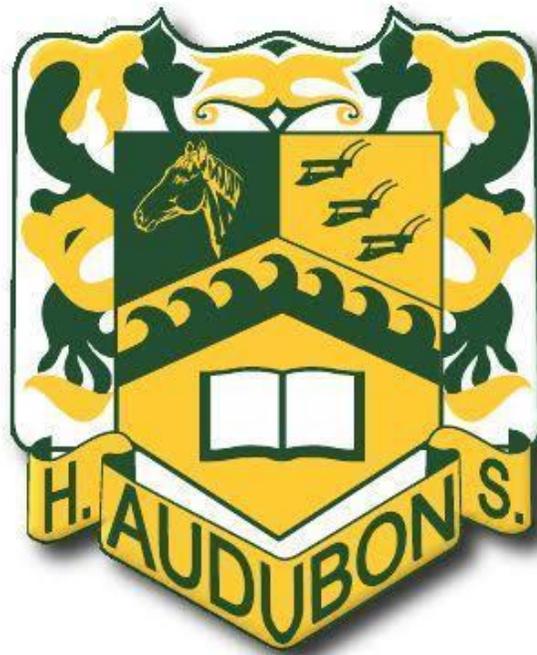


# **Audubon Junior – Senior High School**

## **Program of Studies**

**2023-2024**



Rev: 2-27-2023

## MISSION STATEMENT

*In partnership with our students, families, and communities, the Audubon Public Schools will educate all students by providing motivating and challenging learning experiences embedded in technology that prepare them to achieve the Common Core and New Jersey Student Learning Standards at all grade levels, in a safe setting of mutual respect, in order to develop ethical, productive citizens who will contribute to the local and global community.*

## **Audubon Junior Senior High School Administration**

Jeff Lebb..... Principal  
Frank Corley..... Vice-Principal, Grades 10-12  
Eric Miller..... Assistant Principal, Grades 7-9  
Anthony Carbone..... Assistant Principal of Athletics  
John McMichael..... Assistant Principal of School Counseling

### **Board of Education**

Ammie Davis, President  
Allison Cox, Vice President  
James Blumenstein  
Tara Sullivan-Butrica  
Loretta Cassidy  
Alison Lipsky  
Joseph Miller  
Andrea Robinson  
Nancy Schiavo  
Stephen Wilson

### **District Administration**

Andrew P. Davis, Ed.D. .... Superintendent of Schools  
Deborah J. Roncace, C.P.A..... Business Administrator/Board Secretary  
Noelle Bisinger..... Supervisor of Special Education Services  
Shamus Burke..... Director of Curriculum & Instruction

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## INTRODUCTION

As you make use of this guide you are participating in one of the most important activities of your school career and maybe even your life: the selection of your courses for next year. Why is this activity so important? Simply speaking, your choices can impact your academic career here at AHS as well as choices you'll ultimately have related to your continuing education and eventual career path.

Our primary goal at Audubon High School is to help you make a smooth transition from high school to the real world you will face upon graduation. More than anything, all of us, including members of the Staff, Faculty, and Administration, want you to experience great success in everything you do throughout your life. With this in mind, we are continually reviewing our course offerings and revising them to meet the changing needs of you, our students.

Additionally, the counseling staff is available to meet with you and your parents, whose support is absolutely essential to your success, to discuss and provide information pertaining to the course selection process. You are encouraged to make use of them as a resource.

Counselors for the 2023-2024 academic year are:

Grades 7 and 8	Mrs. Devon Schwab
Grades 9-12 (A-F)	Ms. Emily Warren
Grades 9-12 (G-M)	Mrs. Wendy VanFossen
Grades 9-12 (N-Z)	Mr. Michael Tomasetti
Mental Health Assistance Counselor (all grades)	Mrs. Erin Kabo

Please feel free to contact any of the counselors or myself to assist you in this important process.

Good luck!

Sincerely,

John McMichael  
Assistant Principal of School Counseling

## Graduation Requirements

All courses at Audubon High School are designed to address knowledge and skills set forth in the New Jersey Learning Standards and the Common Core State Standards, either through direct instruction or through infusion. Students who follow the educational program prescribed by their teachers and counselors will meet all course requirements for graduation upon successful completion of the courses and be prepared to meet success on state-mandated assessments.

Course Requirement	Number of Credits
English/Language Arts	20
Mathematics (Algebra I, Geometry, Additional Year that builds on Algebra I & Geometry)	15
Science (including Biology and Chemistry/Environmental Science/Physics)	15
World History	5
United States History	10
Physical Education/Health	3.75/year of enrollment
Visual and Performing Arts*	5
21 <sup>st</sup> Century Life and Careers**	5
World Language	5
Economics	2.5
Electives	22.5
<b>Total Credits to Graduate</b>	<b>120</b>

\*The Visual and Performing Arts can be fulfilled through courses in the Music or Art Departments.

\*\*The 21<sup>st</sup> Century Life and Careers requirement can be fulfilled through courses in the Business Department, Consumer Science Department, or the Technology Education Department.

### Additional Considerations:

#### 1. Attendance

All students must meet the minimum attendance requirement to be awarded credit for any and all courses successfully completed.

#### 2. Assessment

Students in New Jersey have been required to demonstrate proficiency on standardized assessments since the 1985-1986 school year. Please go here to find the most up-to-date testing requirement for graduation:

<https://www.nj.gov/education/assessment/requirements/>.

## Course Placement

Dear Parent/Guardian,

The staff of Audubon Public Schools is dedicated to helping families guide each student along the most appropriate educational path. For math and English/Language Arts, this guidance includes the placement of students into the appropriate level classes as they enter Audubon Jr./Sr. High School.

We use multiple measures to determine the best placement of each student into the appropriate course. By using multiple measures for placement, we are making decisions based on a more complete understanding of each child. **To be considered for the honors program, students will need to demonstrate appropriate achievement/growth on 3 of the 4 measures below:**

1. Grade of A or Teacher Recommendation (in the corresponding subject)
2. NJSLA Achievement Level 4 or 5
3. IXL Achievement (at or above grade level)
4. IXL Growth Over Time (improvement from throughout the year)

Every day the staff is dedicated to providing challenging and enlightening instruction, and every day the students work hard and think deeply. Please encourage your child to continue this effort in her or his classes.

Throughout the year, please also encourage your child to focus and try his or her best on NJSLA and IXL Growth. This information will help us (including you) make the most informed decisions about your child's placement.

Should you have any questions, please contact the Office of Curriculum and Instruction at 856-547-7695 ext. 4191.

Sincerely,



Shamus Burke  
Director of Curriculum and Instruction  
Audubon Public Schools

## Course Selection Process

The master schedule and staffing are determined by student course selections. Only courses with sufficient enrollment will be scheduled. Therefore, it is essential that students and parents/guardians carefully and deliberately choose students' courses. Students are expected to honor their commitments to their course selections. Course selection meetings are conducted by counselors according to grade level between the end of January and March 15<sup>th</sup>, beginning with rising seniors. Student course selections will be available on Genesis for parents/guardians to review in Genesis Parent accounts. Parents/guardians should contact counselors prior to **June 15<sup>th</sup>** if they would like to make any changes.

If students do not meet course prerequisites, Course Placement Appeal forms must be completed on or before **March 31st**. Appeals will be reviewed by the appropriate department supervisor and decisions will be shared with the student's counselor by **June 1<sup>st</sup>**.

If students wish to change their course requests from June 15<sup>th</sup> through the first day of school, counselors will make every effort to make the change. However, please keep in mind that staffing needs and the master schedule will have already been developed based on the course selection prior to June 15<sup>th</sup>. Therefore, we cannot guarantee students will receive the newly requested elective or course level (for core content coursework).

If students wish to change their course level after the first day of the school year or drop an elective course, students will be able to do so without penalty until September 15<sup>th</sup>. After September 15<sup>th</sup>, students will receive a WP (withdraw passing) or WF (withdraw failing) on their transcript. The last day for any level changes or to drop an elective course will be October 31<sup>st</sup>. For second semester courses, students must drop the course within the first 10 days of the 3<sup>rd</sup> marking period to do so without penalty. Students can drop a second semester elective until February 15<sup>th</sup> but will receive a WP (withdraw passing) or WF (withdraw failing) on their transcript.

Seniors are given priority in the schedule. This means that any senior who needs a course in order to graduate will be given preference over underclassmen. For this reason, underclassmen are strongly encouraged to choose no less than 3 alternatives for their electives.

## **Sample Four Year Programs**

Listed below are *sample* four-year programs for students. These are only *sample* schedules. A student can choose both College Prep and Honors level sequence courses. In addition, a student can re-evaluate and move between levels. The schedules below should help the student plan his/her four-year program at Audubon High School.

### **Minimum Graduation Requirements**

<u>9<sup>th</sup> Grade</u>	<u>10<sup>th</sup> Grade</u>	<u>11<sup>th</sup> Grade</u>	<u>12<sup>th</sup> Grade</u>
English I	English II	English III	English IV
Algebra I	Geometry	Algebra II	Math Selection
Environmental Science	Inquiry Science	Inquiry Science	Science Selection
US History I	US II	World History	PE/Health 12
PE/Health 9	PE/Health 10	PE/Health 11	Elective
World Language	Elective	Elective	Elective
Elective – VPA or 21 <sup>st</sup> C	Elective – VPA or 21 <sup>st</sup> C	Elective - Economics	Elective

### **College Preparatory Level**

<u>9<sup>th</sup> Grade</u>	<u>10<sup>th</sup> Grade</u>	<u>11<sup>th</sup> Grade</u>	<u>12<sup>th</sup> Grade</u>
English I	English II	English III	English IV
Algebra I	Geometry	Algebra II	Math Selection
Environmental Science	Biology	Chemistry	Science Selection
US History I	US II	World History	PE/Health 12
PE/Health 9	PE/Health 10	PE/Health 11	Elective
World Language	World Language	Elective	Elective
Elective – VPA or 21 <sup>st</sup> C	Elective– VPA or 21 <sup>st</sup> C	Elective - Economics	Elective

### **Honors/AP Level**

<u>9<sup>th</sup> Grade</u>	<u>10<sup>th</sup> Grade</u>	<u>11<sup>th</sup> Grade</u>	<u>12<sup>th</sup> Grade</u>
Hon English I	Hon English II	Hon/AP English III	Hon/AP English IV
Hon Geometry	Hon Algebra II	Hon Pre-Calculus	AP Calculus
Hon Biology	Hon Chemistry	Hon/AP Science	Hon/AP Science
Hon US History I	Hon US II/AP US	Hon World History	History Selection
PE/Health 9	PE/Health 10	PE/Health 11	PE/Health 12
World Language	World Language	World Language	World Language
Elective – VPA or 21 <sup>st</sup> C	Elective VPA or 21 <sup>st</sup> C	Elective - Economics	Elective

*Courses that lack enrollment may not be offered.*

*Course selection cannot be guaranteed except for English and PE/Health.*

### **HONORS COURSES**

In order to receive Honors weight for an Honors course, students must earn an 83 or better in the course.

## HIGH SCHOOL PLUS PROGRAM

Students will be able to take courses here at AHS and receive college credit at Camden County College through the High School Plus program. Students may receive credit for the following courses:

<u>Audubon HS Course for Dual Credit</u>	<u>CCC Course Name</u>
Anatomy (H)	Human Biology
AP Chemistry	Chemistry I - Science
Introduction to Forensics (H)	Introduction to Forensic Science
AP Biology	Biology I - Science
AP US History	US History II
Spanish III	Elementary Spanish I
Spanish IV (H)	Elementary Spanish II
Spanish V (H)	Intermediate Spanish I
French III	Elementary French I
French IV (H)	Elementary French II
AP English Language & Composition	English Composition I
AP English Literature & Composition	Introduction to Literature
World History (H)	World Civilization II

Upon graduation, students may choose to come to Camden County College, or they can transfer their credits to a four-year college. It should be understood that no college, including Camden County College, can absolutely guarantee the transferability of its credits to another institution. Ultimately, transferability is up to each institution from which the student is seeking credit and any questions should be directed to that institution. More information can be found by going here: <https://www.camdencc.edu/highschool-plus-audubon/>.

## ADVANCED PLACEMENT

The AP Program offers college-level courses and exams that students can take in high school. Students who select these courses are strongly encouraged to take the Advanced Placement test.

The following courses have been approved by the College Board as Advanced Placement courses and are offered by the Audubon School District:

- |                      |  |
|----------------------|--|
| -AP Biology          | -AP Chemistry                          |
| -AP French Language  | -AP United States History              |
| -AP Spanish Language | -AP English Language and Composition   |
| -AP Calculus AB      | -AP English Literature and Composition |

In addition, students are able to take other AP courses through Virtual High School (see page 11).

The registration and payment deadline for AP exams is set by the College Board every year. It is typically in mid-November. The cost to take an exam is approximately \$100.

Students who pass an AP Exam may earn college credit for the high school course. In order to receive AP weight in their GPA for an AP course, students must earn an 83 or better in the course **and** take the corresponding AP exam in May. Students who earn an 83 or better but do **not** take the AP exam will receive *honors* weight for this course. More information can be found by going here: <https://ap.collegeboard.org/>.



Imagine classrooms without walls, where students are able to attend their classes 24 hours a day, seven days a week. Imagine students working cooperatively online with others from a wide variety of ethnicities, backgrounds, and geographical locations.

What you are beginning to imagine is the reality of Virtual High School, a non-profit organization that offers content-rich, credit-bearing high school courses to students across the country and around the world.

Virtual High School offers a variety of academic options including:

- Full-year and semester-length courses for grades 9 - 12
- Advanced Placement (AP) courses

**VHS offers courses at all grade levels. However, due to the rigorous nature of VHS courses, it is recommended that only high school students who have earned a GPA of 90 or higher consider taking a VHS course.** Please see your counselor if you are interested in Virtual High School. For more information, please see <https://www.vhslearning.org/>.

### **NJSIAA Eligibility**

To be eligible for athletic activity in the fall season, students must have earned 30 credits by the end of the summer or September 1<sup>st</sup> for the preceding school year. All first-time 9<sup>th</sup> grade students are eligible to participate in fall sports. To be eligible for the spring season, students must have earned 15 credits in the first semester (by January 31<sup>st</sup>).

### **NCAA ATHLETIC ELIGIBILITY REQUIREMENTS**

To study and compete at an NCAA Division I or Division II college/university, student-athletes must earn 16 NCAA-approved core-course credits, earn a corresponding test score that matches their core-course GPA, and submit their final transcript with proof of graduation to the [NCAA Eligibility Center](#).

For Division I, ten of the 16 core course requirements must be completed by the end of the junior year of high school.

If a student-athlete graduates with a 2.0-2.299 core-course GPA and below a 990 on the SAT (or below a 76 on the ACT), they can still receive a scholarship, participate in practice, but CANNOT participate in game action their freshman year. This is known as an “academic redshirt.”

See the NCAA websites for more information.

<https://www.ncaa.org/playcollegesports>

<http://www.eligibilitycenter.org>

## **OPTION II**

### **Alternative Learning Experiences**

New Jersey Administrative Code 6A: 8-5.1(a)ii permits students to apply for high school credits for alternative learning experiences. Students seeking credits under this provision must submit an Option II application form to Mr. McMichael in the Counseling Office no later than June 30<sup>th</sup> of the preceding academic year or at least sixty (60) days before the onset of the alternative learning experience if it is a summer program. Examples of alternative learning experiences include, but are not limited to, one or more of the following: interdisciplinary or theme-based programs, community learning projects, internships, student exchange programs, online courses, independent studies, and Early Graduation Option as well as college courses. **Approved courses will appear on a student's transcript but will not factor into the GPA.** Interested students should see their counselor for an application.

#### **Early Graduation**

Students may apply to pursue an accelerated program of study that will meet all course requirements prescribed by the State of New Jersey and Board of Education. For additional information on how this may be completed, families should schedule a conference with the students' counselor before the completion of Grade 10.

#### **Community Learning Projects, Internships, Student Exchange Programs, Independent Studies**

Students must complete an application for review no later than June 30<sup>th</sup> or if it is a summer program, 60 days prior to the onset of an activity. Students are expected to complete and submit a log of activities bi-weekly signed by their instructor to receive the appropriate credit. These learning experiences will be issued a pass/fail grade and appear on the transcript.

#### **Online Courses and College Courses**

Students must complete an application for review no later than June 30<sup>th</sup> or if it is a summer course, 30 days prior to the onset of the course. Upon completion of the course, students must submit an official transcript to the Student Personnel Services office in order for the course to appear on their Audubon High School transcript.

#### **Physical Education**

All students are required to participate in three marking periods of physical education per school year. Students who participate in an approved physical activity under the direction of a qualified professional for a minimum of 33 hours and 45 minutes per marking period may apply to receive credit for Physical Education via Option II. Students must complete an application for review no later than June 30<sup>th</sup>; summer activities do not qualify for PE Option II credit. Students are required to complete and submit a log of activities signed by their instructor bi-weekly in order to receive appropriate PE credits for each marking period. This is the student's responsibility; failure to submit the bi-weekly log will result in the student being re-enrolled in the appropriate PE course at Audubon High School. Should a student using Option II to complete PE credit become injured, the student must notify their counselor who will arrange Sportfolios with the PE teachers to complete PE credit until they are cleared to participate again. Students will not be able to earn a passing grade without completing the Sportfolios. Based on the activity log and any necessary Sportfolios, a pass/fail grade will be issued. Health classes cannot be completed via Option II.

# 21<sup>st</sup> Century Life And Careers



## BUSINESS EDUCATION DEPARTMENT

With the use of technology becoming more prevalent in education and business today, Business Education has an important contribution to make in the development of technology and economic literacy of all students. Data entry skills are imperative to the success of students in an extremely competitive and technological environment. The Business Department is committed to providing courses to enable all students to develop skills that are needed for college, employment, and personal use.

### Personal Finance – Grades 9, 10, 11, 12

*Prerequisite: None*

*5 Credits/Full Year*

The purpose of this class is to help the student make choices in life that will support their lifestyle. Life brings many challenges, especially when it comes to money. The student will research options and make choices based on what best fits their needs, wants, and budget. Some of the topics that may be covered include financial planning, career, keeping records, saving, investing, auto insurance, credit cards, banking, buying and maintaining a car, buying food, clothing and an apartment or home, and understanding a paycheck. The last marking period will include an online project where the student must manage a sim's financial and personal life. *Can also fulfill the 21<sup>st</sup> Century Life and Careers or Economics requirement for graduation.*

### Business Economics/Sports and Entertainment Marketing– Grades 9, 10, 11, 12

*Prerequisite: None*

*5 Credits/Full Year*

Students who take this course will experience one semester of Business Economics (which will fulfill the state graduation requirement for a semester long course in Economics) and one semester of Sports and Entertainment Marketing. This course will teach you marketing skills through the use of Virtual Business. You will own and operate your own store and compete against others for a successful business. You will own and operate your own stadium where you market a football franchise team and entertaining concerts. Students will then enter two of the most exciting and competitive businesses in the world. Sports and Entertainment Marketing is everywhere - ballparks, theaters, television, stores, and the Internet. This class will prove to be a current and exciting way to learn about the world of marketing.

## APPLIED ARTS

### CONSUMER SCIENCE (HOME ECONOMICS)

#### Skills for Living – Grades 9, 10, 11, 12

*Prerequisite: None*

*5 Credits/Full Year*

Skills for Living is designed to prepare students for life in “the real world.” This class will help the student develop skills that will be used throughout a lifetime. Students will learn basic information and practical skills in the areas of child development, nutrition, food preparation, and clothing care. Demonstrations, worksheets, readings, tests, projects, and lab experiences will be a part of some units of study. Students will learn the skills needed to work cooperatively in the workplace. Skills for Living is a class that will benefit every student by giving them the confidence to meet the challenges of the future.

#### Economics for Consumers – Grades 10, 11, 12

*Prerequisite: None*

*2.5 Credits/Semester*

This is a semester long course where the students will gain knowledge in the areas of planning, budgeting, smart spending, investing, using credit wisely, and choosing a career to meet their lifestyle. We will research information, gain knowledge from one another, and complete projects related to these real-world topics. These topics will help the student to make informed choices about real world situations related to life and finances.

#### Introduction to Psychology – Grades 10, 11, 12

*Prerequisite: None*

*2.5 Credits/Semester*

Have you ever wondered why everyone doesn't think, feel, and behave the way you do? Introduction to Psychology will provide an opportunity for students to learn about the fundamental processes and behaviors of individuals and how they impact stages of life, personality, motivation, and stress. Students will read and discuss articles about psychological issues confronting their generation, create and conduct surveys, as well as take part in Socratic Seminars and role play. This class will be taken in conjunction with a one semester Economics for Consumers class.

## **TECHNOLOGY EDUCATION: GLOBAL GOAL**

The Industrial Arts/Technology program is designed to introduce students to technological literacy related to a variety of vocations and to develop insight into and an understanding of the applications of technological concepts, processes, and systems. Through hands on activities students develop the technical skills necessary for proficiency in the manual arts. In addition, the Cross Content Workplace Readiness Standards, as mandated by the state, are an integral element of all Industrial Arts coursework. Skills related to the standards include critical thinking, decision making, and problem solving. Students will be expected to demonstrate positive work behaviors including the ability to work cooperatively with others. Students must have a final average of C or better in a course to advance to the next level (Graphics I to Graphics II, for example).

### **Creative Technology** – Grades 7, 8

*Prerequisite: None*

*5 Credits/Full Year*

This course is designed to give students the ability to use, manage, understand, and assess technology. Units of study include Engineering Design Process, Communication, Manufacturing, Construction, Bioengineering, and Transportation. This course will involve problem solving and engineering activities.

### **MS Yearbook Design and Production** – Grades 7, 8

*Prerequisite: None*

*5 Credits/Full Year*

This course is for Middle School students who want to be involved in the production of their own Middle School yearbook. Students will learn basic principles of digital photography and journalistic writing. Students will also learn how to utilize a computer to produce the yearbook that will be sold to their peers. Students who participate in yearbook will also be involved in theme development, cover design, page design, planning, and designing and implementing ideas to be included in the yearbook. Students will be required to work collaboratively to produce, market, and distribute a true Middle School yearbook.

### **Orientation to Technology Education** - Grade 8

Cycles include Orientation to Technology, Orientation to Energy and Renewable Sources, Orientation to Wood, Orientation to Graphics. The courses are cycled so that the student will have nine weeks' experience in four shop areas. The courses are introductory in nature and will include general employment information, audio visuals and practical work experience.

#### **Orientation to Technology**

This cycle introduces the language of Technical Communication. We use basic drafting tools and computers to draw basic geometric problems that are appropriate to this grade level. Units include lettering, flat views, and isometric pictorials. Much effort is generated to tie in other skills, like math and geometry, and technical vocabulary.

#### **Orientation to Energy and Renewable Resources**

Students will learn the basics of electric energy and renewable resources. The students will research and build projects involving the use of renewable resources. Also, the students will learn the basics of electricity and its applications.

#### **Orientation to Wood**

The students will learn basic skills in the general woodworking area. They will produce projects such as wall shelves, cutting boards, key holders, and mug racks. The skills learned can be applied to work in a cabinet shop.

#### **Orientation to Design Technology**

Students will work in the major printing areas of screen, Windows OS computers and photography. They will produce projects such as memo pads, printed T-shirts and greeting cards as would be produced in a printing shop using Print Shop Deluxe, Microsoft Publisher, or Adobe InDesign.

### **Design Technology** – Grades 9, 10, 11 (12 on a space available basis)

*Prerequisite: None*

*5 Credits/Full Year*

Students will learn to operate the machines and to develop skills used in the Printing Industry: working with offset printing presses, darkroom equipment, silk screen and Windows OS computers. Students will study the designed world with hands on activities in disciplines including general construction, engineering, communications, energy & power, and transportation systems. Students will create ideas, develop innovations, and design & build solutions to practical problems in each discipline. Students interested in STEM careers are encouraged to take this course

**Video Game Development** – Grades 9, 10, 11, 12

*Prerequisite: None*

5 Credits/Full Year

In this class students will learn the basics of game design. We will be using the Unity game engine to design and create a 2D game. Students will be introduced to concepts including but not limited to: Critical thinking in game design, game design theory, story and game creation, C# programming, and 3D modeling. Students will end the year with a playable game that they created and a 3D printed model of their main character.



**Video Game Development II** – Grades 10, 11, 12

5 Credits/Full Year

*Prerequisite: Successful completion of Video Game Development I with 85 average & teacher recommendation*

In this class students will continue to learn Unity and C# coding while creating a longer and more creative game. We will touch on concepts like character development, story development, and game narratives. Students will end the year with another playable game and expanded knowledge of Unity and C# programming.

**Digital Technology** – Grades 9, 10, 11 (12 on a space available basis)

*Prerequisite: None*

5 Credits/Full Year

Digital Technology is a full year course broken up into two subjects. The first half of the year students will learn basics of digital photography. They will learn parts of the camera, styles of photography, and subject photography. Students will create a digital portfolio with all of their photos. The second half of the year will be short film making. Students will learn about filming styles, plot development, and film editing. The class will culminate with a finished short film.

**Computer Science Technology** – Grades 9, 10, 11, 12

5 Credits/Full Year

*Prerequisite: None*

This course teaches the basic techniques of computer operations and prepares students to succeed in today's knowledge-based economy by providing equitable and expanded access to high-quality, standards-based computer science and technological design education. This course will enable students to think critically and systematically about leveraging technology to solve local and global issues. This course will provide authentic learning experiences that enable students to apply content knowledge, integrate concepts across disciplines, develop computational thinking skills, acquire and incorporate varied perspectives, and communicate with diverse audiences about the use and effects of computing that prepares students for college and careers.

**Computer Technology** – Grades 10, 11

*Prerequisite: Algebra I with a final grade of 85*

5 Credits/Full Year

This course is designed to introduce the students to the process of building, upgrading, and repairing personal computers, and to prepare them to take the CompTIA A+ Certification Exams. The students will gain the understanding of the problem-solving capacity of computers in our world and apply appropriate troubleshooting techniques in resolving COMPUTER hardware software and configuration problems

**Network Technology** – Grades 10, 11, 12

*Prerequisite: Computer Technology I with a final grade of 85*

5 Credits/Full Year

This course will introduce a variety of concepts, practice activities and simulations that help build the learner's skills and understanding of computer networking. They will learn how to set up a basic home network, configure devices for connectivity, understand how communication takes place on a network, and what minimal best practices should be implemented to secure the network. Learners will also be introduced to software used to manage routers, switches, and servers.

**Computer Aided Drafting & Design** – Grades 9, 10, 11, 12

*Prerequisite: None*

5 Credits/Full Year

This course is intended to introduce students to the field of drafting and design with hands-on opportunities to be creative and apply their decision making and problem-solving skills to real world problems. Students use powerful computer hardware and software (Autodesk's AutoCAD 2019, Inventor and more) to develop 2D and 3D models. Students will learn the product design process through creating, analyzing, rendering, and producing models. The techniques learned and equipment used are state of the art and are currently being used by engineers throughout the United States. Topics covered in the field of drafting are Architecture, Engineering, Problem Solving, and Mechanical. This is a great hands-on course for anyone thinking of going into the field of engineering.

**Architectural Design 1** – Grades 10, 11, 12

*Prerequisite: Computer Aided Drafting and Design*

5 Credits/Full Year

This course focuses on residential design and construction. Floor planning, architectural style, interior design, energy, site planning, and construction concepts are applied to both computer drawings and hand scale modeling. A complete set of house plans will be drawn including floor plans, elevations, foundation, cross sections, detailed wall sections, perspectives, and site plans. Each student will build a scaled model of their house design from plans generated in the course. The course is a great course for future home and business owners, or anyone interested in exploring architecture, construction or other fields of engineering.

**Architectural Design 2** – Grades 11, 12

*Prerequisite: Architectural Design 1*

5 Credits/Full Year

This is a second-year course in architecture. Students transition from 2D to 3D drawing and modeling. Topics of study include isometric drawing, electrical planning, structural design, balsa wood modeling, renovations, commercial design, and 3D rendering. Students complete both individual and group projects through computer programs like (Autodesk's AutoCAD 2013 and Revit

Architecture 2013) and hands on scaled models. The course is a great resource for future homeowners, anyone interested in going into the field of architecture, construction, or home remodeling.

\*\* Students who take two years of Architectural Design and matriculate into the CAD program at Camden County College may be eligible for "advanced standing" credits through the 2+2 program.

**Advanced Architectural Design** – Grade 12

*Prerequisite: Architectural Design 2*

*5 Credits/Full Year*

This course in architecture is designed to provide students with an advanced skill level in the field of architecture or engineering. Students advance their skills in AutoCAD 2013, Revit Architecture 2013, hands on modeling, and problem solving. Topics include structural analysis, green energy, energy analysis, zoning, and building codes and permits. Students will participate in practical design projects within the community with guidance from outside professionals.

**3D Modeling** – Grades 10, 11, 12

*Prerequisite: CAD or teacher recommendation*

*5 Credits/Full Year*

3D Modeling is a course geared toward the planning, designing, and production of 3D objects. This class will provide an in-depth understanding of engineering products that meet specific criteria. The students will work in a job-like atmosphere where they must communicate to attain a goal. Using Autodesk's 2019 AutoCAD and Inventor software, this hands-on course will focus on the production, design and technical skill required to develop computer generated objects and print them on the 3D printers.

**HS Yearbook Design and Production** – Grades 9, 10, 11, 12

*Prerequisite: None*

*5 Credits/Full Year*

This course is designed to introduce students to real world production of a quality publication. Students will learn principles of digital photography, photo editing, journalistic writing, page design, publication design, and layout. Students will also learn how to utilize a computer and a sophisticated series of computer programs (In Design and Photoshop) to produce *Le Souvenir*, Audubon High School's award-winning yearbook. Students who participate in yearbook will also be involved in planning, designing, and implementing ideas, topics and designs for inclusion in *Le Souvenir*. Students will be required to work collaboratively, and students will be expected to work under the pressure of a deadline.

**Woodwork I** – Hand tools and Basic Fundamentals – Grades 9, 10, 11

*Prerequisite: None*

*5 Credits/Full Year*

The course includes care and use of hand tools, bench work, the construction and application of wood joints, drawer construction and other basic fundamentals of cabinetry. Lab fee of approximately \$10 - \$15.00.

**Woodwork II** - Machine Woodwork & Cabinet Making – Grades 10, 11, 12

*Prerequisite: Woodwork I with 85 average & teacher recommendation*

*5 Credits/Full Year*

This course is for serious minded students who wish to learn the art of cabinet making and the care and safe use of power tools. Students will have the opportunity to select and make a project of their choice within a reasonable size, subject to approval of the instructor. Students are required to purchase their own materials. Cost depends on the size of project and material choice.

**Woodwork III** – Grades 11, 12

*Prerequisite: Woodwork I & II with 85 average & teacher recommendation*

*5 Credits/Full Year*

Wood III is open to 11th and 12th grade students who have successfully completed Wood II with a C average or better and have been recommended by the Wood II instructor. This course is designed for those serious-minded students who wish to continue to develop their cabinet making skills. The class will be devoted to the design and construction of one or more advanced level cabinet type projects. Students will also complete a lathe project, shop improvement project, and do several problem-solving assignments. Students are required to purchase their own materials for the cabinet project. Cost depends on the size of project and material choice.

**Wood IV: Construction Technology** – Grade 12

*Prerequisite: Woodwork III, completed application, interview*

*5 Credits/Full Year*

Utilizing skills learned in all three levels of woodshop, students will simulate the occupational experience of a subcontractor to complete various projects for the high school and the district. Students will meet with "clients" to discuss the job, prepare an estimate, order materials, complete the project, and furnish a final bill.

# Economics



## **Business Department**

\*The economics course in the business department cannot contribute to meeting both the economics requirement and the 21<sup>st</sup> Century Life and Careers requirement.

### **Business Economics/Sports and Entertainment Marketing**– Grades 9, 10, 11, 12

*Prerequisite: None*

*5 Credits/Full Year*

Students who take this course will experience one semester of Business Economics (which will fulfill the state graduation requirement for a semester long course in Economics) and one semester of Sports and Entertainment Marketing. This course will teach you marketing skills through the use of Virtual Business. You will own and operate your own store and compete against others for a successful business. You will own and operate your own stadium where you market a football franchise team and entertaining concerts. Students will then enter two of the most exciting and competitive businesses in the world. Sports and Entertainment Marketing is everywhere - ballparks, theaters, television, stores, and the Internet. This class will prove to be a current and exciting way to learn about the world of marketing.

### **Consumer Science (Home Economics)**

\*The economics course in the consumer science department cannot contribute to meeting both the economics requirement and the 21<sup>st</sup> Century Life and Careers requirement.

### **Economics for Consumers** – Grades 10, 11, 12

*Prerequisite: None*

*2.5 Credits/Semester*

This is a semester long course where the students will gain knowledge in the areas of planning, budgeting, smart spending, investing, using credit wisely, and choosing a career to meet their lifestyle. We will research information, gain knowledge from one another, and complete projects related to these real-world topics. These topics will help the student to make informed choices about real world situations related to life and finances.

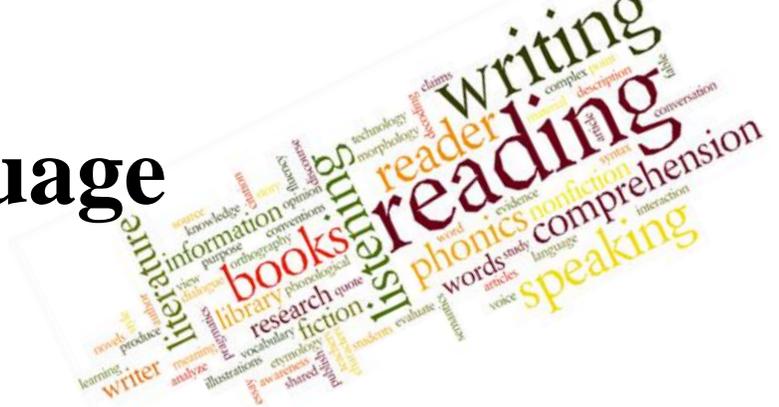
### **Personal Finance** – Grades 9, 10, 11, 12

*Prerequisite: None*

*5 Credits/Full Year*

The purpose of this class is to help the student make choices in life that will support their lifestyle. Life brings many challenges, especially when it comes to money. The student will research options and make choices based on what best fits their needs, wants, and budget. Some of the topics that may be covered include financial planning, career, keeping records, saving, investing, auto insurance, credit cards, banking, buying and maintaining a car, buying food, clothing and an apartment or home, and understanding a paycheck. The last marking period will include an online project where the student must manage a sim's financial and personal life. *Can also fulfill the 21<sup>st</sup> Century Life and Careers or Economics requirement for graduation.*

# English Language Arts



Students are required to take English each year to fulfill state and local requirements for graduation. Each course is offered for an entire year, and placement in a specific course is determined by past performance in English class, teacher recommendation, and scores on standardized tests. All years of English emphasize skills as outlined in the NJ Student Learning Standards: reading, writing, speaking, listening, and viewing.

	7	8	9	10	11	12
<b>Required and Electives</b>						
Language Arts 7						
Language Arts 8						
English I, CP, Honors						
English II, CP, Honors						
English III, CP, Honors, AP						
English IV, CP, Honors, AP						
<b>Journalism and Creative Writing</b>						

## Language Arts 7 - I

*Prerequisite: None*

*5 Credits/Full Year*

Sensitivity will be shown to students' reading comprehension levels while instruction is given to improve these levels. Reading selections will include high-interest novels and short stories as well as the corresponding seventh grade literature found in the curriculum which includes a variety of literary genres. Writing skills emphasized are grammar, sentence structure and paragraph structure as well as writing for a specific audience and purpose. Students will experience timed reading and writing practice. Ongoing vocabulary acquisition and grammar study is also an element of the Language Arts 7-I class. Students will be identified for the Language Arts 7 - I class using multiple indicators.

## Language Arts 7 – II

*Prerequisite: None*

*5 Credits/Full Year*

The Language Arts 7 - II course has been designed to give students a strong background in the basics of the English language. The writing process is reviewed, along with grammar and sentence structure, and is practiced through daily practice, essay writing, and responding to literature. Emphasis will be placed on paragraph organization and adding facts and details. Reading and literature are taught with an emphasis on plot development, theme, and characterization. Selections include short stories, poetry, and essays. Vocabulary and grammar study is included as an integral part of the curriculum. Students are required to read at least three outside novels, which are specifically chosen to demonstrate many different writing styles, including modern, mystery, and classic.

## Honors Language Arts 7

*Prerequisite: By Recommendation*

*5 Credits/Full Year*

The seventh-grade honors course is designed to encourage students to improve their competence in all aspects of Language Arts. The emphasis in this course is placed on writing skills, reading comprehension, and literary analysis. The writing process is reviewed, along with grammar and sentence structure, and is practiced through daily practice, essay writing, and responding to literature. Reading and literature are taught with emphasis on plot development, theme, and characterization. Selections include short stories, poetry, and essays. Students will also experience reading selections representative of the types of passages that appear on state-mandated tests. Students are required to read at least four outside novels, which are specifically chosen to demonstrate many different writing styles, including modern, mystery, and classic. Vocabulary and grammar study as well as independent reading are included as an integral part of the curriculum.

### **Language Arts 8 - I**

*Prerequisite: Successful completion of ELA 7*

*5 Credits/Full Year*

Instruction in the Language Arts 8 - I class will focus on improving deficient reading and writing skills. As with the Language Arts 8 - I course, sensitivity will be shown to students' reading comprehension levels while instruction is given to improve these levels. Reading selections include high-interest novels and short stories including fiction and nonfiction which includes a variety of literary genres. Writing skills emphasized are grammar, sentence structure and paragraph structure as well as writing for a specific audience and purpose. Students will experience timed reading and writing practice. Ongoing vocabulary acquisition is also an element of the course. Students will be identified for the Language Arts 8 – I class using multiple indicators.

### **Language Arts 8 - II**

*Prerequisite: Successful completion of ELA 7 II*

*5 Credits/Full Year*

Skills necessary for success in high school will be emphasized in the eighth-grade program. Study techniques will be reviewed and revisited throughout the year to provide the tools required for successful application of the reading, writing and literary skills attained thus far. There is an introduction to the revising/editing process, conferencing and the writing genres instructed in high school. Emphasis on vocabulary enhancement and grammar skills will be ongoing. Reading comprehension will be taught through short- and long-term reading assignments. Students may be required to read a book or article of their choice. Selections will represent both fiction and nonfiction. Students will learn a variety of strategies to help them improve reading comprehension and to ensure their success as readers of multi-genre literature in high school. Although the curriculum will be similar to the honors course, particular attention will be given to strengthening skills students will need for English courses they will be required to take in grades 9-11, and for continuing their education beyond high school. This preparation will include timed reading and writing.

### **Honors Language Arts 8**

*Prerequisite: Honors Language Arts 7 Final Grade: 88*

*Language Arts 7 – II Final Grade: 95*

*5 Credits/Full Year*

The eighth-grade honors program will be similar to the regular program; however, the major emphasis will be placed on the development of individual writing styles. Students will gain experience writing, editing, and conferencing. Students will work to improve spelling, sentence structure, grammar, and vocabulary skills in an effort to improve writing ability. Students will move toward more independent work in writing and reading. Reading comprehension will be stressed through both short and long-term assignments. The latter will include at least two novels or articles to be read outside of class during the school year in a variety of genres. Timed reading and writing will be required.

### **English I**

*Prerequisite: Successful completion of ELA 8*

*5 Credits/Full Year*

In this course students will develop an awareness of the structure of major literary genres. Students will become familiar with the short story, poetry, drama, and the novel. They will also study aspects of life in various parts of the world, both past and present, as they are portrayed in literature. English I will provide formal instruction in writing and grammar. Critical thinking skills will also be addressed appropriately as students strive to become independent learners.

### **English I CP**

*Prerequisite: Successful completion of ELA 8II*

*5 Credits/Full Year*

In this course students will develop an awareness of the structure of major literary genres. Students will become familiar with the short story, poetry, drama, and the novel. They will also study aspects of life in various parts of the world, both past and present, as they are portrayed in literature. English I will provide formal instruction in writing and grammar. Students will be required to write a research paper. Additionally, students will receive instruction with an emphasis on building independence in reading and writing.

### **English I Honors**

*Prerequisite: Honors Language Arts 8 Final Grade: 91*

*Language Arts 8 – II Final Grade: 95*

*5 Credits/Full Year*

In this course students will develop an awareness of the structure of major literary genres. Students will become familiar with the short story, poetry, drama, and the novel. They will also study aspects of life in various parts of the world, both past and present, as they are portrayed in literature. English I will provide formal instruction in writing and grammar. Students will be required to write a research paper. Students can expect more intensive instruction in literature and formal writing.

### **English II**

*Prerequisite: Successful completion of English I*

*5 Credits/Full Year*

The goal of the English II program is to introduce students to the canon of World literature in various genres in order to broaden their cultural knowledge and reading skills. Writing skills will be assessed primarily through formal analysis papers based on literature although various smaller, informal written pieces may also be assigned. Vocabulary will be studied through the students' vocabulary text. Grammar and usage will be emphasized in composition. In addition, attention will be given to developing and refining listening skills. A lengthy writing assignment that combines elements of literary analysis and formal research will be a requirement of the course. Students will receive intensive instruction in the basic skills cited above.

### **English II CP**

*Prerequisite: Successful completion of English I CP*

*5 Credits/Full Year*

The goal of the English II program is to introduce students to the canon of World literature in various genres in order to broaden their cultural knowledge and reading skills. Writing skills will be assessed primarily through formal analysis papers based on literature although various smaller, informal written pieces may also be assigned. Vocabulary will be studied through the students' vocabulary text. Grammar and usage will be emphasized in composition. In addition, attention will be given to developing and refining listening skills. A lengthy writing assignment that combines elements of literary analysis and formal research will be a requirement of the course. Students will receive instruction with an emphasis on building independence in reading and writing.

### **English II Honors**

*Prerequisite: English I Honors Final Grade: 91*

*English I CP Final Grade: 95*

*5 Credits/Full Year*

The goal of the English II program is to introduce students to the canon of World literature in various genres in order to broaden their cultural knowledge and reading skills. Writing skills will be assessed primarily through formal analysis papers based on literature although various smaller, informal written pieces may also be assigned. Vocabulary will be studied through the students' vocabulary text. Grammar and usage will be emphasized in composition. In addition, attention will be given to developing and refining listening skills. A lengthy writing assignment that combines elements of literary analysis and formal research will be a requirement of the course. Students can expect a brief review of these skills, followed by more intensive instruction in literature and formal writing.

### **English III**

*Prerequisite: Successful completion of English II*

*5 Credits/Full Year*

The goal of the English III program is to instruct students in what it means to be an American through a chronological survey of American literature from the Colonial period to the modern era. The study of various genres of American literature will serve to strengthen fundamental reading skills. The literature text will be supplemented by full length readings. Writing skills will be strengthened as students write short papers related to the literature studied. Both the expository and argumentative essay forms will be stressed as well as critical and analytical writing. The study of usage, in addition to grammar, will be incorporated into writing assignments. Development of thesis statements, topic sentences and transitions are emphasized. Attention will be given to formatting formal papers. Research of relevant databases, finding significant evidence, paraphrasing, embedding quotes and citing sources are re-introduced and practiced. The study of vocabulary is focused on words found in the literature text and on supplementary lists (SAT vocabulary, for example). Students will be required to derive meanings from words in context, analyze and understand the definitions of words and their context of meaning within a text. Students will receive more intensive instruction in the fundamentals of the English language.

### **English III CP**

*Prerequisite: Successful completion of English II CP*

*5 Credits/Full Year*

The goal of the English III program is to instruct students in what it means to be an American through a chronological survey of American literature from the Colonial period to the modern era. The study of various genres of American literature will serve to strengthen fundamental reading skills. The literature text will be supplemented by full length readings. Writing skills will be strengthened as students write short papers related to the literature studied. Both the expository and argumentative essay forms will be stressed as well as critical and analytical writing. The study of usage, in addition to grammar, will be incorporated into writing assignments. Development of thesis statements, topic sentences and transitions are emphasized. Attention will be given to formatting formal papers. Research of relevant databases, finding significant evidence, paraphrasing, embedding quotes and citing sources are re-introduced and practiced. The study of vocabulary is focused on words found in the literature text and on supplementary lists (SAT vocabulary, for example). Students will be required to derive meanings from words in context, analyze and understand the definitions of words and their context of meaning within a text. Students will receive more intensive instruction in the fundamentals of the English language.

### **English III Honors**

*Prerequisite: English II Honors Final Grade: 91*

*English II CP Final Grade: 95*

*5 Credits/Full Year*

The goal of the English III program is to instruct students in what it means to be an American through a chronological survey of American literature from the Colonial period to the modern era. The study of various genres of American literature will serve to strengthen fundamental reading skills. The literature text will be supplemented by full length readings. Writing skills will be strengthened as students write short papers related to the literature studied. Both the expository and argumentative essay forms will be stressed as well as critical and analytical writing. The study of usage, in addition to grammar, will be incorporated into writing assignments. Development of thesis statements, topic sentences and transitions are emphasized. Students work toward discovering their own writing processes, uncovering what system works best for their writing needs. Attention will be given to formatting formal papers. Research of relevant databases, finding significant evidence, paraphrasing, embedding quotes and citing sources are re-introduced and practiced through a half-year project that combines research skills with collaborative and service learning. Students will practice public speaking skills through short presentations in addition to a few lengthier ones. The study of vocabulary is focused on words found in the literature text and on supplementary lists (SAT vocabulary, for example). Students will be required to derive meanings from words in context, analyze and understand the definitions of words and their context of meaning within a text. Students will hone their writing skills in preparation for the SAT and college-level courses.

### **AP English Language and Composition**

*Prerequisite: English II Honors Final Grade: 94 & Teacher Recommendation*

*5 Credits/Full Year*

AP courses are for strongly motivated students who wish to complete meaningful elements of college level studies and potentially earn three college credits while still in high school. Through this course students will develop skills necessary to analyze prose passages and demonstrate their knowledge and understanding by writing essays in various rhetorical modes. In addition to acquiring the skills and knowledge needed to pass the AP Exam, students will also be encouraged to synthesize information from a variety of sources to inform their own discussion of a topic. Potential candidates should be active participants as class discussion is a key component of the curriculum. In order to receive AP weight for an AP course, students must earn an 83 or better in the course and take the corresponding AP exam in May. Students who earn an 83 or better but do not take the AP exam will receive honors weight for this course. See the Advanced Placement section (page 10) for additional information about the Advanced Placement program. This course is eligible for Dual Credit with Camden County College. See the High School Plus section (page 10) for more information.

### **English IV**

*Prerequisite: Successful completion of English III*

*5 Credits/Full Year*

The major goal of the senior course is to polish fundamental skills for use in the post-secondary environment. Extensive practice is given in all types of communication, both written and oral (discussion, Socratic, and presentations). Literary units will focus on masterpieces from classic British literature and contemporary young adult fiction. Vocabulary is studied in conjunction with SAT preparation and used in writing assignments in an effort to offer an integrated course to students. Formal compositions and papers will be written in accordance with college standards and will be written in a variety of ways—research based, analytical, persuasive, short answer, et al. There will be a review of paper mechanics, punctuation, vocabulary and spelling, and composition form.

### **English IV CP**

*Prerequisite: Successful completion of English III CP*

*5 Credits/Full Year*

The major goal of the senior course is to polish fundamental skills for use in the post-secondary environment. Extensive practice is given in all types of communication, both written and oral (discussion, Socratic, and presentations). Literary units will focus on masterpieces from classic British literature and contemporary young adult fiction. Vocabulary is studied in conjunction with SAT preparation and used in writing assignments in an effort to offer an integrated course to students. Formal compositions and papers will be written in accordance with college standards and will be written in a variety of ways—research based, analytical, persuasive, short answer, et al. There will be a review of paper mechanics, punctuation, vocabulary and spelling, and composition form. Students will refine skills necessary for success as they continue their education beyond high school. Critical thinking skills will be emphasized both in composition and discussion. Students will address controversial topics that involve contemporary social issues in written and oral mediums.

### **English IV Honors**

*Prerequisite: English III Honors Final Grade: 91*

*English III CP Final Grade: 95*

*5 Credits/Full Year*

The major goal of the senior course is to polish fundamental skills for use in the post-secondary environment. Extensive practice is given in all types of communication, both written and oral (discussion, Socratic, and presentations). Literary units will focus on masterpieces from classic British literature and contemporary young adult fiction. The assessment and requirements of which will be more in depth and will focus more on students' ability to dissect, deconstruct, and analyze at a level appropriate for a college course. Vocabulary is studied in conjunction with SAT preparation and used in writing assignments in an effort to offer an integrated course to students. Formal compositions and papers will be written in accordance with college standards and will be written in a variety of ways—research based, analytical, persuasive, short answer, et al. There will be a review of paper mechanics, punctuation, vocabulary and spelling, and composition form. Students will refine skills necessary for success as they continue their education beyond high school. Critical thinking skills will be emphasized both in composition and discussion. Students will address controversial topics that involve contemporary social issues in written and oral mediums.

### **AP English Literature**

*Prerequisite: AP English Language Final Grade: 91 & Teacher Recommendation*

*5 Credits/Full Year*

AP courses are for strongly motivated students who wish to complete meaningful elements of college level studies and potentially earn three college credits while still in high school. They are designed to prepare students for the AP Exam without losing sight of the more intangible goals such as: creating life-long readers, critical and creative thinkers, productive and social citizens, and young men and women of integrity and dignity. Through this course students will develop the skills and knowledge necessary to analyze selected poems and prose passages and write critical or analytical essays based on poems, prose passages, novels or plays as well as express themselves in class discussions. In order to receive AP weight for an AP course, students must earn an 83 or better in the course and take the corresponding AP exam in May. Students who earn an 83 or better but do not take the AP exam will receive honors weight for this course. See the Advanced Placement section (page 10) for additional information about the Advanced Placement program. This course is eligible for Dual Credit with Camden County College. See the High School Plus section (page 10) for more information.

### **Journalism & Creative Writing** – Grades 10, 11, 12

*Prerequisite: English I, II or III CP Final Grade: 93 or English I, II or III (H) Final Grade: 89*

*5 Credits/Full Year*

This course is designed to instruct and involve students in the arts of both creative and journalistic writing. An interest in writing and a desire to write are prerequisites for this course as well as a final grade of a 93 in CP English II and/or CP English III. Students taking Journalism & Creative Writing I & II will create, develop, write, design, and produce an informative and reputable newspaper. Students will be able to identify and implement journalistic techniques including story development, appropriate questioning, research methodology, layout design, and editing. Students will be expected to produce between five and seven issues of the school's newspaper, *The Parrot*. Students will work closely with their peers to pitch ideas, edit, and revise articles (their own, as well as their classmate's), and give and receive constructive criticism. The teacher's role as instructor will be limited to mediator, facilitator, and grader. The students hold most of the responsibility in this course. Grading relies heavily on ability to meet deadlines. Failure to meet deadlines and failure to handle responsibilities will result in a failing grade. In addition, students will explore the creative writing arena through the production of an annual literary magazine, *The Published Mind*. Students will be responsible for the creation and development of a school-wide literary magazine that includes poetry, short stories, artwork, photography, and essays. Students will be provided with examples of various forms of creative writing from the world's foremost poets, short story writers, essayists, etc. in an effort to increase the quality of the magazine. The primary purpose of the course is to increase the student's ability to write for a variety of different purposes and audiences. An increased focus on semantics, grammar, usage, and mechanics also provides the students with a foundation on which to build an impressive writing style and portfolio, both of which will be invaluable in college. Admission into this course will be dependent upon completion of an application, a minimum of one recommendation from an English teacher, and a submission of a sample news article.

# Mathematics



It is the goal of the Mathematics Department to meet the individual needs of both academically and vocationally oriented students through a variety of course offerings. The department offers a program whose mastery leads to the successful completion of state-mandated tests. Every effort is made to provide offerings to allow every student to reach his/her maximum potential culminating with an opportunity to earn college credits.

**\*All courses require that students be proficient in the use of the Ti-84 Calculator. Parents are encouraged to purchase the calculator for the students; classroom sets are available for students to use. These calculators are permitted on the NJSLA grade level exams on the calculator section only.**

**\*\*The following courses will require the Ti-89 Calculator: Honors Algebra II, Honors Pre-Calculus; Honors Calculus; AP Calculus. Parents are encouraged to purchase the calculator for the students; classroom sets are available for students to use. These calculators are permitted on the NJSLA Algebra II exam on the calculator section only.**

## Quick guide to math sequence at AHS

<u>Student</u>	<u>CP Student</u>	<u>Honors Student</u>
Math 7 R	Math 7 R	Math Honors 7
Math 8 R	Math 8 R	Algebra I H
Algebra I	Algebra I CP	Geometry H
Geometry	Geometry CP	Algebra II H
Algebra II	Algebra II CP	Pre-Calculus H/Statistics H
Intro to College Math	Pre-Calculus CP/ or Statistics CP	Calculus H/AP /AP Statistics

### Math 7 - I

*Prerequisite: None*

*5 Credits/Full Year*

This course is structured for students who will benefit from coursework aimed at improving their basic skills. The course will also focus on methods of problem solving and analysis. It includes units in operations with rational numbers, ratio and proportional relationships, expressions and equations and probability and statistics.

### Math 7 - II

*Prerequisite: None*

*5 Credits/Full Year*

This course focuses on methods of problem solving and analysis. It includes units in operations with rational numbers, ratio and proportional relationships, expressions and equations and probability and statistics.

### Math 7 Honors

*5 Credits/Full Year*

*Prerequisite: High standardized test scores, 92 or above in 6th grade Math and a teacher recommendation.*

This accelerated course is designed for motivated students who have exhibited excellent math performance and good work habits. The goal of the course is to challenge those students who have shown high Math ability. It is a rigorous course that includes operations with rational numbers, ratio and proportional relationships, expressions and equations, probability, and statistics. It also includes units on linear equations and the Pythagorean Thm. It emphasizes problem solving and applications to prepare the students for Honors Algebra I in 8th grade.

### MATH 8 - I

*Prerequisite: None*

*5 Credits/Full Year*

Sensitivity will be shown to students' mathematic skills while instruction is given to improve these levels. In addition to strengthening skills previously covered, this course will help students to think mathematically and to understand the basic structure

of mathematics through experience with an appreciation of abstract concepts. This course is also designed to help students develop an ever-increasing proficiency in the application of mathematics and prepare them for successful experiences in both algebra and geometry.

### **MATH 8 - II**

*Prerequisite: None*

5 Credits/Full Year

In addition to strengthening skills previously covered, this course will help students to think mathematically and to understand the basic structure of mathematics through experience with an appreciation of abstract concepts. This course is also designed to help students develop an ever-increasing proficiency in the application of mathematics and prepare them for successful experiences in both algebra and geometry.

### **Algebra I Honors**

*Prerequisite: Math 7 Honors Final Grade: 90 and Teacher Recommendation.*

5 Credits/Full Year

The content of this course introduces a new language which is used to develop an understanding of the basic structure of the real number system. Topics included are sets, integers, equations and inequalities, polynomials, irrational numbers, and graphing. This course will also help students develop an ever-increasing proficiency in the application of mathematics and prepare them for successful experiences in both algebra and geometry and on the State mandated NJSLA Algebra 1 exam at the end of this course.

### **Algebra I – Grades 9**

*Prerequisite: Successfully completion of Math 8*

5 Credits/Full Year

Algebra I covers many of the traditional topics of Algebra I and geometry including: lines and slopes, systems of equations, exponents and polynomials, and other topics. The course also includes fundamental topics in discrete math and probability. Through this course students will prepare for the State mandated NJSLA Algebra I exam. Students who successfully complete this course will move on to Geometry.

### **Algebra I CP – Grades 9, 10, 11, 12**

*Prerequisite: Ninth grade students - Math 8 II Final Grade: 86.*

5 Credits/Full Year

Algebra I CP introduces a new language which is used to develop an understanding of the basic structure of the real number system. One of the principal objectives of this course is to have the pupils understand and appreciate the how and why of arithmetic and mathematics through problem solving techniques. Topics included are sets, negative numbers, equations and inequalities, polynomials, fractions, graphs, the real numbers, and quadratic equations. Algebra I CP is a requirement for college bound pupils and nurses' training. Students who successfully complete this course will move on to Geometry.

### **Plane and Solid Geometry – Grades 10, 11**

*Prerequisite: Successful completion of Algebra I.*

5 Credits/Full Year

This course covers many of the traditional topics of Geometry including congruency of triangles, parallelism, similarity, polygons, and circles. Emphasis will be placed on the meaning of deductive reasoning. Through this course students will prepare to take the State mandated NJSLA Geometry exam. Students who successfully complete this course will move on to Algebra II.

### **Plane and Solid Geometry CP – Grades 9, 10**

*Prerequisite: Algebra I CP Final Grade: 77.*

5 Credits/Full Year

This course is designed to develop an understanding of geometry as a mathematical model of physical space. Emphasis will be placed on the meaning of deductive reasoning and mathematical proof. Major topics include congruency, the use of triangles, parallelism, similarity, polygons, equations of a line, and circles. Through this course students will prepare to take the State mandated NJSLA Geometry Exam. Students who successfully complete this course will move on to Algebra II.

### **Plane and Solid Geometry Honors – Grade 9**

*Prerequisite: Algebra I Honors Final Grade: 89 & Teacher Recommendation.*

5 Credits/Full Year

This Honors course is designed to develop an understanding of Geometry as a mathematical model of physical space, i.e., an understanding of both plane and solid geometry as a natural consequence of the fact that Geometry is a scientific model of three-dimensional physical space. Greater emphasis will be placed on the meaning of deductive and inductive reasoning and mathematical proof. Through this course students will prepare to take the State mandated NJSLA Geometry Exam. Students who successfully complete this course will move on to Algebra II Honors.

### **Advanced Algebra with Financial Applications – Grades 11, 12**

*Prerequisite: Successful completion of Algebra I and Plane and Solid Geometry.*

5 Credits/Full Year

Financial Math is a mathematical modeling course that is algebra-based, applications-oriented, and technology-dependent. The course addresses college preparatory mathematics topics from Advanced Algebra, Statistics, Probability, Precalculus, and Calculus under seven financial umbrellas: Banking, Investing, Credit, Employment and Income Taxes, Automobile Ownership, Independent Living, and Retirement Planning and Household Budgeting. The course allows students to experience the interrelatedness of mathematical topics, find patterns, make conjectures, and extrapolate from known situations to unknown situations. The mathematics topics contained in this course are introduced, developed, and applied in an as-needed format in the financial settings covered. Students are encouraged to use a variety of problem-solving skills and strategies in real-world contexts, and to question outcomes using mathematical analysis and data to support their findings. The course offers students multiple opportunities to use, construct, question, model, and interpret financial situations through symbolic algebraic representations, graphical representations, geometric representations, and verbal representations. It provides students with a motivating, young-adult centered financial context

for understanding and applying the mathematics they are guaranteed to use in the future, and is thusly aligned with the recommendations of the New Jersey Student Learning Standards.

**Algebra II CP** – Grades 10, 11, 12

5 Credits/Full Year

*Prerequisite: Algebra I CP or H & P/S Geometry CP or H Final Grade: 77 or teacher recommendation.*

The Algebra II course begins with a review of basic elementary algebra; however, stress is placed on the structure of algebra as a mathematical system and deductive reasoning. Topics used to develop real number concepts and skills are: operating with integers, solution of linear equations and inequalities, verbal problems and properties of polynomials and rational expressions.

The second half of the course develops the concepts of relations and functions, emphasizing linear and quadratics, exponents, logarithms, progressions, special polynomial functions, matrices and determinants. After irrational numbers are introduced and used in these areas thus completing the real number system, the complex numbers are discussed via the imaginary numbers.

**Algebra II Honors** – Grade 10

5 Credits/Full Year

*Prerequisite: Algebra I Honors & Plane and Solid Geometry Honors Final Grade: 89 & Teacher Recommendation.*

The Honors Algebra II course begins with a review of basic elementary algebra; however, stress is placed on the structure of algebra as a mathematical system and deductive reasoning. Topics used to develop real number concepts and skills are: operations with positive and negative numbers, the solution of linear equations and inequalities, verbal problems and properties of polynomials and rational expressions. The course also develops the concepts of relation and function, emphasizing linear and quadratic types, exponents, logarithms, progressions, special polynomial functions, matrices and determinants. After the irrational numbers are introduced and used in these areas, completing the real number system, the complex numbers are discussed via the imaginary numbers. Requires Ti-89 Calculator.

**Introduction to College Math** – Grade 12

5 Credits/Full Year

*Prerequisite: Successful completion of three years of academic mathematics in addition to teacher recommendations. Student scores on the ACCUPLACER College Placement test are also required.*

This two-part course is designed for the student who is planning on attending a two year county college including Camden County College or four year state college. Emphasis will be placed on the skills necessary to succeed on the mandated ACCUPLACER test—a nationally recognized college placement exam, in order for students to access college-level mathematics courses entering into their first year of college.

**Part 1 – Math Fundamentals**—Students will review basic numerical procedures with whole numbers, fractions, decimals, ratios, proportions and percents, and their applications. At the completion of Part 1 students will take an exam and if passed, would also pass a first-level remedial\* math course at Camden County College.

**Part 2 – Elementary Algebra Traditional**—Students will review mathematical symbols and operations in order to formulate and solve first-degree and second-degree equations, graph equations and systems of equations, and work with polynomials, rational expressions, and radicals. At the completion of Part 2 students will take an exam and if passed, would also pass a second-level remedial\* math course at Camden County College.

In addition to the above requirements, students will take the ACCUPLACER test in accordance with the Camden County College requirements. (Continue to next page)

\*Remedial courses are required by Camden County College for students who do not score proficient on the ACCUPLACER exam. By passing the completion exams for Part 1 and Part 2, students have the opportunity to move right into College Level math at Camden County College without the cost of remedial courses that are for “no credit.”

**Statistics CP** – Grade 11, 12

5 Credits/Full Year

*Prerequisite: Algebra II*

This course is designed to strengthen algebra skills while exploring practical applications of mathematics through the use of statistics and probability. The focus of this course will be topics such as algebra, statistics, data analysis, and probability, but will also use examples in research, everyday news, sports, demographics, and other areas of study in order to solve and analyze applications of mathematics. The four major topics of study in this course will be exploring data, collecting and sampling data, probability, and statistical inference (using hypothesis testing). This course is designed for students with strong algebra skills and who may be pursuing a college major in the field of nursing, business, exercise and sports science, psychology, criminal justice, or economics.

**Statistics Honors** – Grade 11, 12

5 Credits/Full Year

*Prerequisite: Algebra II*

This course is designed to strengthen algebra skills while exploring practical applications of mathematics through the use of statistics and probability. The focus of this course will be topics such as algebra, statistics, data analysis, and probability, but will also use examples in research, everyday news, sports, demographics, and other areas of study in order to solve and analyze applications of mathematics. The four major topics of study in this course will be exploring data, collecting, and sampling data, probability, and statistical inference (using hypothesis testing). This course is designed for students with strong algebra skills and

who may be pursuing a college major in the field of nursing, business, exercise and sports science, psychology, criminal justice, or economics. A TI-84 or TI-89 calculator is required.

**Pre-Calculus CP** – Grades 11, 12

5 Credits/Full Year

*Prerequisite: Algebra I CP, Plane and Solid Geometry CP, Algebra II CP, and Teacher Recommendation.*

As preparation for Calculus this course will involve a formal study of trigonometry, analytic geometry, and advanced algebra. The study of trigonometry is based on the knowledge of elementary algebra and geometry. Students will re-examine briefly some properties of the set of real numbers and study in detail circular functions and complex numbers with graphic and algebraic solutions and applications.

The study of analytic geometry will be based upon an understanding of the basic principles of algebra as they apply to analytic geometry. Students will study in detail coordinate lines and planes, equations and graphics, circles, conic sections, transformations of coordinates, graphs of equations of the second degree, polar coordinates, and parametric equations. The study of advanced algebra provides a rich preparation for college courses in calculus, abstract algebra and analytical geometry. Other topics of study will be statements and sets in mathematics, ordered fields, mathematical induction, functions, graphs of polynomial functions and exponential and logarithmic functions, their graphs and applications.

**Pre-Calculus Honors**- Grade 11

5 Credits/Full Year

*Prerequisite: Algebra I H, Geometry H, and Algebra II H Final Grade: 89*

As preparation for AP Calculus AB, this course will involve a formal study of trigonometry, analytic geometry, and advanced algebra. The study of trigonometry is based on the knowledge of elementary algebra and geometry. Students will re-examine briefly some properties of the set of real numbers and will study in detail circular functions and complex numbers with graphic and algebraic solutions and applications.

The study of analytic geometry will be based upon an understanding of the basic principles of algebra as they apply to analytic geometry. Students will study in detail coordinate lines and planes, equations and graphics, circles, conic sections, transformations of coordinates, graphs of equations of the second degree, polar coordinates, and parametric equations. The study of advanced algebra provides a rich preparation for college courses in calculus, abstract algebra, and analytical geometry. Other topics of study will be statements and sets in mathematics, ordered fields, mathematical induction, functions, graphs of polynomial functions and exponential and logarithmic functions, their graphs and applications. Requires Ti-89 Calculator.

**Calculus Honors** – Grade 12

5 Credits/Full Year

*Prerequisite: Algebra I, Plane and Solid Geometry, Algebra II, Pre-Calculus Final Grade: 89 & Teacher Recommendation.*

This syllabus will expose the students to the AP Calculus curriculum outlined by the Education Testing Service. Students taking Calculus Honors will receive instruction in the study of polynomial functions, derivatives, anti-derivatives, exponential and logical functions and applications of the above. Additional emphasis will be placed on stretching arithmetic skills. Requires Ti-89 Calculator.

**Advanced Placement Calculus AB** – Grades 11, 12

5 Credits/Full Year

*Prerequisite: Honors Pre-Calculus Final Grade: 92 & Teacher Recommendation.*

*Concurrent enrollment with Physics is strongly recommended.*

AP Calculus requires students to form a study group of 4 to 6 students to meet outside of the school day for at least one hour per week. Written documentation of these meetings is a course requirement. This requirement is non-negotiable. AP Calculus is an intense course which covers college level Calculus I. The course moves at a rapid pace and has a significant homework requirement. Student grades for AP Calculus will be based primarily on student performance on chapter exams and weekly quizzes. A large majority of the content material will be taught without the aid of a calculator. Topics covered include limits, continuity, differentiation, optimization, related rates, integration, anti-differentiation, area under a curve, the volume of solids of revolution and differential equations. There will be an overlap of topics with Physics which include kinematics, work, and exponential growth & decay. It is expected that all students who sign up for AP Calculus AB will also take the AP Calculus AB exam in the spring, which may award college credit for Calculus I. Requires Ti-89 Calculator.

In order to receive AP weight for an AP course, students must earn an 83 or better in the course and take the corresponding AP exam in May. Students who earn an 83 or better but do not take the AP exam will receive honors weight for this course. See the Advanced Placement section for additional information about the Advanced Placement program.



# Physical Education & Health

The health education program has been designed to focus on specific issues and behaviors which are confronting our population of young people. Our goal is to provide students with a strong knowledge base in each area to enhance their decision-making capabilities. Emphasis is placed on developing awareness of chemical abuse and dependency, sexuality education, first aid and CPR training, nutrition, and driver education.

## **Health 7 – Substance Abuse & Components of Health** – Grade 7

This course is designed to assist students in grade seven to promote their knowledge of health subjects pertinent to their grade level and to the core curriculum standards. Focus will be on providing cognitive content and learning materials that cover a wide variety of topics including personal health, life skills, and drug education. Students will, with instruction, improve their knowledge of the lessons taught, increase their decision-making skills, and improve their self-esteem which in turn will enhance their mental, physical, and social development.

## **Health 8 – Introduction to Family Life Education & First Aid** – Grade 8

This course is designed to assist students in grade eight to develop an understanding of health-related behaviors and the effect of these behaviors on their health status. Students will be challenged to take responsibility for their own health and wellness. Students will, with instruction and support, improve their knowledge in the areas of First Aid, Personal Safety, Diseases, Sexuality and Leadership. Focus will be on providing cognitive content and learning experiences that support the New Jersey Core Curriculum Content Standards.

## **Health 9 – Advanced Family Life Education** – Grade 9

This course deals with the nature of families; their structure, purposes and functions, their changing relationships and historical evolution. Emphasis is placed on providing information about physical, emotional, mental and social changes that occur during adolescence and the effects of those changes on interpersonal relationships, both inside and outside the family unit.

This course also focuses on understanding the dimensions of sexuality, concentrating on human development, the evolving nature and complexities of relationships, emotional development, and social attitudes. On a factual level, the course encompasses sexual health and reproduction as well as opportunities to explore current social issues in the hope that the student will be able to develop and form his or her own opinions and values regarding each topic. Students will, with instruction and support, improve their knowledge in the areas sexually transmitted infections, contraceptive methods, pregnancy, dating violence, and sexual harassment.

## **Health 10 - Driver Education** – Grade 10

Safety Education is a program designed to help novice drivers develop the knowledge, skills, and attitudes necessary to become educated, safe, and responsible drivers. Students will discover all the intricate parts of the highway transportation, vehicle code, licensing, registration, and insurance procedures. Students will be required to investigate and research various topics and develop multi-media presentations to the class. Students will also prepare for the New Jersey State licensing exam which will be administered upon completion of the course. It is our goal for students to complete the course with a greater appreciation for appropriate and defensive driving habits and therefore use their skills to drive safely.

## **Health 11 - Standard First Aid & Safety** – Grade 11

Standard First Aid includes both community CPR and First Aid emergencies. The first part deals with CPR, heart attack, cardiac arrest, and choking. Students will take both practical and written tests in this course. Students will be provided with instruction, modeled from a hands-on instructional program (established by the Red Cross, American Heart Association or other nationally recognized association with the required expertise) in cardiopulmonary resuscitation (CPR) and automated external defibrillation (AED). The First Aid portion of the course includes common emergencies and prepares the student to handle most situations when emergency first aid is needed and medical assistance is delayed. In addition, this course also examines specific social issues confronting adolescents in our culture including AIDS awareness, STD, prevention, pregnancy, and birth control. Students will also experience some career-related instruction as part of the Health III program.

## **Health 12 – Nutrition, Fitness and Exercise, Weight Control** – Grade 12

This course is designed to teach the students proper nutrition and how a fitness and exercise routine promotes physical and mental health. It will also teach the proper way to control weight. Lastly, the students will integrate what they have learned throughout

the semester in a health project that consists of a large portion of their grade. Healthy weight control programs will also be addressed.

**Seventh and Eighth Grade Physical Education**

Physical education is required for all students in 7th and 8th grades. A seasonal program is taught within the physical fitness program. Students are exposed to activities such as touch football, soccer, basketball, wrestling, volleyball, tumbling, track, dance, softball, weight training, field hockey, lacrosse, and individual activities such as tennis.

**Physical Education** – Grades 9, 10

This course is designed to assist students in grades nine and ten in promoting their optimum physical, mental, emotional, and social development. Focus will be on providing cognitive content and learning experiences that support a variety of physical activity areas including applying movement skills during team and individual sports, physical fitness programs, dance, and lifetime recreational activities. Students will, with instruction and guidance, improve their skills, concept knowledge, self-confidence, and individual fitness levels as well as develop an appreciation for the mental, emotional, and social benefits of physical activity and personal fitness.

**Physical Education** – Grades 11, 12

This course is designed to assist students in grades eleven and twelve in promoting their optimum physical, mental, emotional, and social development. Focus will be on providing cognitive content and learning experiences that support a variety of physical activity areas including applying movement skills during team and individual sports, physical fitness programs, dance, and lifetime recreational activities. Students will, with instruction and guidance, improve their skills, concept knowledge, self-confidence, and individual fitness levels as well as develop an appreciation for the mental, emotional, and social benefits of physical activity and personal fitness. Upon completion of the physical education program, students will have developed a solid foundation of information, knowledge and experiences which are conducive to leading a healthy lifestyle.

# Science



Science is divided into two areas of learning: Physical Science and Biological Science. Physical Science is concerned with matter that is non-living, such as Chemistry, Chemistry Inquiry, Physics, and STEM. Biological Science is concerned with matter that is living including courses such as Biology/Lab, Biology Inquiry, Forensics and Anatomy.

In science you will study facts which are organized into systematic and meaningful patterns developed as a result of experimentation, observation, and insight. This study will help you to become a better-informed individual and to be aware of the changes going on around you due to science.

## **Life Science** – Grade 7

5 Credits/Full Year

*Prerequisite: None*

This course in junior high life science is meant to introduce the student to basic biology. Topics of study include the characteristics and requirements of living organisms, the methods of science, cell structure and cell function, the classification of living things, microscopic organisms, vascular and non-vascular plants, invertebrates, and vertebrates. Lab skills are developed. The course serves as a foundation for the student planning to pursue Biology and/or Anatomy in high school.

## **Physical Science** – Grade 8

5 Credits/Full Year

Physical Science is a course designed to allow students to explore the basic concepts of chemistry and physics. Students will be introduced to the history and nature of science with a focus on matter and energy. Specific topics examined during the year include, but are not limited to, the nature of matter, classification of matter, atomic structure, periodic table, chemical bonding, chemical reactions, forces, motion, weight, and gravity. Students will be encouraged to explore the relationship between science and everyday life with hands-on activities. Students enrolled in physical science need to have successfully passed 7th grade life science.

## **Honors Physical Science** – Grade 8

5 Credits/Full Year

*Prerequisite: Life Science & Math 7 Final Grade: 86*

This course in Physical Science is weighted as an honors course. The course is designed for students planning on taking the accelerated honors science track in high school. Its purpose is to expose students to the world of physical science and to offer the student the opportunity to work with graduated cylinders, beakers, funnels, balances, test tubes, microburners and other equipment used in high school science labs. The students will do experiments, collect data, make graphs and analyze the results of the experiment in partners or groups. Course content includes work in chemistry, physics, and basic laboratory techniques through abstract reasoning.

## **Environmental Science and Environmental Science CP** – Grade 9

5 Credits/Full Year

*Prerequisite: None*

All freshmen with the exception of Honors students will be required to take Environmental Science. The goal of Environmental Science is to provide students with 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. Environmental Science is interdisciplinary; it embraces a wide variety of topics from different areas of study. Units covered in this class include: 1. Earth Systems and Human Population, 2. Ecology and Biodiversity, 3. Land Use, Soil, and Agriculture, 4. Water Resources, 5. Atmosphere, Weather, Climate, and Climate Change, and 6. Energy and Waste Management.

Throughout the course, attention will be drawn to how humans are affecting the Earth around us, both positively and negatively. Through class activities that encourage problem solving, discussion, research and cooperative activities, students will further develop and expand their skills in critical thinking and decision-making.

## **Biology: Inquiry Based** – Grade 10

5 Credits/Full Year

*Prerequisite: None*

Biology explores the study of living things in logical progression from the simple virus to the most complex of life forms-the human body. Students will be shown the importance of a sound biological knowledge base through in-depth class discussion of current science related news reports-keeping them on the cutting edge of biotechnology. Knowledge gained in this course will also enable students to make educated decisions regarding both the environment and their own personal well-being.

**Biology CP with Lab** – Grade 10

5 Credits/Full Year

*Prerequisite: Environmental Science CP Final Grade: 77.*

Biology is a science that deals with the realm of living things. In the beginning of the course, students are introduced to certain biological and chemical concepts which serve as a background for the year's work. From these foundations, the student progresses from the study of a single cell and its functions to biological themes that include natural selection, genetics, kingdom studies, and ecology. The laboratory work supplements and clarifies the lecture-discussion phase of the course and provides the student an opportunity to do experimental work.

**Honors Biology with Lab** – Grades 9, 10

5 Credits/Full Year

*Prerequisite: Grade 9 - Science 8 (H) Final Grade: 86**Grade 10 - Environmental Science (CP) Final Grade: 92, Algebra I (H) Final Grade: 86 & Teacher Recommendation*

This lab course is designed for Honors college-oriented students only. More emphasis is placed on analysis and interpretation of experimental data. Studies progress from single cells and their life functions to biological themes that include natural selection, genetics, evolution, ecology, and the different kingdoms of living things. Laboratory work is integrated into these studies and provides students opportunities to do experimental work.

**Advanced Placement Biology** – Grades 11, 12

5 Credits/Full Year

*Prerequisite: Biology with Lab H Final Grade: 89 & Teacher Recommendation.*

This course is designed for the serious student who intends to fulfill a college requirement or take higher level biology courses at college. Through this course students are provided with a conceptual framework, factual knowledge, and analytical skills necessary to deal critically with the rapidly changing science of biology. Three general areas will be covered: molecules and cells; heredity and evolution; and organisms and populations. There will be a series of labs throughout the year to support classroom instruction. This course will follow the AP curriculum and will prep students for the AP Biology test.

In order to receive AP weight for an AP course, students must earn an 83 or better in the course and take the corresponding AP exam in May. Students who earn a B- or better but do not take the AP exam will receive honors weight for this course. See the Advanced Placement section (page 10) for additional information about the Advanced Placement program.

This course is eligible for Dual Credit with Camden County College. See the High School Plus section (page 10) for more information.

**Chemistry: Inquiry Based** – Grade 11

5 Credits/Full Year

*Prerequisite: Recommendation of science teacher.*

This course is intended for students looking to strengthen their background in the field of chemistry. Topics covered are continuously linked to real world applications through the use of current event discussions and Internet research. Technological breakthroughs are also discussed throughout the course. Topics to be covered: 1. Classifications of Matter 2. Atomic Structure 3. Periodic Table 4. Chemical Bonding 5. Chemical Names and Formulas 6. Chemical Reactions/Equations 7. Behavior of Gases 8. Acids, Bases, and Salts (if time permits) 9. Organic Chemistry (if time permits) 10. Biochemistry (if time permits).

**Chemistry CP with Lab** – Grades 10, 11

5 Credits/Full Year

*Prerequisite: Algebra I CP or Geometry CP Final Grade: 86 & Teacher Recommendation.*

College Preparatory Chemistry offers the student an in-depth study of matter and the changes it undergoes. The course content includes the study of the identification of elements, chemical reactions, acids and bases, properties of solids liquids and gases, and the mathematical relationships of each. Because of the highly mathematical content of this course, a grade of 86 or above in both CP Algebra I and CP Geometry are required as prerequisites. Students should have a working knowledge of percent, ratio, proportions, graphing, solving for unknowns in an algebraic equation and the ability to solve word problems. Students will be working on computer-based activities, presentations, and demonstrations. In addition, a great emphasis is placed on laboratory investigations and safety in the lab. Written lab reports are required for most lab activities.

**Honors Chemistry with Lab** – Grades 10, 11

5 Credits/Full Year

*Prerequisite: Algebra I H, Biology H & recommendation of Biology teacher.**Co-requisite: Concurrent enrollment in Honors Algebra II or Honors Pre-Calculus.*

Honors Chemistry is a math based physical science course that uses the skills taught in Honors Algebra I and Honors Geometry to investigate the behaviors and properties of matter. Most of the work will be math-based problem solving. There will be a substantial amount of time dedicated to lab work and cooperative learning. Students should expect to do 3 or more labs each month. There will be a significant amount of homework assigned, and all students must have a scientific or graphing calculator for the entire year. Topics investigated in Honors Chemistry include chemical reactions, stoichiometry, atomic and molecular theory, the chemical and physical properties of gases, and oxidation-reduction reactions.

**Advanced Placement Chemistry** – Grades 11, 12

5 Credits/Full Year

*Prerequisite: Honors Chemistry Final Grade: 92**Co-requisite: Concurrent enrollment in Honors Pre-Calculus or Honors Calculus.*

AP Chemistry is a mathematically intensive course which is significantly more difficult than Honors Chemistry. This course picks up where Honors Chemistry left off and investigates topics such as kinetics, acid-base reactions, precipitation reactions,

electrochemistry, thermodynamics, and advanced atomic/molecular theory. The homework problems will be more difficult than Honors Chemistry, and there will be a significant amount of class time dedicated to lab investigations. Lab activities will include college level procedures such as performing titrations and using spectrophotometers. The course grade for AP Chemistry is based primarily on student performance on multi-chapter exams and weekly quizzes. This course is designed to prepare students to take the AP Chemistry exam in May, and successful completion of that test may award you college credits for Chemistry I at the college you attend. It is expected that all students enrolled in AP Chemistry sign up for and take the AP Chemistry exam. In order to receive AP weight for an AP course, students must earn a B- or better in the course and take the corresponding AP exam in May. Students who earn a B- or better but do not take the AP exam will receive honors weight for this course. See the Advanced Placement section (page 10) for additional information about the Advanced Placement program.

This course is eligible for Dual Credit with Camden County College. See the High School Plus section (page 10) for more information.

**Chemistry II (HONORS)** – Grade 11 or 12

5 Credits/Full Year

*Prerequisite: Honors Chemistry Final Grade: 80 or Chemistry CP Final Grade: 85 & Teacher Recommendation.*

Chemistry II is a hands-on chemistry course that will explore chemistry topics through laboratory activities. In a typical week, students will work in the lab at least 4 out of 5 days. Tests and quizzes will be laboratory based and will be cooperative within the student's lab group. Just like in a real science lab, all work you do will be done as part of a group. Because of this approach, the homework requirement will be minimal. This course is designed as an elective for students who want to learn more about chemistry but who value the laboratory experience. Experiments will include analyzing metal alloys, synthesizing aspirin, distillation of an organic mixture, acid-base titrations and synthesizing/analyzing esters. Chemistry II is the only course at AHS that will thoroughly investigate organic chemistry. Chemistry II will prepare students for any first or second year chemistry course they take in college.

**Honors Anatomy with Lab** – Grades 11, 12

6 Credits/Full Year

*Prerequisite: Biology CP or Honors Biology AND Chemistry CP or Honors Chemistry Final Grade: 83 in both disciplines.*

Anatomy is a course covering human anatomical structure and the physiology of systems. The course is designed for students considering a career in the health-related areas, e.g. medicine, medical research, pharmacology, nursing, physical/respiratory/occupational therapies, medical technology and veterinary science, or those students considering a life science major. It is recommended the course be taken concurrently with Physics or Advanced Placement Biology for those students considering a straight science major. The course calls for students to do ongoing dissections from the representative systems that are studied throughout the year. It is not recommended for engineering or physical science majors in lieu of the physics course.

This course is eligible for Dual Credit with Camden County College. See the High School Plus section (page 10) for more information.

**Anatomy & Medical Terms** – Grades 11, 12

5 Credits/Full Year

*Prerequisite: Biology AND Chemistry*

Anatomy and Physiology for Medical Careers is a course designed for students interested in medical- and health-related fields (medical, nursing, dental, etc.). Students will learn anatomy, physiology, medical terminology, nutrition, human growth and development, human diseases, infection control, and human reproduction using a hands-on, project-based approach. Collaborative lab work and dissections are also an integral part of this course.

This full-year course provides students with an in-depth study of medical- and health-related careers including actual clinical experiences in a variety of areas. Instruction includes intermediate anatomy & physiology, medical terminology, diseases and disorders, medical ethics, and medical practices.

This course will benefit students who have an interest in pursuing a career in the health career/medical science fields. The practical career-focused approach would expose students to content and experiences to prepare them for college level or technical courses after high school and it would enable them to make more informed decisions about future plans in these fields.

**Honors Genetics** – Grades 11, 12

5 Credits/Full Year

*Prerequisite: Honors Biology Final Grade: 85 or Biology CP Final Grade: 91.*

This course is designed to provide students with a basic understanding of the concepts of genetics and genomics, in preparation for higher level biological sciences in their college careers. They will be presented with the fundamentals of genetics, including the physical basis of inheritance, principles of prokaryotic and eukaryotic cell genetics, the mechanics of inheritance, probability, chromosomal abnormalities and anomalies, gene structure and function, molecular genetics, behavioral genetics and contemporary issues in genetics. Both classical and modern genetic principles and methods will be covered, with a strong emphasis on applications to human biology and medicine and presented with approaches to finding disease susceptibility genes and therapy of genetic diseases. Students will examine where the field is today, where it is going, and what goals there are for the future. They will use problem solving skills and critical thinking to explore the positive and negative aspects of expanding knowledge in genetics.

**Introduction to Forensics CP – Grades 11, 12**

5 Credits/Full Year

*Prerequisite: Biology CP and Chemistry CP Final Grade: 74.*

This is a course covering the fundamentals of forensic science. This course will provide the student with the understanding of general applications of forensic science and experience in using various techniques and instruments for this purpose. This course is designed to present a student with select topics covering contemporary developments in the area of forensics. Some of the topics that will be discussed are blood evidence, chromatography, crime scene management, DNA analysis, fiber analysis, fingerprint classification, forensic photography, hair analysis, microscopy, toxicology, ballistics, impressions evidence, document analysis and gathering evidence. This course is designed for students that have an interest in pursuing a career in the sciences.

**Introduction to Forensics Honors** – Grades 11, 12

5 Credits/Full Year

*Prerequisite: Biology CP or Honors Biology AND Chemistry CP or Honors Chemistry Final Grade: 83 in both disciplines.*

This is a course covering the fundamentals of forensic science. This course will provide the student with an understanding of general applications of forensic science and experience in using various techniques and instruments for this purpose. This course is designed to present a student with select topics covering contemporary developments in the area of forensics. Some of the topics that will be discussed are blood evidence, chromatography, crime scene management, DNA analysis, fiber analysis, fingerprint classification, forensic photography, hair analysis, microscopy, toxicology, ballistics, impressions evidence, document analysis and gathering evidence.

Students in this course will process mock crime scenes. They will document, photograph, and properly collect evidence. Principles of life and physical sciences will be applied when analyzing the collected evidence. When analyzing evidence students will use proper handling and chain of custody procedures and submit lab results in a standard report format. This course is designed for students that have an interest in pursuing a career in the sciences.

This course is eligible for Dual Credit with Camden County College. See the High School Plus section (page 10) for more information.

**Honors Physics with Lab** – Grades 11, 12

5 Credits/Full Year

*Prerequisite: Biology (CP or Higher), Chemistry (CP or Higher), Algebra (CP or Higher) I & II, Plane and Solid Geometry (CP or Higher) Final Grade: 86 in each discipline*

*Co-requisite: Concurrently taking a fourth-year academic math (Honors Pre-Calculus or Honors/AP Calculus).*

This course is for college-bound students, especially those intending to further their education in the math and science-related fields. It is specifically designed for those who are planning a career in engineering, engineering technology, electronics, computer science, physics, biology, chemistry, mathematics, and other related fields. Topics studied include, but are not necessarily limited to, light, optics, the laws of motion, gravitation, electricity and magnetism and planetary motion. Laboratory work in this Physics course is built around the idea of "search and discovery" rather than the more traditional "cookbook" approach. It is, as a result, interesting and imaginative.

**STEM – Science, Technology, Engineering, & Mathematics (Honors)** – Grade 11 or 12

5 Credits/Full Year

*Prerequisite: Biology (CP or Higher), Chemistry (CP or Higher), Algebra (CP or Higher) I & II, Plane and Solid Geometry (CP or Higher) Final Grade: 86 in each discipline.*

*Co-requisite: Concurrently taking a fourth-year academic math (Pre-Calculus or Calculus).*

The STEM course, like physics, is specifically designed for those who are planning a career in engineering, engineering technology, electronics, computer science, physics, biology, chemistry, mathematics, and other related fields. The course will act as an introduction to the fields of engineering and computer science, with a focus on student-led optimization of complex systems through design, implementation, and testing. Beyond engineering, there will be a focus on logical thought in the realm of mathematical and scientific theory. Subject matter includes, but is not limited to, logic circuits, electric circuits, encryption, electrostatics, electric circuits, and data analysis using spreadsheets.

**Natural Disasters: The Science Behind Earthquakes, Volcanoes, Tsunamis, Hurricanes and More**

2.5 Credits/Semester

*Prerequisite: Completion of any three science courses*

*Co-requisite: Physics of Renewable Energy: Concepts and Career Preparation*

Earth is a dynamic planet, constantly affected by natural processes. This one semester course will focus on the science behind many of the natural disasters humankind faces. Students will leave this class with a better understanding of the forces of nature and the disasters they cause. From meteorological events to geological events this course will give students a much better scientific understanding of the world around them. The course will focus on naturally-occurring disasters, but will also consider the role of human activities in both contributing to, and mitigating natural disasters.

**Physics of Renewable Energy: Concepts and Career Preparation**

2.5 Credits/Semester

*Prerequisite: Completion of any three science courses*

*Co-requisite: Natural disasters; currently in a 4th year of math*

As Earth continues to warm, weather systems seem to become more and more unpredictable and temperamental, forcing a shift to renewable energies and more sustainable technologies and practices. This semester course will study the underlying physics of our current means of energy generation and how the transition to renewables will help society in the long-term. The course is designed for students who are interested in careers in the renewable energy sector, with a particular focus on conceptual understanding and career readiness. Topics will include but are not limited to the science behind both traditional (fossil fuels, nuclear) and renewable (solar, wind, geothermal, hydro, nuclear) energies; carbon capture and neutralization; and electricity generation, transmission, and consumption.



# Social Studies



The chief goal of social studies is to cultivate in the student a more mature understanding of our political, legal, social, economic systems and our cultural heritage. It is also intended to focus the students' attention on the relationship between historical events and current problems in our ever-shrinking world. Students in these courses will develop skills in the problem-solving process, in critical thinking, in organizing data, in decision making, and in the art of being a responsible citizen of our nation.

All freshmen will be scheduled for U. S. History I. This decision was made to build on the eighth-grade course which focuses on Civics and American government. The new sequence of courses will be U.S.I, U.S. II, and World History.

	7	8	9	10	11	12
<b>Required and Electives</b>						
<b>Ancient Civilizations</b>						
<b>US Government and Civics</b>						
<b>US History I*</b>						
<b>US History II*</b>						
<b>World History*</b>						
<b>History Through Film</b>						
<b>History of Sports &amp; Worth of the Game</b>						
<b>Current Trends and World Economics**</b>						
<b>Sociology / Criminal Law</b>						

\* US History I, US History II & World History required

\*\* Fulfills NJ Economics requirement

## Social Studies 7

*Prerequisite: None*

*5 Credits/Full Year*

This course will focus on the cultural geography of the world. Its purpose is to introduce the students to the fundamentals of geography and explore world cultures. An emphasis will be placed on how the geographical location of a place affects its climate, customs, and culture. The culture's literature, art, religions, ideologies, and philosophies will be explored to enrich students' understanding of the human experience. Connections between the ancient and modern world will also be explored.

## Social Studies 8

*Prerequisite: None*

*5 Credits/Full Year*

This course will focus on the elements of Civics and American government. It will offer students a strong introduction to government, citizenship, and the American economic and legal systems. Various activities will enable students to acquire skills to analyze how past and present interactions have shaped our American heritage. Connections between content to current civic issues are a theme throughout the course from a multitude of regionalized perspectives. Relevant activities will help students learn what comprises our local, state and federal governments with a strong focus on primary source documents. An emphasis will be placed on the development of writing and critical thinking skills. This will help them understand the election process and other pertinent information needed to be successful in United States History I and II courses at Audubon High School.

## Social Studies 8 Honors

*Prerequisite: Social Studies 7 Final Grade: 95*

*5 Credits/Full Year*

This course will focus on the elements of Civics and American government. It will offer students a strong introduction to government, citizenship, and the American economic and legal systems. Various activities will enable students to acquire skills to analyze how past and present interactions have shaped our American heritage. Connections between content to current civic issues are a theme throughout the course from a multitude of regionalized perspectives. Relevant activities will help students learn what

comprises our local, state and federal governments with a strong focus on primary source documents. An emphasis will be placed on the development of writing and critical thinking skills. This will help them understand the election process and other pertinent information needed to be successful in United States History I and II courses at Audubon High School. The Honors course prepares students to be successful at the honors and advanced placement levels in high school.

**U.S. History I** – Grade 9

*Prerequisite: None*

*5 Credits/Full Year*

This course deals with the history of the United States from the onset of the American Revolution to the Gilded Age of the late 1800s. The course is planned to develop in the student an understanding of our political, economic, and cultural growth through the nineteenth century. Through their study students will learn the value of historical perspective. The study of American history will demonstrate to students how change in human affairs has occurred at an increasing velocity within a relatively short span of years.

**U.S. History I CP** – Grade 9

*Prerequisite: By Recommendation*

*5 Credits/Full Year*

This course deals with the history of the United States from the onset of the American Revolution to the Gilded Age of the late 1800s. The course is planned to develop in the student an understanding of our political, economic, and cultural growth through the nineteenth century. Through their study students will learn the value of historical perspective. The study of American history will demonstrate to students how change in human affairs has occurred at an increasing velocity within a relatively short span of years.

**U.S. History I Honors** – Grade 9

*Prerequisite: Social Studies 8 (H) Final Grade: 91*

*Social Studies 8 (R) Final Grade: 95*

*5*

*Credits/Full Year*

This course deals with the history of the United States from the onset of the American Revolution to the Gilded Age of the late 1800s. The course is planned to develop in the student an understanding of our political, economic, and cultural growth through the nineteenth century. Through their study students will learn the value of historical perspective. The study of American history will demonstrate to students how change in human affairs has occurred at an increasing velocity within a relatively short span of years. This course prepares students for success at the advanced placement level.

**U.S. History II** – Grade 10

*Prerequisite: None*

*5 Credits/Full Year*

This is a survey course of American history from the Gilded Age of the late 1800s to the present. In this course we attempt to develop and analyze the liberal and conservative policies that our government has adopted at various times in order to meet our domestic and foreign responsibilities. It is stressed that over the years our government has made changes of policy within the framework of our Constitution as new issues have made it necessary to readjust our priorities in order to meet the needs of our society. A technique of relating current government policies and domestic and foreign events to past history is used to help put our country's historical past into perspective. The course is planned to develop in the student an understanding of our political, economic, and cultural growth through the present.

**U.S. History II CP** – Grade 10

*Prerequisite: By Recommendation*

*5 Credits/Full Year*

This is a survey course of American history from the Gilded Age of the late 1800s to the present. In this course we attempt to develop and analyze the liberal and conservative policies that our government has adopted at various times in order to meet our domestic and foreign responsibilities. It is stressed that over the years our government has made changes of policy within the framework of our Constitution as new issues have made it necessary to readjust our priorities in order to meet the needs of our society. A technique of relating current government policies and domestic and foreign events to history is used to help put our country's historical past into perspective. The course is planned to develop in the student an understanding of our political, economic, and cultural growth through the present.

**U.S. History II Honors** – Grade 10

*Prerequisite: US History I Honors Final Grade: 91*

*US History I Final Grade: 95*

*5 Credits/Full Year*

This is a survey course of American history from the Gilded Age of the late 1800s to the present. In this course we attempt to develop and analyze the liberal and conservative policies that our government has adopted at various times in order to meet our domestic and foreign responsibilities. It is stressed that over the years our government has made changes of policy within the framework of our Constitution as new issues have made it necessary to readjust our priorities in order to meet the needs of our society. A technique of relating current government policies and domestic and foreign events to past history is used to help put our country's historical past into perspective. The course is planned to develop in the student an understanding of our political, economic, and cultural growth through the present as well as prepare the student for the advanced placement course.

**AP U.S. History** – Grade 10

*5 Credits/Full Year*

*Prerequisite: US History I Honors: 91 & Teacher Recommendation*

This is a survey course of American history from the Gilded Age of the late 1800s to the present. Students taking AP U.S. History II will receive instruction in the skills and information necessary to be successful on the AP exam which is administered in May. At

Audubon High School the teacher serves as the facilitator for student success on the AP exam. In this capacity, we view this as a cooperative relationship between students and teachers. With a high score on the AP exam, students may earn college credit. The AP U.S History course at Audubon High School not only is geared to prepare students for the AP Exam, but it also provides an enriched experience in the study of America's past. Through use of historical documents and a historiographical approach, students will gain an understanding of how history works and how historians operate. Students will read various historians' interpretations of major issues in United States history, analyze documents, and write their own arguments.

In order to receive AP weight for an AP course, students must earn an 83 or better in the course and take the corresponding AP exam in May. Students who earn an 83 or better but do not take the AP exam will receive honors weight for this course. See the Advanced Placement section (page 10) for additional information about the Advanced Placement program.

This course is eligible for Dual Credit with Camden County College. See the High School Plus section (page 10) for more information.

**World History** – Grade 11

*Prerequisite: None*

*5 Credits/Full Year*

This is a survey course of World History from the High Middle Ages of Europe to the present. World History will provide students with the knowledge of the past required to understand the present and hypothesize about the future. The course will emphasize the causes and impacts of major Western and non-Western events which have shaped the contemporary world. Significant themes and events in history will be discussed as well as the impact of each on the development of the world. The contributions of important people in history will also be stressed.

**World History CP** – Grade 11

*Prerequisite: By Recommendation*

*5 Credits/Full Year*

This is a survey course of World History from the High Middle Ages of Europe to the present. World History will provide students with the knowledge of the past required to understand the present and hypothesize about the future. The course will emphasize the causes and impacts of major Western and non-Western events which have shaped the contemporary world. Significant themes and events in history will be discussed as well as the impact of each on the development of the world. The contributions of important people in history will also be stressed.

**World History Honors** – Grade 11

*Prerequisite: US History II Honors or AP US History Final Grade: 91*

*US History II Final Grade: 95*

*5 Credits/Full Year*

This is a survey course of World History from the High Middle Ages of Europe to the present. World History will provide students with the knowledge of the past required to understand the present and hypothesize about the future. The course will emphasize the causes and impacts of major Western and non-Western events which have shaped the contemporary world. Significant themes and events in history will be discussed as well as the impact of each on the development of the world. The contributions of important people in history will also be stressed.

**History Through Film** – Grades 10, 11, 12

*Prerequisite: None*

*5 Credits/Full Year*

History Through Film is a year-long course designed to expose students to an alternative approach to the study and analysis of history through the eyes of films, documentaries, music, political cartoons, and photography. Students will be expected to analyze and reflect on the various media via written response, Socratic Seminars, point/counterpoint discussions, and debates.

**History of Sports and the Worth of the Game** – Grades 11, 12

*Prerequisite: English I*

*5 Credits/Full Year*

This course will focus on the role sports have played and continue to play in American life. The course will cover a time period from the mid-nineteenth century to present day. Various activities will enable students to acquire skills to analyze how sports have shaped our past and present heritage here in the United States. Focus will be on sports as a reflection of our social, political, cultural and economic make-up and its ability to affect and shape our institutions. Particular attention will be given to social class, race, ethnicity, gender, community, technology, as well as commercialization and the media. An emphasis will be placed on the development of critical thinking and analysis with the opportunity for real life evaluation of modern sports.

**Current Trends/World Economics** – Grades 10, 11, 12

*Prerequisite: None*

*5 Credits/Full Year*

Students who take this leveled course will experience one semester of Current Trends in the Humanities and one semester of World Economics. Current Trends, which will be offered during the first semester, will cover contemporary culture including politics, religion, art and science. In the second semester course, World Economics, students will earn the 2.5 credits that are required in Economics to fulfill the graduation mandate. World Economics will include the study of economic theory and its impact on various aspects of the world in which we live.

**Sociology / Criminal Law** – Grades 10, 11, 12

*Prerequisite: None*

*5 Credits/Full Year*

Students who take this course will experience one semester of Sociology and one semester of Criminal Law. Sociology, which will be offered during the first semester, will focus on the study of the way in which human beings live with each other and how they

interact. The second semester course, Criminal Law, introduces students to the way in which public behavior is monitored by law enforcement. Students will be educated about their civil liberties and the consequences for unaccepted behaviors.

# Visual and Performing Arts



It is the desire of the staff of the Visual and Performing Arts Department to provide the students of Audubon High School with a means to explore and express the talents of those who are interested in art and music. It is also our position that those who wish to have an experience in the creative process may do so as a part of their high school experience. All that is necessary is a sincere desire to work and a creative imagination. Such studies and activities will provide you with a means to improve and enjoy life - for the rest of your life.

## Art Department

The art courses offered in Audubon High School are directed to the students who would like to expand their interest in the art field. A sincere desire to be creative should accompany each student while taking these courses. Beginning courses will require a research paper and all students will be asked to supplement their class work with outside research. Art History and Appreciation will be reviewed in each area of study.

### Course Progression:

7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
Elements of Art	Elements II Studio *	- Art I * - Trash*	- Advanced 2-D/3-D *	- Advanced 2-D/3-D *	- Portfolio Prep *
	Elements of Art	- Art I * - Trash *	- Advanced 2-D/3-D *	- Advanced 2-D/3-D *	- Portfolio Prep *
		Intro to Art	- Art I * - Trash *	- Advanced 2-D/3-D *	- Advanced 2-D/3-D * - Portfolio Prep *
			Intro to Art	- Art I * - Trash *	- Advanced Art * - Portfolio Prep *
				Intro to Art	- Art I * - Trash *
					Intro to Art

\*Pre-requisite

\*\*By recommendation

### Elements of Art – Grades 7, 8

*Prerequisite: None*

*5 Credits/Full Year*

This course enables 7th and 8th graders who have a real interest in Art to travel through and thoroughly focus on the Elements of Art (line, shape, form, value, color, space, and texture). Students will have the opportunity to explore the Elements using a broad variety of media (pencil, ink, paint, clay, etc.) to find what they enjoy and excel at. Students will gain insights into the Art world through both Art History and Modern Art techniques and applications. The course will orient students to the care and use of materials and the development of their evaluative processes. This course will ensure students have the prerequisite knowledge needed to fast-track into higher level courses for their High School Art experience.

### Elements of Art II – Grade 8

*Prerequisite: Elements of Art and teacher recommendation*

*5 Credits/Full Year*

This course provides an area of creative experience for the student who wishes to develop his/her talent in at least four creative areas of their choice. The student will utilize the knowledge gained from art history, materials, and techniques learned in Elements of Art. The student must set his/her own deadlines and complete all preliminary work for each project. This course is the one to choose if your interest is to work independently, come up with your own project ideas, and if you have a desire to create and express yourself visually.

### Introduction to Art – Grades 9, 10, 11, 12

*Prerequisite: None*

*5 Credits/Full Year*

This course enables students in 9th-12th grade to explore the basics of Art. Students begin by differentiating between 2-D and 3-D Media, then travel through the Elements of Art (line, shape, form, value, color, space, and texture). Students will dive into the Art world through both Art History and Modern Art techniques, applications, and causes. The course will orient students to the care and use of materials and the development of their evaluative processes. This course will ensure students have the prerequisite knowledge needed to jump into higher level courses if they desire more Art in their High School experience.

**Trash to Treasure: Reclaiming Our Environment** – Grades 9,10,11,12

*Prerequisite: Elements of Art I or Intro to Art*

*5 Credits/Full Year*

This is an independent and project-oriented course rooted on the idea of reclaiming or reusing things around us which are normally discarded. The course will give students an opportunity to use available found objects and recycled items to make a unique project plan, express their own ideas, and give their artwork a purpose. Something which is old or used, can be turned into something fresh and beautiful. Students taking this course should have a desire to work independently and be creative with unique media, as well as a willingness to research and experiment with new techniques.

**Art and Design 1** – Grades 9, 10, 11, 12

*Prerequisite: 9<sup>th</sup> Grade = Elements or Elements II; 10<sup>th</sup>-12<sup>th</sup> Grade = Intro to Art*

*5 Credits/Full Year*

This is a mid-level course which covers the fundamentals of two-dimensional design, drawing, painting, printmaking, ceramics, advertising design, mixed media, and art history. The students' prior knowledge of the Elements and Principles of Art, presented at earlier levels of learning, will be reinforced through an exploratory and experimental approach to art. The course will further orient students to the art room, art facilities, supplies, tools of the artist and art in the world today. Development of each student's visual perception (ability to see, observe, and translate creatively) will be stressed. Students taking this course should have a real interest in art, a desire to be creative, and a willingness to express their imagination. Art and Design I is a prerequisite for any of the other advanced Art courses.

**3-D Art** – Grades 10, 11, 12

*Prerequisite: Art and Design I and/or Trash to Treasure*

*5 Credits/Full*

*Year*

Advanced 3-D follows Art I in progression and allows students to work in a more independent, studio-based environment. Students will focus on 3-Dimensional materials (clay, plaster, metals, mixed media, etc.), pushing their understanding further. Works done in Advanced 3-D will be portfolio ready for those moving on to Portfolio Prep.



**2-D Art** – Grades 10, 11, 12

*Prerequisite: Art and Design I and/or Trash to Treasure*

*5 Credits/Full*

*Year*

Advanced 2-D follows Art I in progression and allows students to work in a more independent, studio-based environment. Students will focus on 2-Dimensional materials (paint, pencil, charcoal, etc.), pushing their understanding further. Works done in Advanced 2-D will be portfolio ready for those moving on to Portfolio Prep.



**Advanced Art** – Grades 11, 12

*Prerequisite: Art and Design 1 and Art and Design 2*

*5 Credits/Full Year*

This course offers an advanced study of the principles and concepts that govern visual communication between the student and the world around him/her. Emphasis will be placed on fulfillment of portfolio requirements necessary for furthering the student's art education. This course offers an opportunity for the student to develop his/her talent in a specific area of art and design. The student is thereby given intensive work in at least six creative areas of expression ranging from illustration to ceramics. Students taking this course should be those who are interested in pursuing a career in art or have a serious interest in art.

**Portfolio Preparation** – Grade 12

*Prerequisite: At least 2 years of art courses*

*5 Credits/Full Year*

This course is designed to accommodate each individual student's requirements for application to college. The previous art created will be reviewed and expanded upon, along with life drawings in a variety of media (first and second marking periods). The third and fourth marking periods will focus on preparing the student for college through critiques, art-related terminology, project work and discussion. This course is the one to elect if you are planning to apply to a college/university for any art major which may include fine arts, graphic design, illustration, crafts, industrial design, or architecture.

**Music Department**

**JUNIOR HIGH BAND**

Instrumental organizations are among the most active groups in the school. Students involved in Junior High Band (Grades 7 and 8) are required to perform in the two major school concerts, along with other selected activities throughout the school year, such as possible concert band festivals at other schools, etc. Students will also be required to attend rotating instrumental music lessons and practice on their own. The student must have at least one year of previous experience with their instrument to participate. Beginners will only be accepted on approval by the Director. Students who play Woodwind, Brass, or Percussion instruments may join the Junior High Band.

Band members rehearse during the school day. In band rehearsal the student will continue to develop skills learned in prior years, as well as prepare concert music and learn ensemble skills, but most importantly, enjoy a regular musical ensemble experience daily.

### **JUNIOR HIGH CHORUS**

Students who are interested may participate in Junior High Chorus on the 7th & 8th grade levels. No previous singing experience is necessary in order to participate in this organization. The students will be given the basic foundations for good singing along with a study of musical notation and music history as it pertains to the compositions being studied. It is encouraged that students who are in 7th Grade Chorus also participate in 8th Grade.

The singers will have the opportunity of performing at the two major high school concerts, along with other selected outside activities. Students may be required to attend an evening rehearsal or two throughout the year.

Each student involved in this chorus will have the opportunity to study both on a group and individual basis. The elements of basic music theory and also the advanced principles of good choral singing will be discussed in depth. Students who show success and advancement in this course will automatically be accepted in the High School Concert Choir, without having to audition.

### **CONCERT CHOIR** – Grades 9, 10, 11, 12

The purpose of the Concert Choir is to present to the interested singer a complete and varied study of the best in music literature and an opportunity to develop performance skills. Compositions from all periods of time and of all styles will be studied in depth. Emphasis in rehearsals is placed upon the appropriate singing technique necessary for various music styles and the promotion of correct singing skills such as proper breathing, tone quality, and diction.

No previous singing experience is necessary for membership in the Choir; however, students are admitted to the course **ONLY AFTER AUDITIONING** or with prior approval from the instructor. Auditions are usually held during the months of March and April. Further information concerning auditions for membership in the organization is available from the Director of Choral Activities.

As part of the Concert Choir activities, students will be **EXPECTED** to perform in various concerts during the school year as well as attend extra rehearsals outside of regular school hours to prepare for such concerts.

Each Choir member will be required to take part in a vocal music lesson in a small group situation at least once per marking period. These lessons are a part of the Choral curriculum and are held in a class period other than the regular rehearsal period on a rotating basis. Progress in these lessons is part of the Concert Choir grade.

**\*\*\*Continued membership** in the Concert Choir from year to year is also by the **Director's approval only**, based on performance and progress shown by the student during the current school year.\*\*\*

### **SENIOR HIGH CONCERT BAND** – Grades 9, 10, 11, 12

Instrumental organizations at Audubon are among the most active groups in our school. Students involved in Senior High Concert Band are required to participate in several performances during the year, among them two concerts and graduation. Concert Band is open to students who play Woodwind, Brass, or Percussion instruments, and have had at least two years' experience on those instruments (which would be achieved as members of a junior high level band). Students who play piano (at least two years' experience) are also encouraged to join band as mallet percussionists. Beginners are only accepted in extreme cases (such as a need for that instrument) and must be approved by the Band Director.

Senior High Band members are involved in full and sectional band rehearsals during the regularly scheduled school day. In SH band, instrumental techniques such as intonation, phrasing, balance, and other aspects of ensemble playing are studied. Music literature of many various styles will be studied and performed. Students involved are required to practice on their own as well as participate in rotating instrumental music lessons (at least one per marking period) during the school day.

Continued membership in the Concert Band from year to year is contingent upon approval by the Director, and progress shown by the student throughout each year. The Director reserves the right to remove a student if he/she is not meeting the required expectations of the course.

Students are selected from Junior High Band or by an audition given by the Instrumental Director. Auditions are held in the spring. For further information, contact the Director of Instrumental Activities.

Students involved in Concert Band and instrumental activities participate in instrumental rotating lessons as part of their musical training. These lessons will give an in-depth study of the individual needs of their particular instrument as well as offer the opportunity to expand their playing abilities.

**Students are also strongly urged to participate in extra-curricular activities such as the Marching Band and Jazz Band, as they will further enhance their instrumental music education and provide great reward and enjoyment. Marching Band is open to students in grades 8-12 and meets from July to November after school. Jazz Band is open to students who play the sax, low brass, trumpet, percussion, piano, guitar, and bass and meets from January to May after school.**

**Percussion Ensemble** – Grades 8, 9, 10, 11, 12

*Co-requisite: Concert Band*

*5 Credits/Full Year*

Instrumental organizations at Audubon are among the most active groups in our school. The Percussion Ensemble Course is designed to offer student percussion members another practical experience in the playing of percussion instruments in a variety of chamber music settings. The concepts set forth in the curriculum – rhythm, articulation, technical development, music theory, listening and analysis, musical expression, and care and maintenance of equipment – are designed to be taught simultaneously throughout the school year. Varied repertoire provides students with the opportunity to work with many different types and styles of music, thus allowing them to be exposed to different expressive qualities, technical demands, etc. Students will continue to address these concepts throughout the school year in ways that engage them and allow them to experiment and scrutinize how these concepts are evident in different styles of music. Performance opportunities will most likely occur during the winter and spring concerts, as well as other possible performances as they arise.

Students who desire to take this course **MUST** be registered for Pd. 0 Senior High Concert Band as well. Each student must have previous concert band experience (at least one year) and be able to read music at the appropriate high school level. Percussion members in the concert band are encouraged to register for the course, but Woodwind and Brass members are also invited if they have a desire to learn and play percussion instruments in an ensemble setting.

**Appreciation of Music in Movies & TV** – Grades 10, 11, 12

*Prerequisite: None*

*5 Credits/Full Year*

Film composers play an integral part in the film making process. This course examines music created for film - (both movies and TV shows) – and helps students establish an appreciation for the art of music created for film. Students will study the composers and directors, and understand the impact on the music's tone, emotion, subtext, and style. Class will be spent watching films and discussing the scores and their composers. Some films we will study include Jurassic Park, Star Wars, The Lion King, and Jaws.



# World Languages

The main objective for the study of a world language is to foster in students an awareness of the nature of language and to promote open-minded attitudes toward other cultures. By doing this, students will better understand their own language and will cultivate a sense of humanity, which is needed by the citizens of our contemporary world.

## **French I** – Grades 8, 9, 10, 11, 12

*Prerequisite:*

*Grade 8: Teacher recommendation and Final Grade of 88 in Honors Language Arts 7*

*Grades 9-12 None*

*5 Credits/Full Year*

Students who choose to pursue French I will embark on a study of the language as well as the rich cultures of the French-speaking world. Students entering French I should have a command of the following concepts: nouns, adjectives, verbs, pronouns, adverbs, sentence structure and paragraph structure.

French I students are exposed to the French speaking areas of the world and course content develops the skills of listening, speaking, reading and writing with emphasis on communication in the target language and mastery of core vocabulary and grammatical structures at a novice level. Successful students in this introductory course will be able to engage in simple conversations describing their interests, classes, family, and activities. They will be able to write small compositions and dialogues pertaining to these same topics as well as read and hear about the daily lives of young francophone students.

Students will exercise all four modes of communication in class via different activities that will include and not be limited to audio files of dialogues/songs, interpreting and analyzing videos of authentic speakers interacting, online practice, answering spoken and written questions, performing dialogues, reading writing, and listening activities from the online textbook series and as well as working with partners in class on speaking exercises.

Our French program encourages participation in the French Club. We attend cultural events outside of class and meet regularly to celebrate various Francophone traditions and culture.

## **French II** – Grades 9, 10, 11, 12

*Prerequisite: French I & Teacher Recommendation & Final Grade: C*

*5 Credits/Full Year*

Students entering this course should have knowledge of present-tense verb conjugations, noun/adjective agreement, definite and indefinite articles, and thematic vocabulary presented in French I. Students should be able to write a brief paragraph on a given topic (description of yourself and your surroundings, school, and weekend activities) and comfortably answer basic questions orally in French.

In French II, students are further exposed to the French speaking areas of the world and course content furthers the development of skills in listening, speaking, reading and writing. Emphasis is placed on expanded vocabulary development (e.g., home, family, school...); additional verb conjugations in the present tense and near future and expanded grammatical structures (e.g., possessive adjectives) within the context of French culture.

Students will exercise all four language skills in class via different activities that will include and not be limited to songs, videos of language situations, internet activities, answering spoken and written questions, performing dialogues, reading and writing exercises and working with partners in class on speaking exercises.

Our French program encourages participation in the French Club. We attend cultural events outside of class and meet regularly to celebrate various Francophone traditions and culture.

## **French III** – Grades 10, 11, 12

*Prerequisite: French II & Teacher Recommendation*

*5 Credits/Full Year*

Students entering French III should have a command of the following concepts: present tense verb conjugations (regular and irregular forms); regular and irregular verbs in the passé composé (formed both with avoir and être); articles; and all vocabulary presented in French I and French II. Students should also be able to write a brief paragraph in French on a given topic (e.g., What

did you do last weekend? What are your plans for the summer? Describe the last movie you saw.) and comfortably respond to questions orally in French.

In French III, students are exposed to the French speaking areas of the world and course content furthers the development of skills in listening, speaking, reading and writing. Emphasis is placed on expanded vocabulary development (e.g., home, family, school...); the verb conjugations in present, past, future, and expanded grammatical structures (e.g., object pronouns).

Students will exercise all four language skills in class via different activities that will include and not be limited to songs, videos of language situations, internet activities, answering spoken and written questions, performing dialogues, reading and writing exercises and working with partners in class on speaking exercises. Students will improve reading comprehension of longer, more challenging material.

Our French program encourages participation in the French Club. We attend cultural events outside of class and meet regularly to celebrate various Francophone traditions and culture.

\*French III is eligible for Dual Credit with Camden County College. See the High School Plus section (page 10) for more information.

#### **French IV**– Grades 11, 12

*Prerequisite: French III & Teacher Recommendation*

*5 Credits/Full Year*

This course stresses the improvement and refinement of all language skills: listening, speaking, reading, and writing. Additional grammatical structure is also introduced - future, conditional and subjunctive tenses.

The class is conducted as much as possible in French, with special emphasis on the spoken word and the expansion of vocabulary. Some French literature is read and discussed in depth. The reading selections represent excerpts from all types of literary genre such as: poetry, short stories, essays, plays and novels. Through reading and discussion, students are offered the opportunity to increase their fluency in the French language, increase their ability to read with understanding, gain greater insight into the structure of the language, and enhance their understanding of and appreciation for French speaking cultures.

Students will be required to read and summarize articles from a variety of sources and produce a written and oral presentation. They also summarize, compare, and critique the movies that we see in French.

Our French program encourages participation in the French Club. We attend cultural events outside of class and meet regularly to celebrate various Francophone traditions and culture.

\*French IV is eligible for Dual Credit with Camden County College. See the High School Plus section (page 10) for more information.

#### **French V** – Grade 12

*Prerequisite: French IV & Teacher Recommendation*

*5 Credits/Full Year*

The main objective of this course is to develop the students' communication skills in French. Students will achieve a higher level of ability in all four skills (reading, speaking, listening, and writing). They will demonstrate an understanding of the relationship between the perspectives of the cultures studied. Students will be exposed to a variety of authentic materials (art, music, poetry, articles, short stories, novels, film, etc.) to help them expand their knowledge and develop a deeper appreciation for French culture, language, history, and daily life. During this course it is imperative that the students hear, read, write and speak exclusively in French.

Our French program encourages participation in the French Club. We attend cultural events outside of class and meet regularly to celebrate various Francophone traditions and culture.

\*French V is eligible for Dual Credit with Camden County College. See the High School Plus section (page 10) for more information.

#### **AP French Language and Culture**– Grade 12

*Prerequisite: French IV & Teacher Recommendation*

*5 Credits/Full Year*

The AP course is designed as the fifth part of a five-year sequence. Students entering this course should have knowledge of thematic vocabulary and grammar presented in French I-IV.

The AP French Language course places an emphasis on correct pronunciation; listening comprehension; vocabulary development; verb conjugations in present, past, future, and conditional tenses, both in the subjunctive and indicative moods; and the composition of French essays on a variety of topics requiring critical thinking.

Students will be required to read and summarize articles from a variety of sources and produce a written and oral presentation. They also summarize, compare, and critique the movies that we see in French. Students will practice specific exercises required to succeed on the AP exam.

Outside of class, the student will complete exercises in advanced grammar and vocabulary in order to express themselves at a more sophisticated level; and write essays on a regular basis in the AP format. In general, the successful student will spend at least 30 minutes on work outside of class to prepare for the next class session.

AP French Language maintains a demanding pace. Students may receive college credit either by success on the AP French Language exam or by the ability to be placed into intermediate college French courses.

In AP French, students will exercise all four language skills in class via different activities that will include and not be limited to songs, videos of language situations, internet activities, answering spoken and written questions, performing dialogues, reading and writing exercises and working with partners in class on speaking exercises. Almost exclusive use of French occurs in this AP French Language course. Instruction and communication on the part of the teacher is almost exclusively in French, and the students are required to communicate in French. Students receive an oral participation grade based on their use of French in the classroom.

Our French program encourages participation in the French Club. We attend cultural events outside of class and meet regularly to celebrate various Francophone traditions and culture.

In order to receive AP weight for an AP course, students must earn an 83 or better in the course and take the corresponding AP exam in May. Students who earn an 83 or better but do not take the AP exam will receive honors weight for this course. See the Advanced Placement section (page 10) for additional information about the Advanced Placement program.

\*AP French is eligible for Dual Credit with Camden County College. See the High School Plus section (page 10) for more information.

### **World Spanish** – Grade 9

*Prerequisite: None*

*5 Credits/Full Year*

This course is designed to help students meet the world language graduation requirement. It focuses on the cultures and various uses of language in the countries where the languages are spoken. Students will communicate, understand, and interpret written and spoken language as well as participate in hands-on activities and projects that involve technology and real-life experiences. Placement will be by recommendation only

### **Spanish I** – Grades 8, 9, 10, 11, 12

*Prerequisite:*

*5 Credits/Full Year*

*Grade 8: Teacher Recommendation & Final Grade of 88 in Honors Language Arts 7*

*Grades 9 - 12: None*

In the first year of Spanish students become aware of the Spanish language via the basic skills of language development: listening, speaking, reading, and writing. The text is entitled Descubre. Within the text, the students are afforded the opportunity to develop vocabulary and initial grammatical concepts. There are several types of exercises (dialogues, group work, drills, videos, listening activities, etc.) to enhance the four skills. The learners are introduced to the culture and customs of the Spanish-speaking world, thereby learning the language as it is used in the Spanish speaking country.

### **Spanish II** – Grades 9, 10, 11, 12

*Prerequisite: Final Grade: 74 in Spanish I & Teacher Recommendation*

*5 Credits/Full Year*

Spanish II affords students the opportunity to enhance communication in the foreign language. The course employs basic grammatical skills mastered during Spanish I. Spanish II then progresses toward the objective of improving accuracy in language skills by way of vocabulary, advanced grammatical structures and increased usage of Spanish during the classroom experience. Basic composition is also introduced, and the textbook offers narratives of greater length for instruction in comprehension and foreign culture. The text offers a strong basis for language skill development, as students are then urged to participate independently and actively, developing fluency in language usage.

### **Spanish III** – Grades 10, 11, 12

*Prerequisite: Spanish II & Teacher Recommendation*

*5 Credits/Full Year*

EN ESTE CURSO SE HABLA ESPAÑOL.

Spanish III requires a greater understanding of Spanish, as well as the ability to apply previous knowledge. Spanish is used as much as possible, but English is still used, especially for explanation of grammatical concepts that students find difficult. The class is conducted almost entirely in Spanish, and students are guided to improve their fluency through active participation. Historical, geographical, and literary aspects of Spanish culture are also covered through the use of additional aides. Other texts consist of easy to read short stories and literature of the Spanish-speaking world adapted for the intermediate student. The text for this course is Ven Conmigo II which is accompanied by videos that allow the students to see and hear native speakers in their own countries.

Spanish III is eligible for Dual Credit with Camden County College. See the High School Plus section (page 10) for more information.

### **Spanish IV** – Grade 11, 12

*Prerequisite: Spanish III & Teacher Recommendation*

*5 Credits/Full Year*

EN ESTE CURSO SE HABLA ESPAÑOL

This course stresses the improvement and refinement of all language skills: listening, speaking, reading, and writing. The class is conducted as much as possible in Spanish, with special emphasis on the spoken word and the expansion of vocabulary. Spanish literature is read and discussed in depth. The reading selections represent all types of literary genre such as: poetry, short stories, essays, plays and novels. Through reading and discussion, students are offered the opportunity to increase their fluency in the Spanish language, increase their ability to read with understanding, gain greater insight into the structure of the language, and enhance their understanding of and appreciation for Spanish-speaking cultures.

Spanish IV is eligible for Dual Credit with Camden County College. See the High School Plus section (page 10) for more information.

**SPANISH V** – Grade 12

5 Credits/Full Year

*Prerequisite: Spanish III or ideally IV Final Grade 85 & Teacher Recommendation*

The main objective of this course is to develop student's communication skills in Spanish. Students will achieve a higher level of ability in all four skills (reading, speaking, listening, and writing). They will demonstrate an understanding of the relationship between the perspectives of the cultures studied. Students will be exposed to a variety of authentic materials (art, music, poetry, articles, short stories, novels, film, etc.) to help them expand their knowledge and develop a deeper appreciation for Spanish culture, language, history and daily life. During this course it is imperative that the students hear, read, write and speak exclusively in Spanish.

Spanish V is eligible for Dual Credit with Camden County College. See the High School Plus section (page 10) for more information.

# 7<sup>th</sup> Grade Cycle Courses

All 7th graders will be assigned to the following cycles:

## **ELA Academic Lab**

This course focuses on New Jersey Student Learning Reading Standards (R.1, R.2, R.4). Students will read fiction and nonfiction pieces. Topics include inferences, main idea, theme, figurative language, and vocabulary study. Basic grammar concepts will be introduced. A brief poetry unit will be included. Overall, students will learn a variety of strategies to help them improve reading comprehension and to ensure their success as readers.

## **French**

As part of the 7th grade cycle program, students will take one marking period of French. In this course they will learn basic French grammar and vocabulary and become acquainted with familiar expressions and dialogue useful with family and friends in the home, in the marketplace or in a restaurant. Topics will include greetings and farewells; family and friends; food; seasons; colors and numbers.

## **Information Literacy**

This course is an introduction to the principles, concepts, and practices of information literacy, including the critical thinking skills necessary to identify, evaluate, and use a variety of types and formats of potential sources of information effectively. Critical aspects of information use including privacy practices, intellectual freedom, and educational fair use are discussed to help students to practice positive digital citizenship. Students are encouraged to Inquire, Collaborate, Evaluate, and Explore as they work with information. Emphasis is placed on properly citing sources using MLA format to avoid plagiarism.

## **Math Academic Lab**

The 7th Grade Math Academic Lab is an activity-based class that includes but is not limited to:

Exploration of the characteristics of 2D and 3D Geometric shapes including:

- Identifying 2D shapes and 3D solids by angles and sides.
- Measuring and constructing 2D shapes with a protractor.
- Calculating the measure of missing angles in 2D shapes.
- Calculating the area and perimeter of 2D shapes.
- Drawing 3D shapes with isometric dot paper.
- Calculating the surface area and volume of 3D prisms.
- Building 3D shapes and calculating their surface area and volume.
- Identifying the cross sections of 3D solids.

Calculating the probability of events occurring including theoretical and experimental probabilities.

Calculating the number of possible outcomes for a given situation by applying the counting principle.

## **Spanish**

As part of the 7th grade cycle program, students will take one cycle (*approximately 29 days*) of Spanish. In this course they will learn basic Spanish grammar and vocabulary and become acquainted with familiar expressions and dialogue useful with family and friends in the home, in the marketplace or in a restaurant. Topics include, but are not limited to greetings, farewells, numbers 0 - 100, days, months, seasons, and weather.

## **Technology: Robotics**

This course is designed to introduce the students to the basics of robotics. A LEGO robotics kit will be used to aid students in problem solving activities. The students will design and build their robots in achieving goals.

\*Cycle classes will be graded A-F like other courses in the school.