with 43 Pennsylvania colleges.

Direct Articulation Agreements – There are 14 programs at CareerTech that have articulation agreements with the following institutions: Academy for Media Productions, Hagerstown Community College, Harrisburg Area Community College, McCann School of Business & Technology, Pittsburgh Technical College, and University of Northwestern Ohio. Students

articulate skills and tasks gained at CareerTech to course credit earned in a postsecondary college degree, diploma or certificate program. Qualifying students receive **FREE** credit from the college upon admission.

NOCTI College Credit Recommendation – By meeting the 70% benchmark on the NOCTI assessment, senior students will receive a college credit recommendation report for **FREE** college credit waiver consideration. Most CareerTech programs are involved with 30 colleges participating in PA and over 1500 nationwide.

**Learn More** - To view the CareerTech course catalog, watch program videos, learn about certifications, and find out more about college credit opportunities, visit [www.FranklinCTC.com](http://www.FranklinCTC.com).



### **NCAA Freshman Eligibility Standards**

If you want to play sports at an NCAA Division I or II school, start by registering with the NCAA Eligibility Center at [NCAA Eligibility Center \(eligibility center\)](http://NCAA Eligibility Center (eligibility center)) during your sophomore year. The NCAA supports both the student and your high school by providing resources to help you meet the initial-eligibility standards to participate in college sports. If you want to play Division III sports or you aren't sure where you want to compete, start by creating a Profile Page at [eligibilitycenter.org](http://eligibilitycenter.org)

Approved core courses are noted in the program of studies by the “**NCAA Approved**” listing. Please note, it is ultimately the responsibility of the student to make sure they are registered with the NCAA and have met all requirements for eligibility.

### **Core Courses**

NCAA schools require college-bound student athletes to build a foundation of high school courses to prepare them for the college classroom. Not all high school classes count as NCAA core courses. Only classes in English, math (Algebra I or higher), natural or physical science, social science, foreign language, comparative religion or philosophy may be approved as NCAA core courses. Please see the following list for Shippensburg Area Senior High School's approved NCAA list of core courses.

\*\*The NCAA has very specific guidelines with regard to on-line courses. Please do not assume they will be approved courses.

### **Grade-Point Average**

The NCAA Eligibility Center calculates your grade-point average (GPA) based on only the grades you earn in NCAA-approved core courses.

**The Following are Shippensburg Area Senior High School's approved NCAA Core Courses:**

**(Additional Courses)**

AP French  
AP Latin  
French I  
French II Honors  
French III Honors  
French IV Honors  
Honors Latin II  
Latin I  
Latin III Honors  
Latin IV Honors  
Spanish I  
Spanish II  
Spanish II Honors  
Spanish III Honors  
Spanish IV Honors

**(English)**

Academic American Literature & Composition  
Academic British Literature  
Academic Contemporary Literature  
Academic Cultural Literature  
Academic Mastering Literature 10  
Academic Mastering Literature 9  
Academic World Literature  
Debate  
English 11/AP Language and Composition  
English 12/AP Literature and Composition  
Honors Mastering Literature 10  
Honors Mastering Literature 9  
Myth & Folktale  
Poetry  
Political Fiction

**NCAA Approved Courses**

Any student athlete interested in playing a sport at a Division I or Division II school must be registered with the Eligibility Center. The NCAA encourages on-line registration at [eligibility center](#). Please see your counselor if you have any questions.

**(Math)**

Algebra II  
Honors Algebra II  
Algebra III/Trigonometry  
Algebra I Linear (.50 cr)  
Algebra I/Quadratics (.50 cr)  
AP Calculus AB  
AP Calculus BC  
Applied Calculus  
Applied Statistics  
Geometry

**(Natural/Physical Science)**

Earth Science  
Environmental Science  
Anatomy & Physiology  
Biology  
Astronomy  
Biological Systems Science  
Biology/ AP  
Chemistry  
Chemistry AP  
Climate and Weather Studies  
Dinosaurs and Other Mass Extinctions  
Forensics  
Honors Biology  
Honors Earth Science  
Honors Environmental Science  
Honors Physics  
Meteorology  
Physics  
Physics AP  
Space Science

**(Social Studies)**

Academic Government  
Academic US History  
Academic World History  
AP Comparative Government & Politics  
AP European History  
AP Psychology  
AP US History  
AP World History  
Contemporary World Issues  
Economics  
Government  
Honors US History  
Law and Society  
Political Revolutions  
Problems in Democracy  
Psychology  
Sociology  
US History  
World History

## **NCAA ACADEMIC STANDARDS**

### **DIVISION I**

**To play sports at a Division I school, you must graduate high school and meet ALL the following requirements:**

1. Complete 16 NCAA core courses:
  - 4 years of English
  - 3 years of math (Algebra 1 or higher)
  - 2 years of natural or physical science (including one year of lab science if your high school offers it)
  - 2 years of social science
  - 1 additional year of English, math, natural/physical science, social science, foreign language, comparative religion or philosophy
  - 4 years of additional courses (any area above, foreign language, or comparative religion/philosophy)
2. Complete 10 core courses, including seven in English, math or natural/physical science, before the start of your seventh semester. Once you begin your seventh semester, you may not repeat or replace any of those 10 courses for GPA improvement.
3. Earn at least a 2.3 GPA in your core courses
4. Earn an SAT combined score or ACT sum score that matches your core-course GPA on the Division I sliding scale for students enrolling on or after August 1, 2016.

### **DIVISION III**

Division III schools provide an integrated environment focusing on academic success while offering a competitive athletics environment. While Division III schools do not offer athletics scholarships, 75 percent of Division III student-athletes receive some form of merit or need-based financial aid.

If you are planning to attend a Division III school, you do not need to register with the NCAA Eligibility Center. Division III schools set their own admissions and eligibility standards. You can visit [NCAA.ORG/d3](http://NCAA.ORG/d3) or contact the Division III school you are planning to attend.

### **DIVISION II**

**To play sports at a Division II school, you must graduate high school and meet ALL the following requirements:**

***Before August 1, 2018:***

1. Complete 16 high school core courses.
2. Earn at least a 2.000 GPA in your high school core courses.
3. Earn a combined SAT score of 820 or an ACT sum score of 68.

***After August 1, 2018:***

1. Complete 16 high school core courses.
2. Earn at least a 2.200 GPA in your high school core courses.
3. Earn the SAT or ACT score that matches your core-course GPA (minimum 2.200) on the Division II competition sliding scale.

#### ***Core Courses for Division II:***

To play sports at a Division II school, you must complete these NCAA core courses:

- 3 years of English
- 2 years of math (Algebra I or higher)
- 2 years of natural or physical science (including one year of lab science if your high school offers it)
- 2 years of social science
- 4 additional years of English, math, natural or physical science, social science, foreign language, comparative religion of philosophy
- 3 years additional English, mathematics, or natural/physical science.