

Shippensburg Area Senior High School



2020-2021 Program of Studies

Board Approved: January 27, 2020

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 Mrs. Tina Clever, 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.

The Pennsylvania Department of Education has encouraged all school districts to emphasize career awareness and career planning from kindergarten through 12th grade. All students at SASHS will now be participating in career exploration and career study using the SMARTfutures database and activities. These resources will allow students to make better course selections based upon their career goals and aspirations.

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, we continue to offer online course, we have cooperative education for students to learn career skills on the job site while still in high school, and we have ShipStart as an option for college-level classes for students at Shippensburg University while still in high school. 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

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MIDDLE SCHOOL: 530-2750

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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/Computer Information System	.50	N/A
Family & Consumer Science	.50	.50

*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.

**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 reportcard.

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 courses that are difficult. 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.) Students will be expected to determine if they are taking the Advanced Placement Exam by September per College Board's new requirements.

A.P. English 12 (Literature & Composition)
A.P. English 11 (Language & Composition)
A. P. Economics
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. Environmental
A.P. Psychology
A.P. French
A.P. World History

ADVANCED PLACEMENT – VIRTUAL

A.P. Spanish
A.P. U.S. Government

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

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. The use of technology in all courses as a teaching and learning tool will be used to enhance the learning process and increase opportunities for students; it is not a replacement for teachers.
7. In the event a required subject is failed, that subject must be repeated the following term or in summer school, if available.
8. All student schedules will be created to eliminate study halls.
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 sends out paper report cards at the end of each marking period. Grades are updated weekly and alerts will come out to parents/guardians via Skyward 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 Skyward for each course the student is taking
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. Students in their senior year will be permitted to select cooperative learning, job shadowing and internships to better assess their career choice. Students will be required to be on track with completing graduation requirements. Students will be permitted to select up to 4 credits of cooperative learning with administrative approval. Placements must be linked to the SMART futures and career plans students have developed.
14. PDE requires each 11th grader to complete eight (8) articles of career readiness preparation utilized by the SMARTfutures database.
15. 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 10th grade or 11th 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 based on scholarship, leadership, character, and service.
- c. Leadership criteria include consideration of offices a student has held in school and community organizations and 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 based on 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 *National 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)

Performing, Creative or Fine
(Art 100 or 110 OR Music 401, 402,
406 407)

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

WELLNESS & FITNESS (2 total credits)

Wellness & Fitness 9
Wellness & Fitness 10
Wellness & Fitness 11
Wellness & Fitness 12

MATHEMATICS (4 total credits)

Must Complete Algebra II and Geometry

SCIENCE (4 total credits)

Biology
Environmental Science
2.5 additional Science credits

SOCIAL STUDIES (4 total credits)

Government
World History or AP World History
United States History or AP U.S.
History
Economics or AP Comparative Government
0.5 Additional Social Studies Credit (If AP
Government is not selected)

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. The balance of the agricultural curriculum has been taught upon this base course.

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. Basic Welding Skills will also be covered.

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. Companion Animals that will be discussed are: dogs, cats, rats, mice, guinea pigs, and rabbits. 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, songbirds, 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 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 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 (12)

(Work Release) 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.

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 and acrylic. 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.

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 digital photography graphic design. *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 21st 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 design, propose, execute, and assess their own digitally based art projects.

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, hand building 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*

In this advanced course, students will gain experience in creating complex, self-directed graphic design 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. Students are expected to

have had previous experience with Adobe Photoshop and Illustrator.

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.

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 artwork 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.

ART900 Advanced Placement Studio Art (12)

The AP Studio Art course is for students that are interested in a rigorous and focused study in art. Students can choose between AP 2-D Art and Design, AP 3-D Art and Design, or AP Drawing to develop a quality portfolio that demonstrates a mastery of concept and execution. Students will work towards creating a body of work that demonstrates a sustained investigation, as well as selected works. Upon completing the course, students may choose to submit their completed AP Portfolio to the College Board for credit consideration. This step is optional and subject to a fee payable to the College Board. Outside classwork is expected and students will create and maintain a website and blog throughout the 18-week course.

Advanced Placement Art History (11-12) **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 art making, meanings of art, and the cultural contexts of art. It is structured around an in-depth study of art from around the globe, from the prehistoric to the present. The workload and quality expectations are those of an introductory college level course. Summer reading and assignments are required.

Students will engage in research projects, in-class presentations, and in-depth discussion throughout the duration of the course, as well as extensive in and out of class reading and writing. 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.

ART250 Creative Connections: Personalized Learning Through Art Making (10-12) 1.0 credit

Ever wonder where good ideas come from? Do you like to figure things out? Are you a hands-on/minds-on learner? This course explores the way we think; the way we create; and the way we communicate about our world through art.

In this personalized educational experience, learners will develop their ability to problem-solve, generate innovative ideas, research multiple disciplines, and create original works of art.

Drawing upon research into contemporary artists' awareness of how multiple disciplines impact their work -- and exploring how art spans many different media, techniques, and styles -- learners will be challenged to choose the media that will best articulate their conceptual vision.

With a focus on how we learn; the creative process; studio habits of mind; and artistic behaviors, learners will engage in the development and execution of their ideas. Workshops and instruction will be provided based on the learners' individual interests, supporting each student's journey towards their completed artwork.

In this 18-week course, learners will complete no less than 4 independent projects and one collaborative community-based project.

ENG 511 Horror in Literature and Film (11-12) **1 credit**

Prerequisite: Successful completion of Academic or Honors English 9 with a B or higher.

In this cross-curricular course, students will study horror through literature and film, examining its development from folktale to a recognized genre. Students will study scriptwriting and filmmaking basics, including film production through several hands-on collaborative film projects. Students will also study short stories, poems, and novels within the Horror genre beginning with the development of the 18th Century Pre-Romantic Era Gothic novel to today's modern contemporary Horror. Students in this course should be adept in Academic level literacy skills as well as have a sincere willingness to work

in many performance tasks with others. As a culminating project, students will work collaboratively to create a student-scripted, student-produced short horror film. Students who successfully complete this semester-long course will receive .5 English elective and .5 Art elective credits.

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.

BUS280 Introduction to Programming (10-12) .50 credit

Do you want to learn how to read and write code? This course is designed to develop both an appreciation and application for programming through web page design. Students will be exposed to various programming languages, including HTML and JavaScript, and create class led and self-guided projects. This course is for the student who would like to understand how web pages are constructed and the interactivity components behind particular website elements.

BUS281 Computer Programming II .50 credit *prerequisite: Introduction to Programming*

This course is for the student who has taken Introduction to Programming and wants to further develop and expand upon coding. In this class we will create more in depth projects using HTML and JavaScript, in addition to learning relevant new code for the changing world.

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.

BUS505 Cooperative Education (12, select 11) 50 credit-2 credits

Cooperative Education (Co-op) is offered to seniors and select juniors as a Diversified Occupations (DO) program. Students will gain marketable job skills

through part-time (paid or volunteer) employment in business and/or industry. Student's job placement must align with their future career and/or college goals. Career awareness and preparation, career acquisition, and career retention and advancement will be explored. Students will also be exposed to workplace safety guidelines and OSHA standards.

Drivers Education

DRI200 Drivers Education (10-12) .50 credit

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.

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 26.

ENGLISH 9

ENG120 Mastering Literature (9) 1 credit

The instructional rigor of this course is designed to prepare students for Mastering Literature 10

Mastering Literature 9 is a multi-genre survey course with a concentration on composition skills. Throughout the course, several major works will be studied, including but not limited to: plays, novels, short stories, and poetry selections. Because this course is a prerequisite for all required literature courses that follow, the selected works will reflect the concentrations of those courses (i.e. World, American, British/European, and Contemporary Literature). The composition elements of the course will include formal and informal writing for the purpose of exposition, persuasion, and narration, with an emphasis on style, tone, focus, organization, and grammatical conventions.

ENG130 Academic Mastering Literature (9)

1 credit (NCAA Approved)

The instructional rigor of this course is designed to prepare students for Honors Mastering Literature 10

Academic Mastering Literature 9 is a multi-genre survey course with a concentration on composition skills. Throughout the course, several major works will be studied, including but not limited to: plays, novels, short stories, and poetry selections. Because this course is a prerequisite for all required literature courses that follow, the selected works will reflect the concentrations of those courses (i.e. World, American, British/European, and Contemporary Literature). The composition elements of the course will include formal and informal writing for the purpose of exposition, persuasion, and narration, with an emphasis on style, tone, focus, organization, and grammatical conventions.

ENG140 Honors Mastering Literature (9)

1 credit (NCAA Approved)

The instructional rigor of this course is designed to prepare students for Honors Mastering Literature 10.

Honors Mastering Literature 9 is a multi-genre survey course with a concentration on composition skills. Throughout the course, several major works will be studied, including but not limited to: plays, novels, short stories, and poetry selections. Because this course is a prerequisite for all required literature courses that follow, the selected works will reflect the concentrations of those courses (i.e. World, American, British/European, and Contemporary Literature). The composition elements of the course will include formal and informal writing for the purpose of exposition, persuasion, and narration, with an emphasis on style, tone, focus, organization, and

grammatical conventions.

ENGLISH 10

ENG220 Mastering Literature (10) 1 credit

The instructional rigor of this course is designed to prepare students for the Keystone Literature Exam and American Literature and Mastering Composition.

Mastering Literature 10 is a multi-genre survey course with a concentration on literary analysis. Throughout the course, several major works will be studied, including but not limited to literary nonfiction, plays, novels, short stories, poetry selections. This course is a prerequisite for all required literature courses that follow. Writing pieces, presentations, and creative projects make up assessments. A research paper focusing on research, organizational, and writing skills is included.

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

The instructional rigor of this course is designed to prepare students for the Keystone Literature Exam and American Literature and Mastering Composition.

Mastering Literature 10 is a multi-genre survey course with a concentration on literary analysis. Throughout the course, several major works will be studied, including but not limited to literary nonfiction, plays, novels, short stories, poetry selections. This course is a prerequisite for all required literature courses that follow. Writing pieces, presentations, and creative projects make up assessments. A research paper focusing on research, organizational, and writing skills is included.

ENG240 Honors Mastering Literature (10) 1 credit (NCAA Approved)

Prerequisite: Grade of "A" in ENG140 or written recommendation from previous English teacher and an "A" average in ENG130

The instructional rigor of this course is designed to prepare students for the Keystone Literature Exam and Advanced Placement language and Composition.

Honors Mastering Literature 10 is a multi-genre survey course with a concentration on composition skills. Throughout the course, several major works will be studied, including but not limited to: plays, novels, short stories, and poetry selections.

ENGLISH 11

ENG320 American Literature & Composition (11) 1 credit

American Literature and Composition is designed to assist students in the development of critical language skills. Students will enhance their reading, writing, speaking, and listening skills by interactively analyzing fictional and nonfictional selections spanning the American experience. Students will examine the social, cultural, and political influences on a variety of literary selections to include, but not be limited to, essays (narrative, expository, and argumentative), presentations, short stories, novels, poems, and plays, thus gaining an understanding of and appreciation for the unique elements of American Literature. In addition to their critical analysis of literary selections, students will engage in extensive research into a variety of topics, culminating in the composition of a research paper (7-10 pages), or research papers that demonstrate their ability to synthesize the work of others with their original argumentative and/or analytical expressions (including career/post-secondary research).

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

Academic American Literature and Composition is designed to assist students in the development of critical language skills. Students will enhance their reading, writing, speaking, and listening skills by interactively analyzing fictional and nonfictional selections spanning the American experience. Students will examine the social, cultural, and political influences on a variety of literary selections to include, but not be limited to, essays, speeches, short stories, novels, poems, and plays, thus gaining an understanding of and appreciation for the unique elements of American Literature. In addition to their critical analysis of literary selections, students will engage in extensive research into a variety of topics, culminating in the composition of a research paper, or research papers that demonstrate their ability to synthesize the work of others with their original argumentative and/or analytical expressions.

ENG330 Academic American Literature & Composition (11) 1 credit (NCAA Approved)

Academic American Literature and Composition is designed to assist students in the development of critical language skills. Students will enhance their reading, writing, speaking, and listening skills by interactively analyzing fictional and nonfictional selections spanning the American experience. Students will examine the

social, cultural, and political influences on a variety of literary selections to include, but not be limited to, essays (narrative, expository, and argumentative), presentations, short stories, novels, poems, and plays, thus gaining an understanding of and appreciation for the unique elements of American Literature. In addition to their critical analysis of literary selections, students will engage in extensive research into a variety of topics, culminating in the composition of a research paper (8-10 pages), or research papers that demonstrate their ability to synthesize the work of others with their original argumentative and/or analytical expressions (including career/post-secondary research).

**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 Language and Composition offers a challenging college level class for highly capable high school students with a strong interest in reading and writing, with an emphasis on rhetorical analysis. College credits will be based on the AP test score and the cooperating institution. The course analyzes written, spoken, and visual rhetoric, with a correspondingly intensive writing curriculum that requires students to utilize the rhetorical devices and techniques discovered during their exploration of literary nonfiction. Students must complete an intensive summer assignment that is necessary for the academic rigor that will begin on the first day of class. Summer 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 English.-This may be fulfilled by taking either AP English (Lit & Comp), Academic British Literature, Academic Cultural Literature or Contemporary Literature.*

**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 British literature and significant writers from the fall of the Roman Empire to the twenty-first century. It will include reading and responding to poetry, drama, essays, journals, short stories, and novels. This class may include a properly documented independent research project, formal speeches, compositions, and literature-based writing projects.

**ENG408b Academic British Literature (12)
.50 credit (NCAA Approved) - BLENDED/Hybrid**

This course is an in-depth college bound survey of British literature and significant writers from the fall of the Roman Empire to the twenty-first century. It will include reading and responding to poetry, drama, essays, journals, short stories, and novels. This class may include a properly documented independent research project, formal speeches, compositions, and literature-based writing projects.

**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.

**ENG410b Academic Cultural Literature (12)
.50 credit (NCAA Approved)-BLENDED/Hybrid**

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.

ENG901b Advanced Placement English (12) (Literature & Composition) 1 credit

(NCAA Approved) – BLENDED/Hybrid

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 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 and illustrate an original children’s book to be read to a child in an elementary school.

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. Students in this course will also write, report, film, and edit the SASHS school news You Tube channel (Channel 74 news) twice a week.

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 (NCAA Approved)**

Students will study a variety of literary nonfiction and fiction that are directly related to the events leading up to and continuing through the World War II period. A study of the complex historic, social, and cultural conditions surrounding the various theatres of war will provide the historical background necessary to understand the works of historical fiction and literary nonfiction that will be the focus of this curriculum. This historical study will involve student-conducted research, supplementary reading materials, documentaries, and World War II genre movies.

**ENG510 College Writing (11-12) .50 credit
(NCAA Approved)**

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. Students in this course will also write, report, film, and edit the SASHS school news You Tube channel (Channel 74 news) twice a week.

**ENG 511 Horror in Literature and Film (11-12)
1 credit (NCAA Approved)**

Prerequisite: Successful completion of Academic or Honors English 9 with a B or higher.

In this cross-curricular course, students will study horror through literature and film, examining its development from folktale to a recognized genre. Students will study scriptwriting and filmmaking

basics, including film production through several hands-on collaborative film projects. Students will also study short stories, poems, and novels within the Horror genre beginning with the development of the 18th Century Pre-Romantic Era Gothic novel to today's modern contemporary Horror. Students in this course should be adept in Academic level literacy skills as well as have a sincere willingness to work in many performance tasks with others. As a culminating project, students will work collaboratively to create a student-scripted, student-produced short horror film. Students who successfully complete this semester-long course will receive .5 English elective and .5 Art elective credits.

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.

Library Science

MED100 Media literacy (9) .50 credit
Can substitute tech ed or business credit

This course is designed to encourage students to inquire, include, collaborate, curate, explore and engage; foundations to the American Association of School Librarians. Students in this course will develop an informed and critical understanding of the nature of an expanding mass media, exploring media as information sources, as entertainment, and as an industry. Students will examine, interpret, and evaluate the messages contained within media, and its social, cultural and political implications. This course exposes students to the base complexities of media literacy, develop critical thinking skills, and provides the methods of analysis necessary to interpret media content as well as methods of critical writing appropriate to media analysis.

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 (NCAA Approved) .5 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 (NCAA Approved) .5 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 26.

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.

**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 II

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 to major 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) 1 credit

Meets 1st and 2nd semesters. Students may enroll in either semester of both. First semester orchestra prepares for a holiday concert. Second semester orchestra prepares for a spring concert usually scheduled in May. Attendance is mandatory. Second semester students in grade 9-11 are also required to perform at the graduation ceremony. During class, the student is provided opportunities to develop higher instrument playing skills and to enhance knowledge of music as applied to an orchestral setting.

MUS501 Music History & Appreciation (10-12) 1 credit

Prerequisite: Basic Music Reading/ Comprehension

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 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 first semester. This ensemble rehearse for performances at all football games, parades, and occasional exhibition shows. Students who desire to participate must attend band camp, typically scheduled in late July or early August. *Attendance at band camp is mandatory.* Attendance policies regarding performances are written in the marching band grade policy. When the football/marching season concludes, the band will continue in a "concert band" model with a concert usually scheduled near the end of the 1st semester. Attendance at this concert is also mandatory. Marching band students will also be required to mark in two Memorial Day parades held in May.

MUS410 Concert Band (9-12) 1 credit

Meets second semester. Students will rehearse music geared toward the ability level of the group. During the class, the student is provided opportunities to develop higher instrumental playing skills and to enhance knowledge of music as applied to a concert band setting. One concert is scheduled near the end of the school year, usually in May. Attendance at this concert is mandatory.

MUS305 Music Theory (9-12) .50 credit

This is an "entry level" course geared towards the beginner student who wishes to learn about the theory and writing practices of music. This course is comprised of basic music study with emphasis on learning about notes, note values, rhythms, intervals, scales, and chords. Other related topics are also covered. Some aspects of the course will utilize listening that directly relates to the units being discussed.

MUS405 Advanced Music Theory (10-12) .50 credit

This course, basically, picks up where Music Theory MUS305 leaves off, and is recommended for students who may be pursuing a music degree or who desire to delve into more knowledge about music. More intricate and detailed topics will include, but not limited to, chord inversions, non-traditional scales and modes, form and structure, and identifying and labeling practices.

MUS250: Intro to Musical Theater: (9-12) .50 credit

This course will explore two different aspects of the Broadway Musical: the history of the Broadway Musical, and the study of the production of Broadway musicals. The study of the history of musical theater will include units on Minstrel Shows, Music Halls, Musical Reviews, Operettas, Extravaganzas, Vaudeville, Book Musicals, Concept Musicals, Rock Musicals, Mega Musicals, Jukebox Musicals, Spoof Musicals, and Revivals. To

become acquainted with each type, students will view videos, listen to recordings, read scripts, and watch live performances. The study of the production of musical theater will include units on Acting, Singing, Directing, Producing, Writing, Scenic Design, Costume Design, Publicity, and the Financing of musicals. Students will have the opportunity to perform dialogue and songs from shows, to write and direct musical scenes, to generate publicity materials and show budgets, and to design and produce sets and costumes.

MUS251 Music in Film (9-12) .50 credit

This course will explore the purpose and history of music in association with the motion picture industry. The material will include early Black & White “silent” films through films presented in theatres today that use original scores and classical masterpieces to evoke emotion. Students will score and produce music for a film of their creation, learn about the use of music in character identification, synchronizing techniques, and the dubbing process for sound effects.

MUS 252: Intro to Piano (9-12) .50 credit

This course is designed for beginners or those with very limited piano background, who wish to learn the concepts and fundamentals needed to play the piano. Students will work individually and in a group setting, moving at their own pace. They will use both acoustic and digital pianos. Students will learn to read and perform written music, accompanying songs using a variety of chords and accompaniment patterns, and improvise and compose their own piano pieces and songs. Students will learn to play piano pieces written in a wide variety of musical styles, including popular, folk, and classical music. It is the ultimate goal of this course that each student develops the confidence and skills to practice and perform independently, so that once the course is over, he or she can continue to play for his or her own personal pleasure.

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 & 8th 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 26.

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)

Earth Science will review basic matter concepts that will assist students when they take Biology. The main focus of the course is on Geology. Students will study rocks and minerals; learning how they form, how they are classified, and how society uses them. In addition, students will learn about the Theory of Plate Tectonics and the features that are created on the surface by plate movement (mountains, volcanoes and earthquakes). Many lab activities will be used to demonstrate student knowledge of the concepts learned in the course.

SCI211 Honors Earth Science .50 credit (NCAA Approved)

Honors Earth Science will review basic matter concepts that will assist students when they take Biology. The main focus of the course is on Geology. Students will study rocks and minerals; learning how they form, how they are classified, and how society uses them. In addition, students will learn about the Theory of Plate Tectonics

and the features that are created on the surface by plate movement (mountains, volcanoes and earthquakes). Lab activities and two major projects will be used to demonstrate student knowledge of concepts learned in the course.

SCI220 Biology Applications .50 credit

(11th 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 9th 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.

SCI220 Chemistry in the Physical World .50 credit (NCAA Approved)

Chemistry in the Physical World will focus on the study of matter, starting with atoms and ending with exploring how chemical reactions occur and are quantified. Students will learn basic laboratory skills, an understanding of the usefulness of the periodic table, and how chemical reactions apply to everyday life. Many lab activities will be used to demonstrate student knowledge of the concepts learned in 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 (NCAA Approved)

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.

SCI400 Honors Organic Chemistry 1 credit

Prerequisites: AP Chemistry or AP Biology

(NCAA Approved)

Organic Chemistry is intended for students interested in pursuing careers in the fields of science, medicine, and/or engineering. This course serves as an introduction for the study of the chemistry of carbon compounds by applying principles rooted in general chemistry. Topics of study include: bonding in organic molecules, organic nomenclature, functional groups, organic synthesis, laboratory applications, and bio-organic chemistry.

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.

SCI906 Advanced Placement Biology 2 credits (NCAA Approved)

Prerequisite: An "A" average in Chemistry ("B" average with teacher approval) This course would meet for entire block for the entire year.

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.

SCI905 Advanced Placement Chemistry 2 credits (NCAA Approved)

Prerequisite: An “A” average in Chemistry (“B” average with teacher approval) This course would meet for entire block for the entire year.

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.

SCI902 Advanced Placement Environmental Science 1 credit (NCAA Approved)

The goal of the AP Environmental Science course will cover the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them.

SOCIAL STUDIES

The Social Studies Department will be experiencing a two-year transition as we move United States History to be an 11th grade level course for all students. For the 2019-2020 and 2020-2021 both 11th graders and 9th graders will be using the Government Curriculum. In

2021-2022, the course sequence will be available for students: 9th grade- Government, 10th grade- World History, 11th grade- U.S. History and 12th grade- Economics. Advanced Placement students will have the option for their core social studies classes: 10th grade- AP World History, 11th grade- US History, and 12th Grade – AP Government & Politics

SS100 Government (9) 1 credit (NCAA Approved)

A required course for freshmen, 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.

SS101 Honors Government (9) 1 credit (NCAA Approved)

A required course for freshmen, 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.

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.

11th graders taking AP US History do not need to take this course.

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 (10-12) .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 sweatshops, child soldiers, terrorism, landmines, and refugees around the world. Students will examine what human rights are guaranteed by the United Nations, 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 (NCAA
Approved)**

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 12th 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.

**SS902 Advanced Placement Economics (10-12)
1 credit (NCAA Approved)**

Here at SASHS students are taking advanced math classes from freshman year on. AP Economics is a year-long college level economics course that encompasses both AP Microeconomics and AP Macroeconomics. Students who complete this course will be prepared to take the AP Microeconomics and AP Macroeconomics exams that are administered by the College Board in May. In preparation for this examination, this course will be divided into two parts approximately split along semester lines: the first semester will be devoted to the study of Microeconomics in six units of three to four chapters each, while the second semester will be devoted to the study of Macroeconomics split into five units of two to three chapters each. There will be a cumulative test at the conclusion of every unit and both a Micro and Macro Review Examination.

AP Microeconomics introduces students to the cost-benefit analysis that underlies how economic decisions are made by individuals, firms, and organizational structures. Supply and Demand analysis is developed to demonstrate how market prices are determined, how those prices determine an economy's allocation of goods and services, how factors of production are allocated, and how goods and services are distributed throughout the economy. The focus of this section of the course is the actions of consumers and producers as they interact in the resource and product markets. We will evaluate decision-making by all actors, including the role of government intervention in this model.

AP Macroeconomics emphasizes economic principles as applied to the economy as a whole and includes an analysis of basic economic concepts revolving around scarcity, measurement of economic performance, national income and price determination, the financial sector, unemployment, and stabilization policies, economic growth and productivity, and international trade and finance.

Macroeconomics and Microeconomics will emphasize

critical thinking skills, the use and interpretation of complex graphic representations, and writing skills.

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 would 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 (11&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 1200 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 10th 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 both an exploration and an overview of different kinds of engineering. The projects and types of engineering are determined by the instructor. The units are based around the major types of engineering and focus on project-based learning and design challenges. These units are taught using classroom software and include both individual and group based hands-on activities. Students will be introduced to basic CADD and machine safety throughout this course.

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 production project where students will design and create a project. Students will be responsible to pay for some parts of this project. Costs will vary based on student design.

TE102 Design and Prototyping .50 credit

Students will learn how to use design thinking 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. Students will also compete in small

challenges meant to test their quick thinking and design skills.

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, terms, 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 & 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.

TE230 The Science of Robotics

This course will be piloted for the 2020-21 school year, between the Tech Ed. Department. Students learn and apply the science concepts through the mechanical engineering, electrical engineering, and computer programming required to build a robot that meets design challenges. *Could be counted as tech. ed. credit.*

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 health-related topics for teenagers.

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 11th 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 12th 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

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 .50 credit

Prerequisite: (11 & 12 grade with an average grade of B or above in their gym classes)

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.

WF511 Advanced Team Sports

Prerequisite: 10th grade wellness and fitness with an "A" average.

Students will learn skills and game strategies for several different team sports from Ultimate Frisbee, Volleyball, Basketball, Speedball, flag football, and soccer. The students will learn the team sports at a more in-depth level going over offensive and defensive strategies. Students will be challenged with decision-making and on their athletic abilities and good sportsmanship.

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 (12) 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 (10-12) 1 credit (NCAA Approved)

Prerequisite: successful completion of Spanish I
Students will learn grammar that is more sophisticated, 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 (10-12) 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.

BLENDED/HYBRID

Blended/Hybrid courses will be offered to students who are self-motivated and have excellent time management skills to complete work independently. Students in blended/hybrid courses will have flexibility in when and where their learning occurs after a transitional period. These courses will be scheduled during block 1 or 4 so that students can arrive late or leave early if they are not dependent on district transportation.

Students dependent on district transportation will remain at school in the classroom.

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 decided during a meeting with the Gifted Coordinator prior to the semester, in which the course will be taken.
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 four 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 - October 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 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.
9. 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.
10. 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.
11. 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, through a student's GIEP.
12. The student and/or parents are responsible for obtaining and purchasing a required college parking permit, if private transportation is selected.
13. 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.
14. 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.
15. Appeals regarding this policy should be directed to the Director of Curriculum and Instruction, 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 that 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 Director of Curriculum and Instruction, 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 Director of Curriculum and Instruction, the Superintendent and the Board of School Directors, in that order.



CareerTech

Franklin County Career & Technology Center · Explore. Discover. Succeed.

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 9th 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 or technical program. Because of the quota system or the designated allotment of available spaces in each program and the popularity of some of the programs, not all students applying can be accepted. The FCCTC utilizes an online application for admissions. The online application can be found at www.franklinctc.com.

Initial consideration will be given to students who apply by mid-January 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 14 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 to attend 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.

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 during semester 1 of their 9th, 10th, or 11th 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	FREE 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.

NCAA SASHS Approved Core Courses	NCAA SASHS Approved Core Courses
<i>English Approved Courses</i>	<i>Math Approved Courses</i>
Academic American Literature & Composition	Algebra II
Academic British Literature	Honors Algebra II
Academic Contemporary Literature	Algebra III/Trigonometry
Academic Cultural Literature	Algebra I Linear (worth .50 Credit)
Academic Mastering Literature 10	Algebra I/Quadratics (worth .50 Credit)
Academic Mastering Literature 9	AP Calculus AB
Academic World Literature	AP Calculus BC
College Writing	Applied Calculus
Debate	Applied Statistics
English 11/AP Language and Composition	Geometry
English 12/AP Literature and Composition	Honors Geometry
Honors Mastering Literature 10	Honors Algebra III/Trigonometry
Honors Mastering Literature 9	Pre-Calculus
Horror in Literature and Film	Honors Pre-Calculus
Myth & Folktale	Probability & Statistics
Poetry	
Political Fiction	<i>Science Approved Courses</i>
Science Fiction & Fantasy	Earth Science
World War II Literature	Environmental Science
	Experimental Design
<i>Social Studies Approved Courses</i>	Anatomy & Physiology
Academic Government	AP Environmental Science
Academic US History	Biology
Academic World History	Astronomy
AP Comparative Government & Politics	Biological Systems Science
AP European History	AP Biology
AP Economics	Chemistry
AP Macroeconomics	AP Chemistry
AP Microeconomics	Honors Organic Chemistry (not yet approved)
AP Psychology	Chemistry in the Physical World
AP US History	Climate and Weather Studies
AP World History	Dinosaurs and Other Mass Extinctions
Contemporary World Issues	Forensics
Economics	Honors Biology
Government	Honors Earth Science
Honors Government	Honors Environmental Science
Honors US History	Meteorology
Law and Society	Honors Physics
Political Revolutions	Physics
Problems in Democracy	AP Physics
Psychology	Space Science
Sociology	
US History	<i>World Language Approved Courses</i>
World History	AP French, French I, Honors French II, III & IV
	AP Spanish, Spanish I, II
	Honors Spanish II, III & IV
	AP Latin

ONE OPPORTUNITY. LIMITLESS POSSIBILITIES.

If you want to play sports at an NCAA Division I or II school, start by registering for a Certification Account with the NCAA Eligibility Center at eligibilitycenter.org. 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.

ACADEMIC REQUIREMENTS

To play sports at a Division I or II school, you must graduate from high school, complete 16 NCAA-approved core courses, earn a minimum GPA and earn an ACT or SAT score that matches your core-course GPA.

CORE COURSES

Only courses that appear on your high school's list of NCAA core courses will count toward the 16 core-course requirement; visit eligibilitycenter.org/courselist for a full list of your high school's approved core courses. Complete 16 core courses in the following areas:

DIVISION I

Complete 10 NCAA core courses, including seven in English, math or natural/physical science, before your seventh semester.

ENGLISH	MATH (Algebra I or higher)	NATURAL/ PHYSICAL SCIENCE (Including one year of lab, if offered)	ADDITIONAL (English, math or natural/physical science)	SOCIAL SCIENCE	ADDITIONAL COURSES (Any area listed to the left, foreign language or comparative religion/philosophy)
4 years	3 years	2 years	1 year	2 years	4 years

DIVISION II

ENGLISH	MATH (Algebra I or higher)	NATURAL/ PHYSICAL SCIENCE (Including one year of lab, if offered)	ADDITIONAL (English, math or natural/physical science)	SOCIAL SCIENCE	ADDITIONAL COURSES (Any area listed to the left, foreign language or comparative religion/philosophy)
3 years	2 years	2 years	3 years	2 years	4 years

GRADE-POINT AVERAGE

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

- DI requires a minimum 2.3 GPA.
- DII requires a minimum 2.2 GPA.

SLIDING SCALE

Divisions I and II use sliding scales to match test scores and GPAs to determine eligibility. The sliding scale balances your test score with your GPA. If you have a low test score, you need a higher GPA to be eligible. Find more information about test scores at ncaa.org/test-scores.

TEST SCORES

You may take the SAT or ACT an unlimited number of times before you enroll full time in college. Every time you register for the SAT or ACT, use the NCAA Eligibility Center code 9999 to send your scores directly to us from the testing agency. We accept official scores only from the ACT or SAT, and won't use scores shown on your high school transcript. If you take either test more than once, the best subscore from different tests are used to give you the best possible score.



HIGH SCHOOL TIMELINE

9TH GRADE



- *Start planning now!* Take the right courses and earn the best grades possible.

- Find your high school's list of NCAA-approved core courses at eligibilitycenter.org/courselist.
- Sign up for a free Profile Page at eligibilitycenter.org for information on NCAA requirements.

10TH GRADE

REGISTER



- If you fall behind academically, ask your counselor for help finding approved courses you can take.

- Register for a Profile Page or Certification Account with the NCAA Eligibility Center at eligibilitycenter.org.
- Monitor your Eligibility Center account for next steps.
- At the end of the year, ask your counselor at each high school or program you attended to upload your official transcript to your NCAA Eligibility Center account.

11TH GRADE



- Check with your counselor to make sure you are on track to complete the required number of NCAA-approved courses and graduate on time with your class.

- Take the ACT or SAT and submit your scores to the NCAA Eligibility Center using code 9999.
- Ensure your sports participation information is correct in your Eligibility Center account.
- At the end of the year, ask your counselor at each high school or program you attended to upload your official transcript to your NCAA Eligibility Center account.

12TH GRADE



- Complete your final NCAA-approved core courses as you prepare for graduation.

- Take the ACT or SAT again, if necessary, and submit your scores to the NCAA Eligibility Center using code 9999.
- Request your final amateurism certification beginning April 1 (fall enrollees) or Oct. 1 (winter/spring enrollees) in your NCAA Eligibility Center account at eligibilitycenter.org.
- After you graduate, ask your counselor to upload your final official transcript with proof of graduation to your NCAA Eligibility Center account.
- *Reminder:* Only students on an NCAA Division I or II school's institutional request list will receive a certification.

How to plan your high school courses to meet the 16 core-course requirement:

$$4 \times 4 = 16$$

9TH GRADE

- (1) English
- (1) Math
- (1) Science
- (1) Social Science and/or additional

4 CORE COURSES

10TH GRADE

- (1) English
- (1) Math
- (1) Science
- (1) Social Science and/or additional

4 CORE COURSES

11TH GRADE

- (1) English
- (1) Math
- (1) Science
- (1) Social Science and/or additional

4 CORE COURSES

12TH GRADE

- (1) English
- (1) Math
- (1) Science
- (1) Social Science and/or additional

4 CORE COURSES

For more information: ncaa.org/playcollegesports | eligibilitycenter.org

Search Frequently Asked Questions: ncaa.org/studentfaq

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