

# GREAT VALLEY HIGH SCHOOL

## PROGRAM OF STUDIES

### 2021-2022



### **SCHEDULING TIMELINE**

#### **January–February**

- Overview of process; distribution of scheduling information/instructions
- Counselors assist eighth-grade students with course selection
- Counseling department disseminates “Transition to High School” information to parents
- Teachers discuss course recommendations individually with all students
- Teachers enter course recommendations for core subjects

#### **March–May**

- Students complete online course selection
- Parents review online course selection
- Counselors review online requests for credit requirements
- Master schedule of classes and staff assignments developed

#### **May–June**

- List of core classes distributed to students for review

#### **Late August–September**

- Eighth grade and new student orientation at GVHS
- Schedules posted online

### **SCHEDULING PROCEDURES**

*General information and instructions regarding course selection and the online scheduling process is provided to all students and posted on the GVHS Counseling department’s website.*

<https://www.qvgsd.org/Domain/485>

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# Great Valley High School Program of Studies 2021-2022

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# Program of Studies 2021-2022

Selecting courses for the upcoming school year is an important decision-making process for students and families. The outcome determines the academic opportunities and experiences a student will have at Great Valley High School and creates the foundation of knowledge from which a student can pursue future academic and career goals. It is the goal of the Great Valley High School counselors and administrators to develop a balanced schedule for each student that meets his/her educational needs and interests. Students and parents are urged to work with school personnel in this planning activity.

Please carefully read the scheduling information in this document. Students who need individual help are encouraged to make an appointment with their counselor. The teachers and administrators at GVHS will also gladly assist you if you need additional information. The Counseling Office is open from 7:00 am to 3:30 pm daily. Students or parents requesting appointments should call 610-889-1918, ext. 21930.

**NOTE:** Some of the courses written in this document may not be offered every school year.

## Course and Credit Requirements for Graduation

The Great Valley School District and the State of Pennsylvania mandate a combination of required and elective courses for each student. To graduate from Great Valley High School, students must complete a **minimum of 24 credits** of course work including all required and elective courses. These requirements include:

Credit Requirements for Graduation	Minimum: 24 credits
<p><b>Required Course Credits:</b></p> <p>English..... 4 credits            Mathematics..... 3 credits            Science..... 3 credits            Social Studies..... 3 credits            Physical Education..... 1.5 credits            Health..... .75 credits</p>	<p><b>Elective Course Credit</b></p> <p>Total Elective Credits..... 8.75 credits            A minimum of 2.00 credits of the total Elective Credits must be in the area of Humanities.            *Arts and Humanities includes all electives with the exception of those in the business department.            **Requirements for students attending Technical College High School: Pickering Campus are different.</p>

## Promotion Requirements

Each year a student is expected to make reasonable progress toward graduation from high school in four years. Therefore, the requirements to be promoted each year to the next grade level are determined by the credits a student has earned.

Credits: 5.0 credits (earned in 9 <sup>th</sup> grade)	Promotion to:	Grade 10
11 credits (earned in 9 <sup>th</sup> & 10 <sup>th</sup> grade)		Grade 11
17 credits (earned in 9 <sup>th</sup> , 10 <sup>th</sup> , & 11 <sup>th</sup> grade)		Grade 12

# General Scheduling Information

- **Number Days/Course Cycles** – GVHS classes are organized on a six-day cycle. Each day is designated by the numbers 1, 2, 3, 4, 5, or 6. Most school days will consist of seven class periods lasting approximately 47 minutes.
  
- **Study Halls - Campus Privilege - Open Campus** – Students can schedule a maximum of six study halls per cycle. All ninth and tenth grade students will be assigned to study halls. Eleventh and twelfth grade students will be assigned to study halls unless they are eligible for “campus privilege.” “Open campus” status is only available for qualified seniors. More information on these options is available in the GVHS Student/Parent Handbook.
  
- **Instructional Levels** – Each course description in this document indicates the instructional level at which the course is presented. GVHS instructional levels are: Advanced Placement (AP), Honors (HRS), and Academic (AA).
  - **Academic A Courses** – Academic A courses are college prep level courses that follow a demanding curriculum to help students progress toward meeting the challenges of competitive college work. Students will learn through instruction and a variety of activities to improve critical thinking skills and develop independence both inside and outside of the classroom. These courses do not receive weighting when calculating GPA.
  
  - **Honors Courses** – Honors courses are more rigorous and academically demanding college prep level courses that require students to exhibit a greater degree of independence and motivation in their learning. These courses move at an accelerated pace and have enriched content.

Because Honors courses demand a higher level of effort and performance, they receive an additional .25 in the GPA calculation, meaning students who achieve grades of “C” or better are given an additional weight of .25 in the calculation used in determining GPA. For example, a grade of “B” in an honors course receives a quality point value of 3.25 instead of 3.0.

- **Advanced Placement Courses** – Advanced Placement (AP) courses are courses that follow a prescribed syllabus prepared by the College Board. **Students in these courses are expected to take the AP exams offered each spring in these subjects.** The fee for the AP examination is paid by the student. Financial assistance for this exam is available to students who qualify. Students who receive a score of “3” or higher on an AP examination are often awarded college credit or advanced standing at many colleges and universities. Because AP courses are more demanding and challenging, they receive an additional .50 in the GPA calculation, meaning students who achieve grades of “C” or better are given an additional weight of .50 in the calculation used in determining GPA. For example, a grade of “B” in an AP course receives a quality point value of 3.50 instead of 3.0.

# Typical Progression of Core Courses

The chart below presents the typical sequence of courses that Great Valley High School students select in the four core subject areas at each instructional level. It is offered as an example to assist students and parents in the scheduling process. **This chart should be used only as a guide. Students' course selections are not limited to the sequences shown.** Each student should consult with his/her teachers, counselor and parents to determine the appropriate courses and sequence that best supports his/her academic and career goals.

	Levels	Grade 9	Grade 10	Grade 11	Grade 12
<b>English</b> (Four Credits Required)	AP			AP Language & Composition	AP English Literature & Composition
	HRS	Honors Patterns of Human Experience	Honors Decisions, Consequences and Reflections	Honors The American Journey	Honors Modern Voices
	AA	Patterns of Human Experience	Decisions, Consequences and Reflections	The American Journey	Modern Voices
<b>Mathematics</b> (Three Credits Required)	AP			AP Calculus AB AP Calculus BC AP Computer Science A	Elective Choices
	HRS	Honors Geometry	Honors Algebra 2	Honors Pre-Calculus	Elective Choices
		Honors Algebra 2	Honors Pre-Calculus		
	AA	Algebra 1	Geometry	Algebra 2	Elective Choices
Elective Choices: AP Calculus AB, AP Calculus BC, AP Computer Science A, AP Computer Science Principles, AP Statistics, Matrices and Linear Algebra, Multivariable Calculus, Algebra 3/Trig, Financial Algebra, Calculus, Pre-Calculus, Statistics, Intro to College Math, and Intro to Programming Java and Python					
<b>Science</b> (Three Credits Required)	AP		AP Chemistry	AP Physics - Mechanics	Elective Choices
	HRS	Honors Biology	Honors Chemistry	Honors Physics	Elective Choices
	AA	Biology	Chemistry	Physics	Elective Choices
	Elective Choices: AP Biology, AP Chemistry, AP Environmental Science, AP Physics – Electricity and Magnetism, Biology 2 (AA, Honors), Chemistry 2 (AA, Honors), Physics 2 (AA, Honors), Environmental Science, and Physics of Sports				
<b>Social Studies</b> (Three Credits Required)	AP	AP Human Geography	AP United States History	AP United States Government & Politics	Elective Choices
	HRS	Honors World History	Honors United States History	Honors Gov. & Economics	Elective Choices
	AA	World History	United States History	Gov. & Economics	Elective Choices
	Elective Choices: AP European History, AP Economics, AP Psychology, 20 <sup>th</sup> Century European History, Criminal Justice, International Relations, and Introduction to Psychology				

# Great Valley High School Advanced Placement (AP) Course Offerings

The following AP courses are typically offered at Great Valley High School. Please see the individual course description for grade level eligibility, term offerings and prerequisites.

AP English: Language Composition	AP US History
AP English: Literature & Composition	AP World History (Independent Study)
AP Biology	AP Calculus (AB)
AP Chemistry	AP Calculus (BC)
AP Physics 1 (Mechanics)	AP Computer Science Principles
AP Physics 2 (Electricity and Magnetism)	AP Computer Science A
AP Environmental Science	AP Statistics
AP Comparative Government & Politics (Independent Study)	AP French Language and Culture
AP European History	AP German Language and Culture
AP Human Geography	AP Latin: Vergil and Caesar
AP Macroeconomics	AP Spanish Language
AP Microeconomics	AP Art: Drawing
AP Psychology	AP Art: 3D Design
AP US Government & Politics	AP Music Theory

## Dual Enrollment for College Credit Course Offerings

An asterisk will be placed by courses that may be offered as dual enrollment in the 2021-2022 school year. Courses taken as dual enrollment receive college credit only when the application with the college is accepted, fees are paid, and the course is successfully completed.

## Career Internship/Community Partnership Programs

In the era of staggering competition for college acceptance and employment, Great Valley High School has been on the forefront of offering students opportunities to develop their Intellectual Quotient (IQ), Emotional Quotient (EQ), and Networking Quotient (NQ) through career exploration, externships, and internships. It is important that students learn to develop each area of intelligence through academic and real-world experiences so they may become well-rounded individuals. This program is a complement to the students' education and helps them develop an understanding of the differences between "employment" and "employability". Students have options of finding their own placement. Below is a list of past/present opportunities our students have taken advantage of:

Chester County Chamber of Business and Industry  
Comcast  
Great Valley Community Organization (GVCO)  
Great Valley High School's "Child Development 5"  
Great Valley High School's "Work Release" program  
Great Valley School District's Community Service opportunities  
The Desmond Hotel & Conference Center  
The Philadelphia 76ers

# ART EDUCATION

## Foundations of Art

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

Foundations of Art introduces the student to the world of Visual Arts. Foundations explores the Principles of Design and Elements of Art and their application in drawing, painting, printmaking, and sculpture. This course will encourage creative and divergent thinking through a variety of media and experiences. Foundations of Art is a prerequisite for 2-D and 3-D art classes.

## 2-D Art Contract: Drawing, Painting, Printmaking

Grade(s): 10-12  
Period(s): 3

Credit(s): .25 or .5  
Term(s): 1 Sem. (F or S) or Year

Level: AA

Prerequisites: Successful completion/earned credit in *Foundations of Art* or senior status

This course is designed to provide students with the visual understanding and techniques of working with two-dimensional design. Students who complete this course will learn the fundamental principles of drawing, painting, and mixed media such as collage and printmaking. Students can use various media such as graphite, colored pencil, ink, acrylic and oil paints, watercolor, pastels, and linoleum. Both beginning and advanced students will be challenged at various levels of the curriculum. ***This course may be repeated.***

## 2-D Portfolio Art: Drawing, Painting, Printmaking

Grade(s): 10-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

Prerequisites: Successful completion/earned credit in *Foundations of Art*

2-D Studio Art is for the student interested in a challenging, in-depth art experience. This advanced studio course meets 3x per cycle for the full year and focuses on drawing, printmaking, and painting techniques. A variety of contemporary and traditional techniques and subject matter will be explored. It is expected that students taking this course are interested in developing skills and have an enthusiastic interest in art. Students will create a portfolio, i.e. an edited collection of artworks representative of their skills and strength in two-dimensional media. ***This course is a prerequisite for AP Studio Art: Drawing.***

## AP Studio Art: Drawing

Grade(s): 11-12  
Period(s): 6

Credit(s): 1  
Term(s): Year

Level: AP  
Fee: AP Exam

Prerequisites: Successful completion/earned credit in *2-D Art Contract*, *2-D Portfolio* and teacher recommendation

This course is for highly motivated students who have succeeded in previous art courses and who are willing to devote considerable time to the study of art and the development of higher-level skills. This class enables students to do college level work in studio art while still in high school. Students in *AP Art: Drawing* will develop a portfolio of work for evaluation by the College Board in May of the school year. The portfolio will demonstrate excellence in a broad range of drawing and painting media. Completion of the portfolio is required, totaling approximately 25-30 works of art. This course is recommended for students who plan to go on in the visual arts. To be successful, it is strongly recommended that students complete all of the assigned summer work.



# Foundations of Photography

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

The objective of this course is to give students an introduction to the technical skills necessary to use a Digital SLR camera, computers, equipment, and software as a means of visually communicating photographic ideas. There will be an emphasis on the creative use of the camera, design concepts such as composition, framing, light, and depth of field. In addition to attending photography class, students will be required to take photographs outside of class time off campus. A digital camera is highly recommended, though students will be able to borrow a department camera.

## Photography Contract

Grade(s): 10-12  
Period(s): 3

Credit(s): .25 or .5  
Term(s): 1 Sem. (F or S) or Year

Level: AA

Prerequisites: Successful completion/earned credit in *Foundations of Photography*

Expanding upon basic photographic tools and techniques introduced in *Foundations of Photography*, students in this course gain an understanding of advanced photographic techniques including controlled lighting as well as in-depth imaging software skills. Topics include advanced color management, advanced digital manipulation of images, and career exploration. All students must provide an adjustable camera capable of manual adjustments for shutter speeds as well as aperture. In addition to attending photography class, students will be required to take photographs outside of class time off campus. A digital camera is highly recommended, though students will be able to borrow a department camera. ***This course may be repeated.***

## 3-D Art Contract: Ceramics, Metals Jewelry, Sculpture

Grade(s): 10-12  
Period(s): 3

Credit(s): .25 or .5  
Term(s): 1 Sem. (F or S) or Year

Level: AA

Prerequisites: Successful completion/earned credit in *Foundations of Art or senior status*

This course is designed to provide students with the visual understanding and techniques of working with three-dimensional design. The principle media are: sculpture, ceramics, and jewelry. Students work with clay, metals, stone, glass, paper, wire, wax, plaster, and found objects. The course addresses the dynamics of the spatial aspect of an object and the creation of three-dimensional art forms. Studio levels insure that individual student progress follows a course of study beginning with the basics of each art form including design, technical skills, problem solving, art historical background, and critical thinking. ***This course may be repeated.***

## 3-D Portfolio Art: Ceramics, Metals Jewelry, Sculpture

Grade(s): 10-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

Prerequisites: Successful completion/earned credit in *3-D Art Contract*

3-D Portfolio Art is for the student interested in a challenging, in-depth art experience. This advanced studio course meets 3x per cycle for the full year and focuses on clay, metals, stone, plaster, wire, and mixed media three-dimensional materials. A variety of contemporary and traditional techniques and subject matter will be explored. It is expected that students taking this course are interested in developing skills and have an enthusiastic interest in art. Students will create a portfolio of their best work. Students will create a portfolio, i.e. an edited collection of artworks representative of their skills and strength in three-dimensional media. ***This course is a prerequisite for AP Studio Art: 3-D Design.***

## AP Studio Art: 3-D Design

Grade(s): 11-12

Credit(s): 1

Level: AP

Period(s): 6

Term(s): Year

Fee: AP Exam

Prerequisites: Successful completion/earned credit in *Foundations of Art*, *3-D Art Contract*, *3-D Portfolio Art* and teacher recommendation

This course is for highly motivated students who have succeeded in previous art courses and who are willing to devote considerable time to the study of art and the development of higher-level skills. This class enables students to do college level work in three-dimensional design. Students in AP Studio Art: 3-D Design will develop a sculptural portfolio of work for the College Board in May of the school year. The portfolio will demonstrate excellence in a broad range of 3-D media including traditional sculpture, ceramics, architectural models, three-dimensional fiber arts, and metals. Completion of each section of the portfolio is required, totaling approximately 25-30 works of art. Students are expected to take the AP Art Examination. To be successful, it is strongly recommended that students complete all of the assigned summer work.

## Foundations of Digital Media

Grade(s): 9-12

Credit(s): .5

Level: AA

Period(s): 3

Term(s): Year

Digital media has a significant broad and complex impact on society and culture. This course introduces the student to the basics of digital media centered around visual elements, principles of design, and the creative process. Digital media concepts are explored through exercises, critiques, and creative projects. Project areas include graphic design, advertising, animation, and web design. Students will also explore career opportunities related to the digital media field. Adobe Creative Suite software will be explored.

## Digital Media Contract

Grade(s): 10-12

Credit(s): .25 or .5

Level: AA

Period(s): 3

Term(s): 1 Sem. (F or S) or Year

Prerequisites: Successful completion/earned credit in *Foundations of Digital Media*

This course focuses on advanced digital media software and technology. Students will explore diverse media concepts such as advertising, animation, industrial design, product design, web design, and much more. Both beginning and advanced students will be challenged at various levels of the curriculum. ***This course may be repeated.***

# **BUSINESS EDUCATION**

## **Accounting**

Grade(s): 10-12  
Period(s): 6

Credit(s): 1  
Term(s): Year

Level: AA

This is a hands-on course in which students will use commercial level accounting software to record, analyze, interpret, and report financial information. This course is for students interested in pursuing a college major in business, as well as for those who will choose entrepreneurial ventures and small business ownership.

## **Honors Accounting**

Grade(s): 10-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: HRS

Honors Accounting is a weighted course designed to meet the needs of students who are interested in pursuing a career in business but may find it difficult to fit a full-year accounting course into their schedule. The course content and requirements are identical to the full-year Accounting course. Because the course will cover the equivalent of a full-year course in half the time, it is strongly recommended that students who elect to take this course are highly disciplined and self-motivated.

## **Banking**

Grade(s): 10-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

Prerequisite: Teacher recommendation, membership in FBLA or one business course

This course provides students an opportunity to work in the Central Treasury of the high school. Students prepare and receive deposits, count money, write checks, reconcile the bank account, and maintain customer accounts. ***This course may be repeated.***

## **Personal Finance**

Grade(s): 10-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

This course provides students with the personal finance skills necessary to manage income and expenditures. Students will learn about money management strategies, budgeting, the banking system, financial services/products, credit and FICO scores, student loans and FAFSA, trading and investment strategies, tax preparation, and insurance through hands-on activities and real-life financial decision making and problem solving.

## Career Internship Business

Grade(s): 12  
Period(s): 6-18

Credit(s): .25 or .5  
Term(s): 1 Sem. (F &/or S)

Level: AA

The Career Internship program in Business provides seniors with the opportunity to earn credit by working in area businesses and learning skills not taught in the regular school curriculum. Students can earn .25 credits for 30-59 hours of work per semester or .50 credits for 60+ hours of work per semester. Internship requirements include completed resume and application, student log, term paper or presentation, a written student reflection and evaluation of experiences, and an internship supervisor's evaluation. Students must provide their own transportation.

## Desmond Hotel Partnership

Grade(s): 10-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

This course is designed for students interested in the hospitality and service industries, as well as areas of management, accounting, marketing, and sales. In conjunction with personnel from the Desmond Hotel, located in the Great Valley Corporate Center, students research, plan, prepare, and present a banquet for approximately 300 members of the school community. Students are also involved with the Great Valley Community Arts Foundation, the Great Valley School District Holiday Senior Citizen Luncheon, and smaller in-house projects. ***This course may be repeated, subject to teacher approval.***

## Entrepreneurship

Grade(s): 10-12  
Period(s): 3

Credit(s): .25  
Term(s): 1 Sem. (F or S)

Level: AA

This course will help students understand what it is like to be an entrepreneur in today's competitive business environment. Students will learn the qualities and traits of successful entrepreneurs and gain an appreciation for owning and operating their own business. A computer-based simulation will be used to provide students with an in-depth, real-world experience in creating a comprehensive business plan. Students will participate in West Chester University's annual "Business Idea Pitch" which includes submitting a business plan, a "Fast-Pitch" competition, and a "Business Idea Pitch."

## Sports & Entertainment Marketing

Grade(s): 10-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

This course is an introduction to marketing and advertising through the lens of the Sports and Entertainment industry. Students focus on the promotion of sporting events and teams and the promotion of other products and services through sports. Through partnerships with local professional sports franchises, students learn beyond the classroom how businesses spark interest and earn profits from millions of consumers.

## Study/Success Skills

Grade(s): 9-12  
Period(s): 3

Credit(s): .25  
Term(s): 1 Sem. (F or S)

Level: AA

This course will assist high school students in preparing for and adapting to their learning environment. The class is designed to have students recognize the correlation between success and having a "growth mindset". Students will learn effective strategies to accelerate their individual growth and improve their learning in addition to identifying how effort translates into success.

# Work Release

Grade(s): 12

Credit(s): None

Level: AA

Period(s): 6-18

Term(s): 1 Sem. (F & S)

Prerequisite: Completed application, Counselor, Principal, and parent approval

The Work Release program is an option for twelfth grade students who have met most of their graduation requirements and will be eligible for a diploma if they attend school part of the day. Applications are available in the Counseling Office. Students accepted for Work Release are subject to the rules and regulations established by state and local agencies as well as Great Valley High School. Any student accepted in the Work Release program must show proof of employment at the beginning of the school year and every two weeks thereafter. The Work Release program is for senior students who have enough credits to graduate and wish to work during part of the school day for no credit. Students must provide their own transportation.



# English Eleven

## The American Journey

Grade(s): 11

Credit(s): 1

Level: AA, HRS

Period(s): 6

Term(s): Year

Prerequisite: AA: Successful completion/earned credit in *English Ten*

HRS: Successful completion/earned credit in *Honors English Ten* and the recommendation of their tenth-grade English teacher

The American Journey course focuses on the American literary tradition through a collection of units representing the diverse voices of our nation. Building upon knowledge and skills gained in tenth grade, the course challenges students to expand their approach to literature through rigorous whole class texts and independent study. Students will continue to grow as independent readers, where they will engage in collaboration focusing on the skills practiced and developed in class. Students in both levels will regularly compose fully developed analytical essays, and the course culminates in the completion of a critical literary analysis paper which argues a thesis developed by students and synthesizes material from primary and secondary texts. In addition, students will work on narrative writing which could support the college application process.

Honors level students are expected to maintain a high level of autonomy for their learning while keeping pace with the rigor of the course. The curriculum includes supplementary texts of increased difficulty, as well as increased expectations of depth, insight, and connection in discussions and in the composition of writing assignments. At the Academic level, teachers will guide the students through increasingly challenging texts with a fair amount of scaffolding to help them achieve understanding of the deep analysis of literature.

## AP English: Language and Composition

Grade(s): 11

Credit(s): 1

Level: AP

Period(s): 6

Term(s): Year

Fee: AP Exam

Prerequisite: Successful completion/earned credit in *Honors English Ten* and the recommendation of their tenth-grade English teacher

Advanced Placement English: Language and Composition is a course for students interested in the serious examination of rhetoric and in developing their writing skills, particularly in argument, rhetorical analysis, and synthesis. Students will continue to grow as independent readers, where they will engage in collaborative and class discussions focused on the skills practiced and developed in class. Students will closely examine a variety of non-fiction, analyzing rhetorical situation, style, argumentation, and organization. Additionally, students will continue to develop their research skills. Students will also have the opportunity to craft narrative writing in order to provide ideas for the college application essay. This course provides students with the academic equivalent of one year of composition at the university level. **Students in this course are expected to take the AP Language and Composition exam.**

# English Twelve

## **Modern Voices\***(DE)

Grade(s): 12  
Period(s): 6  
Prerequisite: AA: Successful completion/earned credit in *English Eleven*  
HRS: Successful completion/earned credit in *Honors English Eleven* and the recommendation of their eleventh-grade English teacher

Credit(s): 1  
Term(s): Year

Level: AA, HRS

Modern Voices reflects on the progressive visions found in literature across time through a survey of genres such as drama, short story, novels, and film. While the course will focus on diverse texts of the 20<sup>th</sup> and 21<sup>st</sup> century, it will also examine forward thinking visionaries throughout the centuries. Each quarter, students are given the opportunity to demonstrate their understanding of core concepts through cooperative projects, persuasive and analytical essays, and oral presentations. Students will also be encouraged to grow as independent readers and choose from lists of curated texts to read outside of class. Writing will be practiced and strengthened through a variety of assignments, including but not limited to: timed writing, literary critical essays, narrative memoirs, summaries, and book critiques. Students will continue to build and develop sound research practices.

In the Academic section, students are guided through the interpretation of fictional and nonfictional works and given direct instruction when needed. Honors level students are expected to maintain a high level of autonomy for their learning while keeping pace with the rigor of the course. While some of the texts are similar across the levels, some works differ because of text complexity. Both levels prepare students for collegiate writing; however, the Academic level focuses more on fundamental skills while Honors focuses more on stylistic aspects.

## **AP English: Literature & Composition**

Grade(s): 12  
Period(s): 6  
Prerequisite: Successful completion/earned credit in *AP English: Language & Composition*, or successful completion/earned credit in *Honors English Eleven* and the recommendation of their eleventh-grade English teacher.

Credit(s): 1  
Term(s): Year

Level: AP  
Fee: AP Exam

Advanced Placement English is a course for students who have demonstrated a high degree of competency in writing and literary analysis. Students will read and analyze a wide range of both classic and modern Literature. Further, students will grow as independent readers, where they will engage in collaboration focusing on the skills practiced and developed in class. The program provides students with the academic equivalent of one year of literature and composition at the university level. **Students in this course are expected to take the AP English Examination.**

# English Electives

## **Creative Writing\***(DE)

Grade(s): 10-12  
Period(s): 6

Credit(s): .5  
Term(s): 1 Sem. (F or S)

Level: AA

Creative Writing is a semester elective rooted in the principle that freedom and discipline are indispensable correlatives in writing creatively. Students explore various modes of creative expression in writing, specifically in genres of short fiction, poetry, or drama. Students are expected to acquire writing skills and experience in creative areas which they may not have explored previously. In addition, they are encouraged to write in the genres in which they are most comfortable. In all written work, primary emphasis is upon the process of writing. Students are encouraged to contribute to the literary magazine and to enter writing contests. **This course may be repeated.**



## Debate

Grade(s): 10-12  
Period(s): 6

Credit(s): .5  
Term(s): 1 Sem. (F or S)

Level: AA

Debate is a semester elective course designed to provide a means for students to argue in support of a position in a formal atmosphere. An examination of basic terminology of argumentation with explanations and examples will provide the background for the course. Activities will include researching and writing briefs that support a position and then presenting arguments orally in formal debate; this is done both individually and in pairs. There is a high expectation and need for collaboration. Additionally, each student will lead at least two discussions over the course of the semester, providing the topic and facilitating the ensuing discussion. Presentations are meant to foster strong public speaking, questioning, and listening skills. Activities will test the students' understanding of the technical aspects of supporting a position through interpretation, analysis, and evaluation of arguments. Feedback is through both peer and teacher evaluations, which help students learn to give and receive constructive criticism and use it to become a stronger participant.

## Exploring Diverse Voices

Grade(s): 10-12  
Period(s): 6

Credit(s): .5  
Term(s): 1 Sem. (F or S)

Level: AA

Building upon the diversity within the core English classes, this course will focus on literature from voices that are often marginalized. Through fiction and nonfiction, the students will begin to gain a greater understanding of the perspectives of different genders, sexuality, races, etc. Further, students will read to understand and combat perceived bias, stereotypes, and discrimination. Students will also explore minority voices and representations in the modern media.

## Yearbook

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

This course provides for continuity of leadership and skills in the planning and preparation of the yearbook. Because this course is essentially "hands-on", students are expected to contribute to the overall effort of producing the yearbook, including delivering copy, photos, and layouts on time and meeting submission deadlines. Students work in conjunction with the school's publisher and create the yearbook using current Adobe software. Production, communication, and technological skills will sharpen the student's eye upon his/her task, enabling the student to produce a yearbook which tells the story of Great Valley High School in a lively and accurate way. Primary evaluation will be based on individual contributions to the successful completion of the book. Students are encouraged to elect successive years in the course and have opportunities for leadership roles. ***This course may be repeated.***

## Popular Culture Studies

Grade(s): 10-12  
Period(s): 6

Credit(s): .5  
Term(s): 1 Sem. (F or S)

Level: AA

Popular Culture Studies gives students the opportunity to critically examine modern cultural, artistic, and entertainment forms. The course is designed to demonstrate that the critical skills taught and developed in other English classes can be applied not only to canonized works but also to the popular art forms we encounter in contemporary society. Students will reconsider their definition of literature to include alternative forms. To that end, course work will work to demystify literature, showing that many forms of popular entertainment are worth our attention and study. Works to be studied include films (documentary and dramatic), popular music, television, and critical essays. Course assessment will be based in large part on student writing and analysis, supporting the students' study of writing in the non-elective English program.

# Stories of the Holocaust

Grade(s): 10-12  
Period(s): 6

Credit(s): .5  
Term(s): 1 Sem. (F or S)

Level: AA

Stories of the Holocaust is a semester elective offered to students in tenth, eleventh, and twelfth grades. Because Holocaust literature encompasses a wide variety of literary genres, and because it derives from a true-to-life epic in human history, students will examine both basic truths about human nature and credible models of heroism and dignity through novels, short stories, drama, films, poetry, diaries, and memoirs. Students will be evaluated through essays, a variety of projects, and participation in class activities.

# Journalism

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

Prerequisite: Teacher recommendation

This course provides for continuity of leadership and skill in the planning and preparation of the school newspaper and results in a minimum of five publications during the school year. Because the course is essentially “hands-on” students are expected to contribute to the overall effort of production of the paper, including layout, page design, editing, photographing, copyrighting, selling advertising, and interviewing. Students will be introduced to sound principles of journalism in an atmosphere where budding journalists and knowledgeable “pros” have the opportunity to learn from each other. Students are encouraged to elect successive years in the course. ***This course may be repeated.***

# FAMILY & CONSUMER SCIENCE

## Child Development 1 & 2

Grade(s): 9-10  
Period(s): 6

Credit(s): 1  
Term(s): Year

Level: AA

Students in this course will gain knowledge of the cognitive, social, emotional, and physical development of children ages birth through five years. Those enrolled in the class will focus on how children grow and change while referencing the theories of core scientists and researchers. Students will use the Child Development Lab for action research and experiential, hands-on learning to demonstrate their understanding of the growth and development of young children. Students will begin to plan and present age-appropriate lessons to children aged four to five. This course is beneficial for students considering a career in early childhood/elementary education, social work, psychology, pediatric medicine, and parenting. Content will be differentiated accordingly to accommodate students who are repeating the course to reflect the knowledge gained in early childhood development.

For students enrolling in the Child Development courses, please be advised that regular school attendance is of utmost importance to ensure effective participation in the preschool program. Since students participating in the child development courses are role models for young children, positive behavior, language, and attitude are the expectations as are appropriate dress and appearance. Student discipline and attendance will be taken into consideration for course placement.

## Advanced Child Development

Grade(s): 11-12  
Period(s): 6

Credit(s): 1  
Term(s): Year

Level: AA

Prerequisite: Successful completion/earned credit in *Child Development 1 & 2*

Students in this course will expand upon the knowledge of the cognitive, social, emotional, and physical development of children ages birth through five years gained in Child Development 1 & 2. Students will focus on applying the work of core scientists and researchers whose theories are centered on how children grow and change. Those enrolled in the class will use the Child Development Lab for action research and experiential, hands-on learning to demonstrate their understanding of the growth and development of young children. Students will assist the classroom teacher with daily classroom routines, create and implement age-appropriate lessons, and foster the development of social skills, literacy, and mathematics in their actions with pre-school aged children. This course provides an in-depth exploration of early childhood for those interested in working with young children in any capacity. Content will be differentiated accordingly to accommodate students who are repeating the course to reflect the knowledge gained in early childhood development. ***This course may be repeated.***

## Career Internship/Child Development

Grade(s): 12  
Period(s): 6

Credit(s): 1  
Term(s): Year

Level: AA

Prerequisite: Successful completion/earned credit in *Child Development 1 and 2* and teacher recommendation

Students interested in elementary teaching or careers in early childhood programs will benefit from this course. Students will work closely with child development specialists at The Goddard School and Great Valley elementary schools. Students will be asked to participate in program planning, observations of preschool and elementary children, and planning and teaching lessons. They will also learn the business of running a day care center. The student's behavior, language, and attitude must be positive, and their dress and appearance must be appropriate to work with young children. Students are considered role models for the preschool program. Student discipline and attendance will be taken into consideration. Transportation must be provided by the student.

Students must have a driver's license and parking lot permit from Great Valley High School. Students must drive to their partnership individually.

## Culinary Arts and Cuisine

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

This course is designed to teach students the basics of culinary arts and allow them to develop the skills needed to independently plan and prepare meals. In the first semester of the course, students will learn basic culinary arts skills such as measuring, safety and sanitation, basic knife skills, culinary terminology, and different cooking methods, as well as nutrition and dietary needs. During the second semester of the course, students will learn about food traditions that originated in the United States as well as different countries throughout the world. Students will implement the skills they have learned in the first semester throughout the second semester and will prepare more advanced recipes while learning the cultural background of each recipe.

## Gourmet Cooking – Fall

Grade(s): 11-12  
Period(s): 3

Credit(s): .25  
Term(s): 1 Sem. (F)

Level: AA

Prerequisite: Successful completion/earned credit in *Culinary Arts* and teacher recommendation

Enter the exciting world of food as it relates to gourmet cooking and food presentation. Students will plan and prepare recipes of their choice as they take into consideration time management, use of equipment, cost and access of ingredients, and overall skill level of recipes. Students will also be challenged to not only prepare detailed recipes but will also be expected to make their courses more visually and aesthetically appealing. Lab experiences included in the Gourmet 1 curriculum include strawberry preserves and salsa, breakfast recipes, gourmet pizza, individual gingerbread houses, and themed buffets. ***This course may be repeated.***

## Gourmet Cooking – Spring

Grade(s): 11-12  
Period(s): 3

Credit(s): .25  
Term(s): 1 Sem. (S)

Level: AA

Prerequisite: Successful completion/earned credit in *Culinary Arts* and teacher recommendation

This course focuses on giving students the independence to be creative and innovative in the classroom and foods lab setting. Students will prepare a variety of challenging recipes and will also research and plan for recipes that they find appealing and interesting. The curriculum includes preparing French pastries such as eclairs, homemade pastas, molded and filled chocolates, replicate restaurant recipes, challenging international cuisines, as well as a full gourmet dinner. ***This course may be repeated.***

# HEALTH AND PHYSICAL EDUCATION

## Health 9

Grade(s): 9  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

Health 9 is required for all students and must be taken in 9<sup>th</sup> grade. The curriculum centers on a variety of health-related topics that encourage students to develop good habits. The course emphasizes health awareness and responsible decision making.

This course will be offered in a **blended learning approach**. A blended learning approach combines face-to-face class time with computer-mediated instruction. It also applies educational technologies using computer, video streaming, and other emerging electronic media. The course will be scheduled as a 2 period per cycle class, but it will entail outside, online learning activities equivalent to a 3 periods per cycle class. Students who elect to take this course should expect approximately two-thirds of the course to be delivered in a traditional model, with the other one-third being online.

## Health 11/12

Grade(s): 11 or 12  
Period(s): 3

Credit(s): .25  
Term(s): 1 Sem. (F or S)

Level: AA

Health 11/12 is required for all students and must be taken in 11<sup>th</sup> or 12<sup>th</sup> grade. The course will be reinforced by the Pennsylvania state standards for health education and will emphasize the following topics: healthy relationships, mental/emotional health and basic first aid (CPR). Content for this course will be delivered through classroom discussions and activities, research, and web-based learning activities.

## Stress Management

Grade(s): 9-12  
Period(s): 3

Credit(s): .25  
Term(s): 1 Sem. (F & S)

Level: AA

Participants will be introduced to the foundations of stress in terms of origin, management, reduction, and avoidance. Students will learn of tools and resources to use when encountering challenging levels of stress, the difference between eustress and distress, common sources of adolescent stressors, the role of communication in navigating stressful circumstances, implementing stress reduction techniques, and establishing a personal stress management plan. This class will follow a more classroom-based format with opportunities for lecture, open discussion, and light activity.

## Mind and Body Wellness

Grade(s): 9-12  
Period(s): 3

Credit(s): .25  
Term(s): 1 Sem. (F & S)

Level: AA

Participants of this course will learn breathing and yoga techniques that can lead to calmness, balance, focus, and ease of mind. A course like this can be beneficial to all people including males and females, performers and athletes, those living with anxiety, and anyone who is looking for a way to improve their overall well-being. Those who practice these techniques over time will reflect heightened activity in the brain associated with having a longer attention span, better communication and problem-solving skills, having a stronger immune system, developing a stronger sense of gratitude, and a general sense of being happy.

## Walking for Wellness

Grade(s): 9-12  
Period(s): 3

Credit(s): .25  
Term(s): 1 Sem. (F & S)

Level: AA

This class is designed as a self-paced student-centered class for those who would like to get out and walk within a safe environment. The class will take place inside/outside stressing the benefits of walking, stretching, and nutrition to increase personal wellbeing.

## **Sport Specific Training**

Grade(s): 9-12  
Period(s): 3

Credit(s): .25  
Term(s): 1 Sem. (F & S)

Level: AA

This individual, goal-based class is designed for students to collaborate with their teacher and/or coach to design and implement a program to improve their level of skills within the specified activity. Activities for this class can range from practicing specific skills to applying newly honed skills in a modified game with his/her peers. Students will be encouraged to implement programs that coincide with or help improve performance for any extracurricular sport or activity in which they participate. Students will also learn essential elements of fitness training to compliment participation in their selected activity.

## **Personal Fitness**

Grade(s): 9-12  
Period(s): 3

Credit(s): .25  
Term(s): 1 Sem. (F & S)

Level: AA

Students will learn the basic elements of personal fitness such as building muscular strength/endurance, flexibility, and cardiovascular fitness. These students will learn how to properly use various fitness equipment (free-weights, resistance machines, cardio machines) as well as central tenets to fitness such as form, volume, variation, progression, overload, and opposition. Also included in this instruction will be discussion around nutrition and rest to optimize exercise gains. Students with advanced knowledge or who have previously taken the course will begin to focus on individual goals utilizing the equipment in the fitness center. The student will design and pursue his/her individual goal using baseline data and a variety of equipment within the fitness center. Students will demonstrate growth or mastery of their goal through progress within a specially designed workout plan and use of a heart rate monitor.

## **General Physical Education**

Grade(s): 9-12  
Period(s): 3

Credit(s): .25  
Term(s): 1 Sem. (F & S)

Level: AA

This class is a combination of activities that focus on improvement of motor skills and collaboration while applying game strategies. Students will engage in soccer, flag football, ultimate Frisbee, kin ball, softball, floor hockey, volleyball, speedball, pickle ball, tennis, wall climbing, and fitness activities.

# MATHEMATICS

## Introduction to High School Math 1 and 2

Grade(s): 9-11  
Period(s): 6

Credit(s): 1  
Term(s): Year

Level: AA

This course is designed to prepare students for the study of algebra. Topics may include numbers and operations, including integers, fractions, and decimals; the use of order of operations to evaluate numerical and variable expressions; translating words into variable expressions; ratios, rates, and proportions; linear equations and inequalities; writing linear equations and graphing lines in the coordinate plane; absolute value equations and inequalities; and linear systems.

**Note: This course is not approved by the NCAA Clearinghouse. This only affects college bound students who plan to play a Division I or II sport in college or university. Division III sports and college bound students who do not plan to participate in sports during college are not subject to the NCAA Clearinghouse requirement.**

## Algebra 1

Grade(s): 9  
Period(s): 6

Credit(s): 1  
Term(s): Year

Level: AA

Prerequisite: Successful completion/earned credit in Course 3 in Middle School

In Algebra 1, students build on the descriptive statistics, expressions and equations, and functions work first encountered in the middle grades while using more formal reasoning and precise language. Topics may include one- and two-variable statistics; linear equalities, inequalities, and systems; linear, absolute-value, piecewise, exponential, and quadratic functions; and quadratic equations. Additional topics may be included.

## Algebra 1 Lab

Grade(s): 9  
Period(s): 3

Credit(s): .25  
Term(s): Sem. (F and/or S)

Level: AA

Prerequisite: Teacher recommendation only

This course is designed for students who need additional support in Algebra 1. Students will receive classroom instruction and individual assistance with Algebra 1 skills.

## Geometry

Grade(s): 9-12  
Period(s): 6

Credit(s): 1  
Term(s): Year

Level: AA, HRS

Prerequisite: AA: Successful completion/earned credit in *Algebra 1*  
HRS: (1) Successful completion/earned credit in *Algebra 1* in Grade 9 and teacher recommendation or  
(2) Successful completion/earned credit in *Algebra 1* in Grade 8 and teacher recommendation

In the first several units, students practice generating conjectures and observations, gradually building up to formal proof. Students build on their middle school study of transformations of figures, using transformation-based definitions of congruence and similarity. They extend their understanding of similarity through study of right triangle trigonometry. Additional topics include solid geometry and coordinate geometry, as well as analysis of circles. The year ends with an extension of earlier learning about probability. Additional topics may be included.

## Algebra 2

Grade(s): 9-12

Credit(s): 1

Level: AA, HRS

Period(s): 6

Term(s): Year

Prerequisite: AA: Successful completion/earned credit in *Geometry*

HRS: (1) Successful completion/earned credit in *Honors Geometry, Algebra 1*, and teacher recommendation or

(2) Successful completion/earned credit in *Geometry and Algebra 1* and teacher recommendation

In Algebra 2, students extend the algebra and function work done in Algebra 1. Topics may include sequences and series; exponential, quadratic, polynomial, rational, logarithmic, and trigonometric functions; complex numbers and rational exponents; and statistical inferences. Additional topics may be included.

## Algebra 2 Lab

Grade(s): 10-12

Credit(s): .25

Level: AA

Period(s): 3

Term(s): Sem. (F and/or S)

Prerequisite: Teacher recommendation only

This course is designed for students who need additional support in Algebra 2. Students will receive classroom instruction and individual assistance with Algebra 2 skills.

## Algebra 3/Trigonometry

Grade(s): 11-12

Credit(s): 1

Level: AA

Period(s): 6

Term(s): Year

Prerequisite: Successful completion/earned credit in *Algebra 2* and teacher recommendation

Algebra 3/Trigonometry is designed for the student who wishes to continue their Algebra study and strengthen their skill in preparation for college mathematics but may have had difficulty in Algebra 2. The course analyzes functions of various types including quadratic, polynomial, rational, exponential, and logarithmic. Systems of equations and matrices are also explored. Topics in trigonometry include trigonometric functions, the unit circle, identities, and solving trig equations. Scientific calculators are used throughout the course.

## Financial Algebra

Grade(s): 11-12

Credit(s): 1

Level: AA

Period(s): 6

Term(s): Year

Prerequisite: Successful completion/earned credit in *Algebra 2* and teacher recommendation

Financial Algebra is designed to develop a strong foundation in logical thinking and problem solving that will enable students to make informed decisions regarding matters of money and finance in their daily lives. This course furthers the development of functions, which include linear, exponential, piece-wise, quadratics, and step functions. Other topics studied may include measures of center and spread, graphical representations of data, principles of finance economics, amortization, supply and demand, revenue and profit functions, loans, compound interest and continuous interest, credit card debt, car ownership, and budgets.

**Note:** This course is in the process for NCAA approval. If it is not approved, it will impact students planning to play a Division I or Division II sport.



## Pre-Calculus

Grade(s): 10-12

Credit(s): 1

Level: AA, HRS

Period(s): 6

Term(s): Year

Prerequisite: AA: Successful completion/earned credit in *Algebra 2* and teacher recommendation

HRS: (1) Successful completion/earned credit in *Honors Algebra 2* and teacher recommendation or

(2) Successful completion/earned credit in *Algebra 2* and teacher recommendation

Students will develop a deep understanding of mathematical concepts including:

- the ability to manipulate algebraic and trigonometric functions,
- how functions relate to each other,
- how functions model the physical world, and
- the ability to explain original ideas and collaborate as it relates to algebraic and trigonometric functions.

Students will enjoy the challenge of higher-level problems, generate excitement for the study of math, and see how the topics within this course relate to the larger field of mathematics. Some of these topics will be explored in greater depth in the honors course.

## Calculus\*(DE)

Grade(s): 11-12

Credit(s): 1

Level: AA

Period(s): 6

Term(s): Year

Prerequisite: Successful completion/earned credit in *Pre-Calculus* with teacher recommendation

This course is a review of Pre-Calculus and the beginning of a course in Calculus. It is not meant to replace College Calculus (AP Calculus AB or AP Calculus BC). Pre-Calculus topics include functions and their graphs, polynomial and rational functions, exponential and logarithmic functions, and a review of trigonometry. Topics in differential calculus include limits, derivatives, and applications of differentiation. An introduction to integral calculus is also included.

## AP Calculus (AB)

Grade(s): 11-12

Credit(s): 1

Level: AP

Period(s): 6

Term(s): Year

Fee: AP Exam

Prerequisite: Successful completion/earned credit in *Honors Pre-Calculus*, *Pre-Calculus*, or *Calculus* as well as teacher recommendation

This course is equivalent to the first semester in undergraduate Calculus. The course covers limits and continuity, derivatives and applications of differentiation, and integration and applications of the definite integral. **Students in this course are expected to take the AP Calculus Exam.**

## AP Calculus (BC)

Grade(s): 11-12

Credit(s): 1

Level: AP

Period(s): 6

Term(s): Year

Fee: AP Exam

Prerequisite: Successful completion/earned credit in *Honors Pre-Calculus* or *AB Calculus*

This course is the equivalent to the first two semesters in undergraduate Calculus. Derivatives and integrals of both algebraic and transcendental functions as well as their applications are covered. Other topics include rectilinear motion, area under polar curves, vectors, convergence and divergence of sequences and series. **Students in this course are expected to take the AP Calculus Exam.**

## Introduction to Matrices and Linear Algebra\*(DE)

Grade(s): 11-12

Credit(s): 1

Level: AP

Period(s): 6

Term(s): Year

Prerequisite: Successful completion/earned credit in *AP Calculus AB* or *BC* with a 4 or 5 on the *AP Calculus AB* exam or the AB sub-score on the BC exam.

This course prepares students for further studies in the areas of mathematics, engineering, computer science, physics, and related fields. The principal topics of the course include vectors, matrices, determinants, linear transformations, eigenvalues and eigenvectors, and selected applications.

## Multivariable Calculus

Grade(s): 11-12

Credit(s): 1

Level: AP

Period(s): 6

Term(s): Year

Prerequisite: Successful completion/earned credit in *AP Calculus BC* or a 4 or 5 on the *AP Calculus BC* exam

This course is a continuation of the calculus sequence. The first part of the course covers vectors and multivariable calculus including functions of several variables, multiple integration, and vector analysis in 2 and 3-space. Advanced applications will also be considered and may include selected topics from number theory; matrix algebra; modeling applications used in business, science, and economics; or differential equations. **Note: Multivariable Calculus is offered in alternating years from “Introduction to Matrices and Linear Algebra” and will not be available for the 2021-2022 school year.**

## AP Statistics\*<sub>(DE)</sub>

Grade(s): 12

Credit(s): 1

Level: AP

Period(s): 6

Term(s): Year

Fee: AP Exam

Prerequisite: Successful completion/earned credit in *Honors Pre-Calculus*, *Calculus*, or *Pre-Calculus* and teacher recommendation

This course teaches methods of descriptive and inferential statistics. The purpose is to develop student literacy in the application of statistics to many disciplines. Both branches of statistics, descriptive and inferential, will be emphasized. In addition to the text topics, requirements will include reporting on a research article and creating a complete statistical study. Topics include data collection and description, hypothesis testing, correlation and regression, the analysis of variance, and contingency tables (chi square).

## Statistics\*<sub>(DE)</sub>

Grade(s): 12

Credit(s): 1

Level: AA

Period(s): 6

Term(s): Year

Prerequisite: Successful completion/earned credit in *Algebra 2* and teacher recommendation

This course is designed for students who wish to gain an introduction to statistical concepts and their use in critical thinking. Students will gain an understanding of the applicability of statistics, the methods and procedures of proper data analysis, and analysis of their results in context. The course includes topics in data analysis, normal models, linear regression, curve fitting, data collection, probability and inference concepts.

## Introduction to College Mathematics

Grade(s): 12

Credit(s): 1

Level: AA

Period(s): 6

Term(s): Year

Prerequisite: Successful completion/earned credit in *Algebra 2*

This course is designed for students who wish to strengthen their arithmetic skills and introductory algebra skills. Introductory algebra topics include: add, subtract, multiply, and divide signed numbers and factoring polynomials, simplify, multiply, and divide rational expressions and square roots, linear equations, linear inequalities, graphing linear equations, and polynomials. **Note:** This course is not approved by the NCAA Clearinghouse. This only affects college bound students who plan to play a Division I or II sport in college or university. Division III sports and college bound students who do not plan to participate in sports during college are not subject to the NCAA Clearinghouse requirement.

## Introduction to Computer Programming Java\*<sub>(DE)</sub>

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

This course is recommended for students planning to take AP Computer Science.

This is an introductory course in computer science programming. Students taking this course are not expected to have any prior programming experience. It is recommended for students with an interest in computer science. The focus of the course is on problem analysis and the development of algorithms and computer programs in a modern high-level language. The course is to provide students with introductory programming fundamentals such as: compiling and running Java, statements and control flow, functional abstraction, and arrays. **Note:** This course is not approved by the NCAA Clearinghouse. This only affects college bound students who plan to play a Division I or II sport in college or university. Division III sports and college bound students who do not plan to participate in sports during college are not subject to the NCAA Clearinghouse requirement.

## Introduction to Computer Programming Python\*<sub>(DE)</sub>

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

Prerequisite: No prerequisites, some familiarity with computers in general assumed of all students

This is an introduction course in computer science programming. Students taking this course are not expected to have any prior programming experience. It is recommended for students with an interest in computer science. The course is designed to teach students with no programming experience how to analyze and solve problems using the Python programming language (version 3.x). The course begins with an overview of the inner-working of modern computers to illustrate that computers, while quite intricate, are merely machines. With this in mind, the rest of the course will focus on helping the students learn to use these machines as problem solving tools through the use of Python. **Note:** This course is not approved by the NCAA Clearinghouse. This only affects college bound students who plan to play a Division I or II sport in college or university. Division III sports and college bound students who do not plan to participate in sports during college are not subject to the NCAA Clearinghouse requirement.

## AP Computer Science Principles

Grade(s): 9-12  
Period(s): 6

Credit(s): 1  
Term(s): Year

Level: AP  
Fee: AP Exam

AP Computer Science Principles is a full-year course that introduces students to the foundations of modern computing. The course is designed to be equivalent to a first semester introductory college course in computing. This course uses the AP College Board endorsed Code.org curriculum that addresses topics including programming, algorithms, the Internet, big data, digital privacy and security, and the societal impacts of computing. Students will learn the basics of JavaScript through a web-based application. This course should be taken as a precursor to AP Computer Science A, and it is strongly recommended for those students who have already successfully completed the Algebra 1 course and/or are taking Algebra 1 concurrently. **Students in this course are expected to take the AP Computer Science Examination. The AP Computer Science exam consists of a student-generated portfolio component submitted during the year and the exam in May.**

## AP Computer Science A

Grade(s): 10-12  
Period(s): 6

Credit(s): 1  
Term(s): Year

Level: AP  
Fee: AP Exam

Prerequisite: Successful completion/earned credit in *Algebra 2* and teacher recommendation

The focus of the AP Computer Science course is on the applied math foundation underlying computer science. This full-year programming course will use the Java Language to introduce simple computations, string handling, data types (including integers and floating-point decimals), programming style, control structures, order of operations, Boolean operators, arrays, functions, records, and object-oriented programming. Students are engaged in problem solving, logical thinking, and algorithm design and efficiency. **Students in this course are expected to take the AP Computer Science A Examination.**

# MUSIC EDUCATION

## Essentials of Music

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

This course is designed to expose students to a wide variety of musicianship topics and skills, and **no previous music experience is needed**. Curriculum is designed for the student who wants an introduction to multiple aspects of music; units covered include pop music, listening/appreciation, music theory, composition, piano, guitar, handbells, and other overarching musical concepts. **This class serves as the prerequisite for AP Music Theory.**

## AP Music Theory

Grade(s): 10-12  
Period(s): 6

Credit(s): 1  
Term(s): Year

Level: AP  
Fee: AP Exam

Prerequisite: Successful completion/earned credit in *Music Theory* or review by music faculty and music teacher

This course offers the accelerated student a course which is accepted by many colleges for credit. The course content follows the syllabus for the College Board Advanced Placement Program. Students will be expected to develop advanced skills in aural, sight-singing, composition, and analysis. These areas are developed through listening, performance, writing, and creative and analytical exercises. The program prepares students for a college course by making demands upon them equivalent to those of full-year college introductory courses. **Students in this course are expected to take the AP Music Theory examination.**

## Piano Class

Grade(s): 9-12  
Period(s): 3

Credit(s): .25  
Term(s): 1 Sem. (F or S)

Level: AA

This course offers an individual approach toward acquiring and developing basic piano skills in a laboratory setting. Piano class emphasizes a hands-on experience utilizing the most recent developments in electronic keyboard and midi instruction. **No previous piano background is required**; however, as the course is individually paced, advanced pianists may take the course as well. ***This course may be repeated.***

## Music Technology & Production

Grade(s): 9-12  
Period(s): 3

Credit(s): .25  
Term(s): 1 Sem. (F or S)

Level: AA

This course is designed to introduce students to a wide variety of skills and concepts under the umbrella of music technology. **NO MUSICAL EXPERIENCE IS REQUIRED!** Some of the concepts discussed through the semester include: songwriting and loops, drum sequencing/beat making, mixing/producing, podcasting, film scoring, and publishing digital music (to Spotify, Apple Music, etc.). Generally, this class is project-based and students will have opportunities to create diverse portfolios of media. Students will have hands-on experience working with the computer programs and recording equipment provided at school.

## Guitar Class

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

This course is for ANY student interested in playing the guitar. **NO MUSICAL EXPERIENCE IS REQUIRED!** Each student chooses to follow one of three different “tracks” of study, which allows for individuals with no guitar background to have different goals from students who start the class as experienced guitarists. School-owned acoustic guitars are available for use in this class. ***This course may be repeated.***

## Rock Band

Grade(s): 9-12  
Period(s): 3

Credit(s): .25  
Term(s): 1 Sem. (F or S)

Level: AA

This course is designed to give students an opportunity to perform in ensembles that deviate from the “traditional” concert setting. Performance genres include (but are not limited to): rock, metal, pop blues, hip hop, rap, and country. Emphasis will be placed heavily on student initiative, creativity, and small group projects and performances. Ensemble size and variety is determined by enrollment. Vocalists and instrumentalists who play guitar, bass, drum set, keyboard, wind, and string instruments are eligible for enrollment. ***This course may be repeated.***

## Bella Voce

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

This vocal ensemble is open to soprano and alto voices who would like the experience of group singing. Two and three-part music of various styles and periods will be used, with emphasis on the development of choral technique and musicianship. This ensemble will combine with Concert Choir. No audition is required. Performances are required. Upperclassmen are encouraged to sign-up for Concert Choir. ***This course may be repeated.***

## Concert Choir

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

Concert Choir offers an experience in choral singing. Members of the choir will perform choral literature in various styles and periods. Students should have good vocal skills and reading ability. Extra rehearsals may be scheduled outside of school hours. Attendance at all rehearsals and concerts is required. No Audition is required. ***This course may be repeated.***

## Chorale

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

Prerequisite: Enrolled in *Concert Choir* and audition or recommendation by director

This advanced ensemble affords its members the opportunity to perform a wide variety of choral literature for a larger vocal ensemble. Great importance is placed on balance, technique, expression, and slightly more advanced choral reading skills than Concert Choir. Students must be confident and mature musicians. A regular schedule of evening rehearsals is required. Students are highly encouraged to take Essentials of Music and Piano Class in addition to this course. ***This course may be repeated.***

## Symphonic Band

Grade(s): 9 (and 10-12 possible)  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

The Great Valley High School Symphonic Band is made up of brass, woodwind, and percussion students, typically in grade 9; however, 10-12 grades may enroll to play a secondary instrument or if schedule needs necessitate. Emphasis is placed on the development of individual and ensemble musical skills and performance excellence through group rehearsals, public performances, and individual practice. Occasional rehearsals will be scheduled outside the normal school day. Attendance at all rehearsals and performances is required. Students in the Concert Band are encouraged to continue private instruction and to participate in local, district, regional, state, and national concert festivals and contests. Depending on schedule availability, there will be expectations for group lessons based on a rotating schedule. ***This course may be repeated.***

## Concert Band

Grade(s): 10-12 (and 9 possible)  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

The Great Valley High School Concert Band is made up of brass, woodwind, and percussion students, typically in grades 10-12; however, grade 9 is possible if schedule needs necessitate. Emphasis is placed on the development of individual and ensemble musical skills and performance excellence through group rehearsals, public performances, and individual practice. Occasional rehearsals will be scheduled outside the normal school day. Attendance at all rehearsals and performances is required. Students in the Concert Band are encouraged to continue private instruction and to participate in local, district, regional, state, and national concert festivals and contests. Depending on schedule availability, there will be expectations for group lessons based on a rotating schedule. ***This course may be repeated.***

## String Orchestra/Symphony Orchestra

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

The Great Valley High School String/Symphony Orchestra is made up of students in grades 9-12 who play violin, viola, cello, and string bass. Emphasis is placed on the development of individual and ensemble musical skills and performance excellence through group rehearsals, public performances, and individual practice. Students in the String/Symphony Orchestra are encouraged to continue private instruction and to participate in local, district, regional, state, and national concert festivals and contests. Occasional rehearsals will be scheduled outside the normal school day. ***This course may be repeated.***

## Jazz Ensemble

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

Prerequisite: Students typically must be a member of the *String/Symphony Orchestra* and/or *Concert Band*; membership will be determined through auditions and required instrumentation with recommendation of director

This ensemble affords the opportunity to perform a variety of American jazz and modern music. As parts are typically assigned to one student, emphasis will be placed on advancing individual performance skills including: scales, sight-reading, intonation, listening, and improvisation. Rehearsals will be scheduled outside the normal school day. Attendance at all rehearsals and performances is required. Students in the Jazz Band are encouraged to continue private instruction and to participate in local, district, regional, state, and national concert festivals and contests. ***This course may be repeated.***

## Music Contract: Instrumental Music and Music Technology

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

This course gives students the opportunity to develop personal goals and a portfolio within the realm of instrumental music performance and/or music technology, including but not limited to: performance coaching for PMEA and college auditions, music theory and composition, improvisation, and music recording/production. Alternate instrumental music pathways may be followed if communicated and approved by the music faculty. This course primarily serves as a supplement to studies in the music program, but can be taken on its own. ***This course may be repeated.***

## Music Contract: Vocal Music and Drama Guild

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

This course gives students the opportunity to develop personal goals and a portfolio within the realm of vocal music performance and/or drama guild and musicals, including but not limited to: performance coaching for PMEA and college auditions, music theory and composition, piano performance/accompanying, and theater performance. Alternate vocal music pathways may be followed if communicated and approved by the music faculty. This course primarily serves as a supplement to studies in the music program, but can be taken on its own. ***This course may be repeated.***

# **SCIENCE**

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

### **Biology**

Grade(s): 9

Credit(s): 1

Level: AA, HRS

Period(s): 6

Term(s): Year

Honors Prerequisite: Successful completion/earned credit in eighth-grade *Science*, teacher recommendation

This course is a survey of the biological sciences that will provide a broad foundation for further study. Emphasis is placed on biochemistry, classification, evolution, cell biology, human physiology, genetics, and ecology. Current social issues, evolutionary trends, technology, and careers are incorporated in these units. Through the use of a core of experiments, a laboratory approach will be followed with an emphasis placed on inductive reasoning. The course aims to lead students from their natural interest and previous knowledge of living organisms to more advanced concepts of life.

In addition to the Biology curriculum, the Honors Course includes some advanced labs, enrichment activities, projects and reading of advanced science articles. Students who are interested in electing future advanced courses in the sciences should consider this option.

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

### **Chemistry**

Grade(s): 10

Credit(s): 1

Level: AA, HRS

Period(s): 6

Term(s): Year

Honors Prerequisite: Successful completion/earned credit in *Honors Biology* or *Biology AA*,  
(recommended completion of or concurrent with *Algebra 2*)

Chemistry provides an introduction to chemical principles. It implements a theme-based approach which relates the study of chemistry to the natural world and everyday life. Chemistry topics are taught under the themes of Alchemy, Smells, Weather, Toxins, Fire, and Showtime. As the course progresses, topics are revisited in increasing depth. Students in this course will use guided inquiry, laboratory experiments, mathematics, communication, and critical thinking in order to explore and learn chemistry concepts.

Honors Chemistry is intended as a preparation for students who wish more in-depth study of chemistry or who have a career interest in a related field such as natural sciences, engineering, or medicine. Students should have a strong interest in science. Chemistry experimentation provides the basis for development of chemical principles. Problem solving is emphasized and extensive.



# 11<sup>th</sup> Grade

## Physics

Grade(s): 11

Credit(s): 1

Level: AA, HRS

Period(s): 6

Term(s): Year

Honors Prerequisite: Successful completion/earned credit in (or concurrent enrollment in) *Pre-Calculus* or above

The Physics course presents a survey of physics topics. These subjects are introduced through mathematics, experiments, and classroom demonstrations. The applications of the concepts and laws of physics to our technological society are stressed throughout the course. Completion of the year-long Physics project (with components each marking period) is a required part of the class.

Honors Physics focuses on the study of interactions of matter and energy. It is designed for the student to obtain a foundation in physics and/or continue learning towards an engineering or science degree in college. To be successful, students should have completed or be concurrently enrolled in Pre-Calculus since the fundamental laws of physics are approached through both mathematical derivations and laboratory observations. The “scientific methods” are stressed in performing experiments. Many applications of the laws of physics to the world around us are demonstrated. Completion of the year-long Physics project (with components each marking period) is a required part of the class.

## Science Electives

### AP Biology

Grade(s): 10-12

Credit(s): 1.4

Level: AP

Period(s): 8

Term(s): Year

Fee: AP Exam

Prerequisite: 10<sup>th</sup> graders who successfully completed/earned credit in *Honors Biology*

11<sup>th</sup> graders who successfully completed/earned credit in *Biology* and *Chemistry* or successfully completed/earned credit in *Honors Biology* and *Honors Chemistry*

AP Biology is a course modeled after a two-semester college introductory Biology course for potential science majors. The course is a fast-paced in-depth study of many of the fields of study in the biological sciences including, but not limited to, biochemistry, cell physiology, bioenergetics, molecular genetics, evolutionary biology, diversity, ecology, and plant and animal physiology and anatomy. Two to four periods per week will be devoted to laboratory analysis, emphasizing the incorporation of biology content into studies based on relevant topics. The building of laboratory skills in mathematics, problem solving, analysis, modeling, and reasoning are incorporated into all experiments. This course will follow a timeline so that the students are prepared for the AP Exam in May. **All students are expected to take the AP Biology Examination.**

### AP Chemistry

Grade(s): 10-12

Credit(s): 1.4

Level: AP

Period(s): 8

Term(s): Year

Fee: AP Exam

Prerequisite: 10<sup>th</sup> graders who successfully completed/earned credit in *AP Biology* or in *Honors Biology*

11<sup>th</sup> graders who successfully completed/earned credit in *Accelerated Algebra 2* or in *Algebra 2* and who successfully completed/earned credit in *Honors Chemistry*

This second-year course, the equivalent of a college level general chemistry course including lab, helps prepare students for the AP examination in chemistry. Conceptual, descriptive, and quantitative chemistry are emphasized. Laboratory experimentation and report writing are stressed. Purchase of an AP Exam study guide is recommended. **All students are expected to take the AP Chemistry Examination.**

## AP Environmental Science

Grade(s): 10-12

Credit(s): 1.2

Level: AP

Period(s): 7

Term(s): Year

Fee: AP Exam

Prerequisite: Successful completion/earned credit in *Honors Biology* or in *Biology*, or concurrent enrollment in *AP Chemistry* or *Honors Chemistry* and successful completion/earned credit in *Algebra 2*  
Recommended: Strong reading and writing skills

The Advanced Placement (AP) Environmental Science course is designed to be the equivalent of a one semester, introductory college course in environmental science. APES will follow a prescribed course of study prepared by the College Board with an emphasis on laboratory and field investigations. Students will study the scientific principles, concepts and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and manmade, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving and/or preventing them. The course will prepare the student for taking the AP Environmental Science exam, as well as give a perspective on environmental issues that face our modern society. **Students in this course are expected to take the AP Environmental Science Examination.**

## AP Physics – Mechanics

Grade(s): 11

Credit(s): 1.2

Level: AP

Period(s): 7

Term(s): Year

Fee: AP Exam

Prerequisite: Successful completion/earned credit (or concurrent enrollment in) *AB* or *BC Calculus*

The Advanced Placement Physics course is offered at a first-year college level covering the Mechanics AP course curriculum. It is designed to assist students taking the AP Physics C-Mechanics Examination. The laws and concepts of physics are developed through a mechanical approach, and differential and integral calculus are used in the course. The mechanics portion covers rectilinear and rotational kinematics, dynamics, energy, and statics. Completion of the year-long Physics project (with components each marking period) is a required part of the class. **Students in this course are expected to take the AP Physics C-Mechanics Examination.**

## AP Physics – Electricity and Magnetism

Grade(s): 12

Credit(s): 1

Level: AP

Period(s): 6

Term(s): Year

Fee: AP Exam

Prerequisite: Successful completion/earned credit in (or concurrent enrollment in) *AB* or *BC Calculus*, suggested completion of *AP Physics 1 - Mechanics*

The Advanced Placement Physics is offered at a first-year college level covering the E and M AP course curriculum. It is designed to assist students taking the AP Physics C-Electricity and Magnetism examination. The laws and concepts of physics are developed, and differential and integral calculus are used in the course. The topics include Electrostatics, Electric Circuits, Magnetic Fields, and Electromagnetism. **Students in this course are expected to take the AP Physics C–Electricity and Magnetism examination.**

## Biology 2

Grade(s): 12

Credit(s): 1

Level: AA, HRS

Period(s): 6

Term(s): Year

Prerequisite: AA: Successful completion/earned credit in *Physics*  
HRS: Successful completion/earned credit in *Biology* and in *Chemistry* or successful completion/earned credit in *Honors Biology* and *Honors Chemistry*

This second-year course is a laboratory-based elective course designed for students interested in continuing their study of biological sciences. The major areas of study will be neurology and neurological disease, with a particular focus on amyotrophic lateral sclerosis (ALS), commonly referred to as Lou Gehrig's Disease. This course is a formal designated Partnership with researchers at the Brain Research Center at the University of Pittsburgh. Other topics will be embedded into the curriculum such as Experimental Design, Molecular Genetics and the expression and regulations of genes, Evolution and the role of natural selection in human evolution, Anatomy and Physiology and the integration of the nervous system within other human systems, and the Diversity of Life where structure and function relationships are compared with other organisms. Authentic laboratory research and field experiences are integral aspects of this course (including an expense paid trip to the Brain Research Center at the University of Pittsburgh). Some of these topics will be explored in greater depth in the Honors course.

## Chemistry 2

Grade(s): 12    Credit(s): 1    Level: AA, HRS  
Period(s): 6    Term(s): Year  
Prerequisite: AA: Successful completion/earned credit in *Physics*  
HRS: Successful completion/earned credit in *Algebra 2* and in *Chemistry* or  
successful completion/earned credit in *Honors Chemistry*

This second-year lab-based course is designed to allow interested students to explore concepts of Chemistry in greater detail. The first part of the course will be a continuation of the first-year course. The class will build upon topics previously learned, as well as introduce new Chemistry units not previously studied. The second part of the course will examine Chemistry in everyday life using thematic units such as forensics, kitchen chemistry, and chemistry careers. Problem-solving is emphasized and extensive. Some of these topics will be explored in greater depth in the Honors course.

## Physics 2

Grade(s): 12    Credit(s): 1    Level: AA, HRS  
Period(s): 6    Term(s): Year  
Prerequisite: AA: Successful completion/earned credit in *Physics*  
HRS: Successful completion/earned credit in *Physics* or successful completion/earned credit in *Honors Physics*

This course is a continuation of the first-year physics course. The main areas to be covered are light, waves, and electricity and magnetism. Topics are introduced to students through classroom demonstrations and laboratory experiences. The applications of the concepts and laws of physics to our technological society are stressed throughout the course. Students should have completed or be concurrently enrolled in a math class that includes trigonometry. Some of these topics will be explored in greater depth in the Honors course.

## Environmental Science

Grade(s): 11-12    Credit(s): 1    Level: AA  
Period(s): 6    Term(s): Year  
Prerequisites: Successful completion/earned credit in *Biology* and *Chemistry*

This course focuses on the study of the processes, patterns, and interrelationships in the natural world and their modification by human activity. Introductory ecological concepts in energy transfer and nutrient cycling, species interactions, and population dynamics will be presented. There will be an in-depth study of how human population growth and consumption impacts biodiversity; air, water, and land resources, causing waste and pollution issues locally and globally. Sustainable energy solutions and agricultural concepts will be addressed. The earth's major ecosystems will be covered with emphasis on the temperate deciduous forest biome and freshwater streams that we can study directly in fieldwork on campus and off. The goal of the course is to investigate both humans' impact on the environment and solutions to environmental problems faced by today's society. Students will gain skills in fieldwork, data collection, data analysis, and research.

## The Physics of Sports and Hobbies

Grade(s): 12    Credit(s): 1    Level: AA  
Period(s): 6    Term(s): Year  
Prerequisites: Successful completion/earned credit in *Physics*

This course will explore the everyday physics of sports and hobbies. Topics will include the Physics of Sports, the Physics of Astronomy, the Physics of Sound and Music, the Physics of Transportation, and the Physics of Construction. The application of everyday math and STEM concepts will be used throughout this very hands-on course in order to demonstrate and make daily physics connections.

**Note: This course is not approved by the NCAA Clearinghouse. This only affects college bound students who plan to play a Division I or II sport in college or university. Division III sports and college bound students who do not plan to participate in sports during college are not subject to the NCAA Clearinghouse requirement.**

# SOCIAL STUDIES

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

### World History

Grade(s): 9  
Period(s): 6

Credit(s): 1  
Term(s): Year

Level: AA, HRS

This year-long course surveys the evolution of civilization in Europe, the Americas, Africa, and Asia from approximately 1700 to the present. Content will address essential questions relating to the history and culture of the regions and the effects of their interaction with each other. The overarching theme of the course is for students to understand the origins of the modern world and their place in contemporary society. The course places an emphasis on analyzing primary and secondary sources, organizing information, and interpreting pictures, charts, graphs, tables, and maps. This emphasis begins the procedure of research and training that will ultimately lead to a research project in both the sophomore and junior years.

In addition to the World History curriculum, the Honors course will work extensively with non-fiction primary and secondary resources in addition to the textbook work. Students will be required to read non-fiction/fiction texts (small documents/short books) outside of class. These texts will then be discussed, debated, or written about in conjunction with the class lesson. Students should be prepared to work with texts that are at or above grade level.

### AP Human Geography

Grade(s): 9  
Period(s): 6

Credit(s): 1  
Term: Year

Level: AP  
Fee: AP Exam

Prerequisite: 8<sup>th</sup> grade Social Studies teacher recommendation

AP Human Geography is a college-level introduction to the study of the patterns and processes of human activity on the earth's surface. Students employ spatial concepts and landscape analysis to examine human social organization and its environmental consequences. To understand what happens in Human Geography is to relate theory to practice. Students will study the nature and perspectives of geography, population, cultural patterns and processes, the political organization of space, agricultural and rural land use, industrialization, economic development, and urbanization across countries. Students should be prepared to analyze and interpret basic data relevant to Human Geography in an attempt to describe how our interactions with the environment affect how we live. **Students in this course are expected to take the AP Human Geography exam.**

# 10<sup>th</sup> Grade

## United States History

Grade(s): 10

Credit(s): 1

Level: AA, HRS

Period(s): 6

Term(s): Year

Prerequisite: Recommendation of previous Social Studies teacher

The United States History course is a survey course that examines our history from the 1900s to present day. Students will investigate the changes that occur throughout our nation's history with an emphasis on the role of individuals, groups, and institutions and how they created and then transformed our nation into the country that it is today. Students will not only explore the connections between the past and present of the United States but also the connections between the United States and the rest of the world. Through the completion of a formal research project, the course continues and advances the development of research skills and procedures.

In addition to the United States History curriculum, the Honors course will work extensively with non-fiction primary and secondary resources in addition to the textbook work. Students will be required to read non-fiction/fiction texts (small documents/short books) outside of class. These texts will then be discussed, debated, or written about in conjunction with the class lesson. Students should be prepared to work with texts that are at or above grade level.

## AP United States History

Grade(s): 10

Credit(s): 1

Level: AP

Period(s): 6

Term(s): Year

Fee: AP Exam

Prerequisite: Recommendation of previous Social Studies teacher

Advanced Placement United States History is the equivalent of a college-level course designed to provide students with the analytical skills and factual knowledge necessary to deal critically with problems and materials in United States history. Students learn to access historical materials and weigh the evidence and interpretations presented in historical scholarship. This course develops the skills necessary to reach conclusions based on informed judgment and to present reasons and evidence clearly and persuasively in oral and written forms. Within a chronological framework, students examine the people, experiences, and events which have shaped the American nation. The program prepares students for college courses by making demands upon them equivalent to those of semester introductory courses. To continue the procedure of formal research and inquiry training begun in ninth grade, a research project is required. Successful completion of this project is required to receive credit for the course. **Students in this course are expected to take the AP United States History exam.**

# 11<sup>th</sup> Grade

## Government & Economics

Grade(s): 11    Credit(s): 1    Level: AA, HRS  
Period(s): 6    Term(s): Year  
Prerequisite: Recommendation of previous Social Studies teacher

Government and Economics is a full-year course designed to give students a solid foundation in the structure and foundation of American Government, the human and political component of our system, as well as an overview of the economy. Students will become prepared and engaged participants in our government and knowledgeable about our economy. Activities will include political and economic simulations, debates, and analysis of non-fiction works such as editorials, with a focus on perspective and intent of the writer. The course culminates with the completion of a multi-media research project. Successful completion of this project is required to receive credit for the course.

In addition to the Government and Economics curriculum, the Honors course places a greater emphasis on a seminar approach to discussion as well as critical writing as pertains to political activity and current events at home and abroad. Additionally, students will work extensively with non-fiction primary and secondary resources in addition to the textbook work. Students will be required to read non-fiction/fiction texts (small documents/short books) outside of class. These texts will then be discussed, debated, or written about in conjunction with the class lesson. Students should be prepared to work with texts that are above grade level.

## AP United States Government & Politics

Grade(s): 11    Credit(s): 1    Level: AP  
Period(s): 6    Term(s): Year    Fee: AP Exam  
Prerequisite: Recommendation of previous Social Studies teacher

AP U.S. Government and Politics offers students the opportunity to see how individuals and their ideas can shape the world in which they live. The main themes of the course (Constitutionalism, Liberty and Order, Civic Participation, Policy Making, and Methods of Political Analysis) are explored in five areas: Foundations of American Democracy; Interactions Among Branches of Government; Civil Liberties and Civil Rights; American Political Ideologies and Beliefs; and Political Participation. Additionally, students will be exposed to the core principles of economics as they apply to the role of individuals, firms, and the government of the U.S. and global economies. Being a college-level course, the program prepares students for introductory college courses in political science. **Students in this course are expected to take the AP U.S. Government and Politics exam.**

## Social Studies Electives

### 20<sup>th</sup> Century European History

Grade(s): 10-12    Credit(s): .5    Level: AA  
Period(s): 6    Term(s): 1 Sem. (F or S)

The 20<sup>th</sup> Century European History course is a semester survey course that examines European History from 1900 to the present day: World War One, Inter-war Time Period and Rise of Dictators, World War Two, Cold War (Democracy/Capitalism v Communism), Collapse of USSR and Eastern Europe, and present-day Europe. Students will investigate the changes that occur throughout the twentieth century with a focus on the dominant political, economic, social, and cultural themes. Students will be predominantly working independently, in pairs or in groups, to investigate specific aspects through a project-based approach integrating research and Social Studies literacy skills. This emphasis continues the procedure of research and training that will ultimately lead to the writing of a lengthy research paper in both the Junior and Senior years. Students considering moving on to a four-year college program are highly encouraged to take this course in combination with another general Social Studies elective. All electives are subject to cancellation based on enrollment.

## Criminal Justice

Grade(s): 10-12  
Period(s): 6

Credit(s): .5  
Term(s): 1 Sem. (F or S)

Level: AA

Criminal Justice focuses on the crime picture in America and on the three traditional elements of the criminal justice system: police, courts, and corrections. Building upon the theme of individual freedom versus personal security, it challenges students to evaluate the strengths and weaknesses of the American justice system as it adapts to the needs of a complex and rapidly changing society. Students considering moving on to a four-year college program are highly encouraged to take this course in combination with another general Social Studies elective. All electives are subject to cancellation based on enrollment.

## International Relations

Grade(s): 10-12  
Period(s): 6

Credit(s): .5  
Term(s): 1 Sem. (F or S)

Level: AA

International Relations is an elective semester course designed for students interested in learning their role as a citizen in the modern world. Students will learn the basic principles and theories of the study of international relations and apply these to current and historical issues. Additionally, students will study the role of Non-Government Organizations (NGOs) and the United Nations in addressing these issues through the use of simulations and mock United Nations Committees. The course will culminate in a 10-week world simulation called Statecraft, in which students must govern a simulated world and apply the principles learned in class. Students considering moving on to a four-year college program are highly encouraged to take this course in combination with another general Social Studies elective. All electives are subject to cancellation based on enrollment.

## Introduction to Psychology

Grade(s): 10-12  
Period(s): 6

Credit(s): .5  
Term(s): 1 Sem. (F or S)

Level: AA

The one semester Introduction to Psychology course is designed to develop the student's sensitivity to and capacity for understanding psychological issues and concerns. The course is offered to provide students with a working knowledge of the basic concepts of the field of Psychology. The course is intended to enable each student to apply these psychological principles to his/her own life and expand the student's ability to empathize with the plight of others. The course focuses on "the individual" as well as issues and problems that concern them such as personality development, sensation and perception, the brain, learning and remembering, intelligence, and disorders and conditions traditionally handled by professionals within the discipline.

The curriculum of Introduction to Psychology covers topics that can be sensitive in nature, especially for those who are dealing with psychological disorders, either personally or through a family member. Please be advised that the course specifically addresses some of the most common psychological disorders; therefore, it may not be appropriate for all students. Students considering moving on to a four-year college program are highly encouraged to take this course in combination with another general Social Studies elective. All electives are subject to cancellation based on enrollment.

## AP Economics (AP Macroeconomics & AP Microeconomics)

Grade(s): 11-12  
Period(s): 6

Credit(s): 1  
Term(s): Year

Level: AP  
Fee: AP Exam(s)

Prerequisite: Recommendation of previous Social Studies teacher

Advanced Placement Economics provides a college-level understanding of the principles of economics that apply to an economy in both Macroeconomic and Microeconomic spheres. The Macroeconomics portion places particular emphasis on the study of national income and price determination, in addition to developing students' familiarity with economic performance measures, economic growth, and international economics. The Microeconomics portion provides students a thorough understanding of the economic principles that apply to the functions of individual decision makers, both consumers and producers, within the larger economic system. It places primary emphasis on the nature and functions of product markets, but includes the study of factor markets and the role of government in promoting greater efficiency and equity in the economy. The program prepares students for introductory college courses in both Macroeconomics and Microeconomics. **Students in this course are expected to take the AP Macroeconomics and/or the AP Microeconomics exam(s).**

## AP European History

Grade(s): 11-12

Credit(s): 1

Level: AP

Period(s): 6

Term(s): Year

Fee: AP Exam

Prerequisite: Recommendation of previous Social Studies teacher

The Advanced Placement European History course corresponds to the most recent trends in history curricula of the undergraduate college level. The aim of the AP course in European history is to build on a student's knowledge of the factual narrative, an understanding of some of the principle themes in modern European history, an awareness of the consequences of European contacts with other areas of the world, and an ability to analyze historical evidence. The chronology begins with the Renaissance about 1450 and concludes with the early 1990's. The program prepares students for college courses by making demands upon them equivalent to those of semester introductory college courses. **Students in this course are expected to take the AP European History exam.**

## AP Psychology

Grade(s): 11-12

Credit(s): 1

Level: AP

Period(s): 6

Term(s): Year

Fee: AP Exam

Prerequisite: Recommendation of previous Social Studies teacher

The year-long Advanced Placement Psychology course is designed to introduce students to a college-level psychology course which includes a corresponding amount of work and an expectation that students will apply themselves in a substantial way to the learning process. Students enrolled in the course will cultivate their understanding of the systematic and scientific study of human behavior and mental processes as they explore concepts such as the biological basis of behavior, sensation and perception, learning and cognition, motivation, developmental psychology, testing and individual differences, abnormal behavior, and social psychology. **Students in this course are expected to take the AP Psychology exam.**

The curriculum of AP Psychology covers topics that can be sensitive in nature, especially for those who are dealing with psychological disorders, either personally or through a family member. Please be advised that the course specifically addresses some of the most common psychological disorders; therefore, it may not be appropriate for all students.



# TECHNOLOGY & ENGINEERING EDUCATION

## Technology, Innovation & Problem Solving

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

Students will be introduced to the design process used by engineers to design, build, test, and evaluate projects. Using computer software and a variety of machines and tools, students will develop innovative solutions to a variety of design challenges. Course projects vary from year to year, but may include robotic programming, reverse engineering, CO2 dragsters, 3D printing, and more.

## Advanced Design & 3-D Prototyping

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

Students will experience the logistics of how engineering departments work in a modern manufacturing environment when they design and manufacture a consumer product. Each class will be divided into different teams according to individual interests, skills, and experience. Team members will be assigned a role within an engineering department where they will be responsible for specific tasks associated with that role. As the lifecycle of the product evolves, students will work together to organize the materials and identify the processes needed to see the product through a timely production cycle. Students will also have the opportunity to visit local manufacturing facilities to gain first-hand knowledge and interact with actual engineers working in various departments.

## 2-D AutoCAD

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

This course introduces students to computer aided drawing techniques and the AutoCAD professional software. Students will learn the basics of command structure and conventional engineering drawing as they develop solutions to design problems and document their solutions with detailed, dimensioned, scaled plans. This course is recommended for students considering a career in engineering, technical trades, graphic design, or architecture. Areas of study will include work in mechanical, electrical, and architectural CAD. ***This course may be repeated.***

## 3-D Modeling

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

This course introduces students to the three-dimensional environment used today by designers, artists, animators, and engineers to develop, test, and document products and designs. Students will use Autodesk Inventor software, a parametric based 3-D solid modeling application, to create basic parts, assemble parts into finished designs, and document creation through orthographic, pictorial, and animated presentations. Students will also learn how to perform basic engineering analysis on their designs. Students will be expected to develop original and creative design solutions to various design problems by applying knowledge of Autodesk Inventor. ***This course may be repeated.***

# Architectural Design

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

This course introduces the student to the virtual three-dimensional design environment used by architects to develop and present designs. Students will learn the basics of architectural planning and design as they create a complete set of architectural plans for a residential building using Autodesk Revit software. Revit is a parametric based architectural modeling application that allows such tasks as virtual walkthroughs, photorealistic rendering, and automated extraction of technical drawing plans. This course is recommended for students who are considering majoring in Architectural Design and/or Architectural Engineering in college.

# Project Lead the Way – Pathway to Engineering

Visit <http://www.pltw.org/our-programs/pltw-engineering-curriculum>

## Introduction to Engineering Design (IED)

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

Students dig deep into the engineering design process, applying math, science, and engineering standards to hands-on projects. They work both individually and in teams to design solutions to a variety of problems using 3D modeling software, and use an engineering notebook to document their work.

## Principles of Engineering (POE)

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

Through problems that engage and challenge, students explore a broad range of engineering topics, including mechanisms, the strength of structures and materials, and automation. Students develop skills in problem-solving, research, and design while learning strategies for design process documentation, collaboration, and presentation.

## Engineering Design and Development (EDD)

Grade(s): 9-12  
Period(s): 3

Credit(s): .5  
Term(s): Year

Level: AA

In Engineering Design and Development (EDD), students identify an issue and then research, design, and test a solution, ultimately presenting their solution to a panel of engineers. Students apply the professional skills they have developed to document a design process to standards, thereby completing Engineering Design and Development ready to take on any post-secondary program or career.

# WORLD LANGUAGE

## French 1

Grade(s): 9-12  
Period(s): 6

Credit(s): 1  
Term(s): Year

Level: AA

This course emphasizes basic communication skills in French. Students develop listening, speaking, reading, and writing skills through the study of adapted classroom readings, discussions, and audiovisual material that will allow students to explore aspects of history, language, daily life, culture, and geography. Through this exploration, students will reinforce and further their knowledge of other subject areas such as language, arts, mathematics, science, social studies, and other languages. Careful examination of vocabulary from the readings will help students recognize and use the elements of French in order to increase knowledge of their own language.

## French 2

Grade(s): 9-12  
Period(s): 6

Credit(s): 1  
Term(s): Year

Level: AA

Prerequisite: Successful completion/earned credit in *French 1*

This course will advance the students in their communication abilities in French. Continued study of French vocabulary and structures will further increase the student's knowledge of their own language. Culture and geography will be studied in greater depth. Students will use their knowledge of the French world to make connections with other subject areas such as language, arts, mathematics, science, social studies, and other languages.

## French 3

Grade(s): 10-12  
Period(s): 6

Credit(s): 1  
Term(s): Year

Level: AA

Prerequisite: Successful completion/earned credit in *French 2*

This course enables the students to progress beyond the basic language skills in French. An on-going review of grammar as well as new material will enhance the students' mastery of the language. Vocabulary and idiomatic expressions from different sources will enable students to communicate at a higher level in the French language. Students will use their knowledge of the French language to acquire new information about the French world. Students will relate materials studied to other subject area.

## French 4\*(DE)

Grade(s): 11-12  
Period(s): 6

Credit(s): 1  
Term(s): Year

Level: AA, HRS

Prerequisite: AA: Successful completion/earned credit in *French 3* and/or teacher recommendation  
HRS: Successful completion/earned credit in *French 3* and/or teacher recommendation

This course is designed for college-bound students who have demonstrated superior skills in French and features an integrated approach to language study and acquisition. Students will be assessed according to three modes of communication (interpretive reading and listening, interpersonal speaking and writing, and presentational speaking and writing) and related cultural competency. Honors level students are expected to maintain a high level of autonomy and personal responsibility for their learning while keeping pace with the rigor of the course.

## Honors French 5

Grade(s): 12  
Period(s): 6

Credit(s): 1  
Term(s): Year

Level: HRS

Prerequisite: Successful completion/earned credit in *French 4* and/or teacher recommendation

This course is for college-bound students with superior skills and serious interest in French. It is designed to refine and build upon the concepts from previous years of study and to advance the students in their French skills. Students will read newspaper articles, poetry, stories, and other literary works that give them an insight into modern life. Projects and activities will focus on creative use of spoken and written language. The course will offer the students listening experiences with materials from the countries in which the language is spoken.

# AP French Language and Culture

Grade(s): 12  
Period(s): 6  
Prerequisite: Successful completion/earned credit in *French 4* and/or teacher recommendation

Credit(s): 1  
Term(s): Year

Level: AP  
Fee: AP Exam

This course features an integrated approach to language acquisition and is designed for college-bound students with superior skills and a serious interest in French. Students will read significant works of French literature in a historical context to develop reading, writing, listening, and speaking skills necessary to understand and express ideas in French as well as respond critically to works of literature. Students are given frequent opportunities to integrate interpersonal, interpretive, and presentational skills by means of varied and authentic written, print, visual, audio, and audio-visual resources. The course includes rigorous practice for the listening, reading, writing, and speaking tasks in preparation for the AP examination. **All students taking this course are expected to take the AP examination.**

## German 1

Grade(s): 9-12  
Period(s): 6

Credit(s): 1  
Term(s): Year

Level AA

This course emphasizes basic communication skills in German. Students develop listening, speaking, reading, and writing skills through the study of adapted classroom readings, discussions, and audiovisual material that will allow students to explore aspects of history, language, daily life, culture, and geography. Through this exploration, students will reinforce and further their knowledge of other subject areas such as language, arts, mathematics, science, social studies, and other languages. Careful examination of vocabulary from the readings will help students recognize and use the elements of German in order to increase knowledge of their own language.

## German 2

Grade(s): 9-12  
Period(s): 6

Credit(s): 1  
Term(s): Year

Level: AA

Prerequisite: Successful completion/earned credit in *German 1*

This course will advance the students in their communication abilities in German. Continued study of German vocabulary and structures will further increase the student's knowledge of their own language. Culture and geography will be studied in greater depth. Students will use their knowledge of the German world to make connections with other subject areas such as language, arts, mathematics, science, social studies, and other languages.

## German 3

Grade(s): 10-12  
Period(s): 6

Credit(s): 1  
Term(s): Year

Level: AA

Prerequisite: Successful completion/earned credit in *German 2*

This course enables the students to progress beyond the basic language skills in German. An ongoing review of grammar as well as new material will enhance the students' mastery of the language. Vocabulary and idiomatic expressions from different sources will enable students to communicate at a higher level in the German language. Students will use their knowledge of the German language to acquire new information about the German world. Students will relate materials studied to other subject areas.

## German 4\*<sub>(DE)</sub>

Grade(s): 11-12  
Period(s): 6

Credit(s): 1  
Term(s): Year

Level: AA, HRS

Prerequisite: AA: Successful completion/earned credit in *German 3* and/or teacher recommendation  
HRS: Successful completion/earned credit in *German 3* and/or teacher recommendation

This course is designed for the college-bound student who has demonstrated superior skills in German and features an integrated approach to language study and acquisition. Students will be assessed according to three modes of communication (interpretive reading and listening, interpersonal speaking and writing, and presentation speaking and writing) and related cultural competency. Honors level students are expected to maintain a high level of autonomy and personal responsibility for their learning while keeping pace with the rigor of the course.

## Honors German 5

Grade(s): 12                                      Credit(s): 1                                      Level: HRS  
Period(s): 6                                      Term(s): Year  
Prerequisite: Successful completion/earned credit in *German 4* and/or teacher recommendation

This course is for college-bound students with superior skills and a serious interest in German. It is designed to refine and build upon the concepts from previous years of study and to advance the students in their German skills. Students will read newspaper articles, poetry, stories, and other literary works that give them an insight into modern life. Projects and activities will focus on creative use of spoken and written language. The course will offer the students listening experiences with materials from the countries in which the language is spoken.

## AP German Language and Culture

Grade(s): 12                                      Credit(s): 1                                      Level: AP  
Period(s): 6                                      Term(s): Year                                      Fee: AP Exam  
Prerequisite: Successful completion/earned credit in *German 4* and/or teacher recommendation

This course features an integrated approach to language acquisition and is designed for college-bound students with superior skills and a serious interest in German. Students will read significant works of German literature in a historical context to develop reading, writing, listening, and speaking skills necessary to understand and express ideas in German as well as respond critically to works of literature. Students are given frequent opportunities to integrate interpersonal, interpretive, and presentational skills by means of varied and authentic written, print, visual, audio, and audio-visual resources. The course includes rigorous practice for the listening, reading, writing, and speaking tasks in preparation for the AP examination. **All students taking this course are expected to take the AP examination.**

## Latin 1

Grade(s): 9-12                                      Credit(s): 1                                      Level: AA  
Period(s): 6                                      Term(s): Year

This course emphasizes basic communication skills in Latin. Students will develop listening, speaking, reading, and writing skills through the study of adapted classroom readings, discussions, and audiovisual material that will allow students to explore aspects of history, language, daily life, culture, and geography. Through this exploration, students will reinforce and further their knowledge of other subject areas such as language arts, mathematics, science, social studies, and other languages. Careful examination of vocabulary from the readings will help students recognize and use the elements of Latin in order to increase knowledge of their own language.

## Latin 2

Grade(s): 9-12                                      Credit(s): 1                                      Level: AA  
Period(s): 6                                      Term(s): Year  
Prerequisite: Successful completion/earned credit in *Latin 1*

This course will advance the students in their communication abilities in Latin. Continued study of Latin vocabulary and structures will further increase the student's knowledge of their own language. Culture and geography will be studied in greater depth. Students will use their knowledge of the Latin world to make connections with other subject areas such as language, arts, mathematics, science, social studies, and other languages.

## Latin 3

Grade(s): 10-12                                      Credit(s): 1                                      Level: AA  
Period(s): 6                                      Term(s): Year  
Prerequisite: Successful completion/earned credit in *Latin 2*

This course enables the students to progress beyond the basic language skills in Latin. An ongoing review of grammar, as well as new material, will enhance the student's mastery of the language. Vocabulary and idiomatic expressions from different sources will enable students to communicate at a higher level in the Latin language to acquire new information about the Latin world. Students will relate materials studied to other subject areas

## Latin 4

Grade(s): 11-12

Credit(s): 1

Level: AA, HRS

Period(s): 6

Term(s): Year

Prerequisite: AA: Successful completion/earned credit in *Latin 3* and/or teacher recommendation  
HRS: Successful completion/earned credit in *Latin 3* and/or teacher recommendation

This course is designed for the college-bound students who have demonstrated superior skills in Latin and features an integrated approach to language study and acquisition. Students will read significant works of literature within a historical context and will develop advanced reading and writing skills necessary to understand Latin as well as respond critically to works of literature. Honors level students are expected to maintain a high level of autonomy and personal responsibility for their learning while keeping pace with the rigor of the course.

## Honors Latin 5

Grade(s): 12

Credit(s): 1

Level: HRS

Period(s): 6

Term(s): Year

Prerequisite: Successful completion/earned credit in *Latin 4* and/or teacher recommendation

This course is for college-bound students with superior skills and a serious interest in Latin. It is designed to refine and build upon the concepts from previous years of study and to advance the students in their Latin skills. Students will read about and explore topics from the golden age of Latin literature. Topics include duty to oneself, family and country, love and betrayal, heroism, and leadership. Projects and activities will allow students to explore topics of particular interest to themselves, expanding their knowledge of classical studies and understanding the role of Latin in the global community.

## AP Latin: Vergil and Caesar

Grade(s): 12

Credit(s): 1

Level: AP

Period(s): 6

Term(s): Year

Fee: AP Exam

Prerequisite: Successful completion/earned credit in *Latin 4* and/or teacher recommendation

This course is for college-bound students with superior skills and a serious interest in Latin who are planning to take the AP Latin: Caesar Vergil examination. It is designed to refine and build upon the concepts from previous years of study and to advance the students in their Latin skills. Students will read and explore Caesar's Gallic Wars and poetry from the golden age of Latin literature. Topics include duty to oneself, war and peace, family and country, love and betrayal, heroism, and leadership. This course includes rigorous practice for the tasks on the AP examination. **All students taking this course are expected to take the AP examination.**

## Spanish 1

Grade(s): 9-12

Credit(s): 1

Level: AA

Period(s): 6

Term(s): Year

This course emphasizes basic communication skills in Spanish. Students develop listening, speaking, reading, and writing skills through the study of adapted classroom readings, discussions, and audiovisual material that will allow students to explore aspects of history, language, daily life, culture, and geography. Through this exploration, students will reinforce and further their knowledge of other subject areas such as language, arts, mathematics, science, social studies, and other languages. Careful examination of vocabulary from the readings will help students recognize and use the elements of Spanish in order to increase knowledge of their own language.

## Spanish 2

Grade(s): 9-12

Credit(s): 1

Level: AA

Period(s): 6

Term(s): Year

Prerequisite: Successful completion/earned credit in *Spanish 1*

This course will advance the students in their communication abilities in Spanish. Continued study of Spanish vocabulary and structures will further increase the student's knowledge of their own language. Culture and geography will be studied in greater depth. Students will use their knowledge of the Spanish world to make connections with other subject areas such as language arts, mathematics, science, social studies, and other languages.

## Spanish 3

Grade(s): 10-12

Credit(s): 1

Level: AA

Period(s): 6

Term(s): Year

Prerequisite: Successful completion/earned credit in *Spanish 2*

This course enables the students to progress beyond the basic language skills in Spanish. An ongoing review of grammar as well as new material will enhance the students' mastery of the language. Vocabulary and idiomatic expressions from different sources will enable students to communicate at a higher level in the Spanish language. Students will use their knowledge of the Spanish language to acquire new information about the Spanish world. Students will relate materials studied to other subject areas.

## Spanish 4\*<sub>(DE)</sub>

Grade(s): 11-12

Credit(s): 1

Level: AA, HRS

Period(s): 6

Term(s): Year

Prerequisite: AA: Successful completion/earned credit in *Spanish 3* and/or teacher recommendation

HRS: Successful completion/earned credit in *Spanish 3* and/or teacher recommendation

This course is designed for the college-bound student who has demonstrated superior skills in Spanish and features an integrated approach to language study and acquisition. Students will be assessed according to three modes of communication (interpretive reading and listening, interpersonal speaking and writing, and presentational speaking and writing) and related cultural competency. Honors level students are expected to maintain a high level of autonomy and personal responsibility for their learning while keeping pace with the rigor of the course.

## Honors Spanish 5\*<sub>(DE)</sub>

Grade(s): 12

Credit(s): 1

Level: HRS

Period(s): 6

Term(s): Year

Prerequisite: Successful completion/earned credit in *Spanish 4* and/or teacher recommendation

This course features an integral approach to language acquisition and is designed for college-bound students with superior skills and a serious interest in Spanish. Students will read significant works of Spanish and Hispanic literature in a historical context to develop advanced reading, writing, listening, and speaking skills necessary to understand and express ideas in Spanish as well as respond critically to works of literature. Students will refine communication skills through videos, magazines, and/or newspaper articles.

# AP Spanish Language

Grade(s): 12

Credit(s): 1

Level: AP

Period(s): 6

Term(s): Year

Fee: AP Exam

Prerequisite: Successful completion/earned credit in *Spanish 4* and/or teacher recommendation

This course features an integrated approach to language acquisition and is designed for college-bound students with superior skills and a serious interest in Spanish. Students will read significant works of Spanish literature in a historical context to develop reading, writing, listening and speaking skills necessary to understand and express ideas in Spanish as well as respond critically to works of literature. Students are given frequent opportunities to integrate interpersonal, interpretive, and presentational skills by means of varied and authentic written, print, visual, audio, and audio-visual resources. The course includes rigorous practice for the listening, reading, writing, and speaking tasks in preparation for the AP examination. **All students taking this course are expected to take the AP examination.**



# Independent Study Project

Grade(s): 9-12

Credit(s): Varies

Level(s): Varies

Period(s): Varies

Term(s): Varies

Prerequisite: Student initiated with approval by a faculty member, department chairperson, counselor, and principal. Independent study requests will only be considered for class/coursework not offered by GVHS.

The student works under the direction of a faculty member and pursues an approved topic or project as described in a thorough outline prepared by the student. The work required for one credit in Independent Study is equal to or greater than that required for one credit in another major academic subject. An Independent Study project may be taken concurrently with a maximum of five other majors but cannot be used to replace a required course in the curriculum.

# Air Force Junior ROTC

Grade(s): 9-12

Credit(s): 1

Level(s): AA

Period(s): Varies

Term(s): Year

**AS 200: The Science of Flight: A Gateway to New Horizons-The Science of Flight:** A Gateway to New Horizons is an introductory course and customized textbook that focuses on how airplanes fly, how weather conditions affect flight, flight and the human body, and flight navigation. The course is designed to complement materials taught in math, physics, and other science related courses and is aligned with the National Science Education Standards, the Math Standards and Expectations, and ISTE National Educational Technology Standards for Students.

**LE 100: Citizenship, Character, & Air Force Tradition:** In this course, the students will learn the importance of AFJROTC history, mission, purpose, goals, and objectives, military traditions and the importance of maintaining a high standard of dress and personal appearance. They will also learn the importance of attitude, discipline, and respect, and why values and ethics are so important and the importance of individual self-control, common courtesies and etiquette. Students will also know that an effective stress management program improves the quality of life. Know why courtesies are rendered to the United States flag and the National Anthem. Know why it is important to be a good democratic citizen and to be familiar with the different forms of government. Know the importance of keeping yourself well and helping others stay well.

# **SPECIALIZED PROGRAMS FOR SENIORS**

These are highly selective programs, and students must complete the application process by the deadline date which is announced each year. Apply online at [www.tchspickering.org](http://www.tchspickering.org).

## **Allied Health**

The Allied Health program is a highly regarded option for those considering a career in the medical profession. Top seniors who enroll in this 7.5 hour per week college prep program split their time behind a desk in the classroom and on their feet in local health care facilities.

Students have four pathways to choose from: Hospital, EMT, Sports Medicine, or Community Health track. The hospital track is for those students who are primarily interested in getting a comprehensive overview of the medical field in a hospital setting. Students will complete clinical rotations across a wide variety of hospital departments. In addition to earning 2 high school credits, students have the opportunity to enroll in a dual enrollment program. The EMT track is for those students who are primarily interested in pursuing a career in the emergency medical field or building a foundation of knowledge for allied health professions. Students will complete hands-on clinical rotations in the field with Good Fellowship Ambulance and EMS Training Institute. Students enrolled in the EMT track have the opportunity to articulate to West Chester University. Students can earn 12 credits through the HEA 199 – Health Elective course. The sports medicine track is for those students who are interested in pursuing a career in the physical medicine and rehabilitation field. Students may complete clinical rotations in high school athletic training rooms and community rehabilitation facilities.

## **Teacher Leadership Academy**

The Teacher Leadership Academy is a program for high school seniors interested in pursuing a career in the field of education. In addition to earning 2 high school credits, students have the opportunity to enroll in a dual enrollment program. The course consists of 7.5 hours/week divided between classroom instruction and internships with certified, tenured teachers at all grade levels, resulting in approximately 180 hours of instruction and 90 hours of internship experience. Student internships consist of Elementary, Secondary Education and Special Education placements.

# CAREER AND TECHNICAL EDUCATION PROGRAMS

## Chester County Technical College High School

The Chester County Intermediate Unit operates career and technical education programs for high school students at the Chester County Technical College High School (TCHS) in three locations: Brandywine Campus, Pennock's Bridge Campus and Pickering Campus. The Chester County Technical College High School (TCHS) is a part-time, public high school of choice specializing in career and technical education for students in grades 9-12. TCHS offers students an opportunity to prepare for their futures. Whether that means going on to higher education, securing a job after high school or some combination of the two, TCHS' student-centered approach crafts an educational experience as unique as each of its students. For more information about Chester County Technical College High School programs or to apply online visit [www.technicalcollegehighschool.org](http://www.technicalcollegehighschool.org).

The career and technical education (CTE) programs offered at TCHS are aligned to the Pennsylvania State Standards, focused on national industry standards and are tuition-free for students. CTE programs lead seamlessly to postsecondary education through the Pennsylvania Department of Education's (PDE) SOAR Programs of Study. The mission of SOAR is to prepare **S**tudents (who are) **O**ccupationally and **A**cademically **R**eady for college and careers in an increasingly diverse, high-performing workforce. Graduates of approved SOAR programs who meet academic and technical criteria qualify for several **FREE** technical credits at over forty-three participating colleges across Pennsylvania. For more information about SOAR and the complete list of participating colleges and postsecondary program visit: [www.collegetransfer.net](http://www.collegetransfer.net).

Great Valley students in grades 10-12 may attend TCHS Pickering on a full-time or part-time basis. Students receive a Great Valley High School Diploma upon completion of all high school requirements.

An application and acceptance to TCHS Pickering is required. A student's counselor will help with the application process and with providing a complete course catalog. Students are encouraged to apply online. Purchase of specialized equipment and/or uniforms will be required. Building tours are available and encouraged. Transportation to and from GVHS and TCHS Pickering is provided. It is recommended that students commit to completing a full experience at TCHS. To apply, or for additional information, go to: [www.technicalcollegehighschool.org](http://www.technicalcollegehighschool.org) or call 610-933-8877.

## Technical College High School Courses Offered

**Br** Brandywine Campus  
Downingtown, PA

**Pi** Pickering Campus  
Phoenixville, PA

- Animal Science **Pi**
- Automotive Collision Technology **Pi**
- Automotive Service Technology **Pi**
- Baking & Pastry Arts **Br**
- Barbering **Br**
- Carpentry **Pi**
- Commercial & Graphic Arts **Pi**
- Computer Information Systems – Networking **Br**
- Cosmetology **Pi**
- Criminal Justice & Police Sciences **Pi**
- Culinary Arts **Pi**
- Digital Media & Sound Communications **Pi**
- Early Childhood Care & Education **Pi**
- Electrical & Mechanical Systems **Br**
- Engine Technology **Pi**
- Engineering & Automated Manufacturing Technology **Pi**
- Health Career Pathways **Pi**
- HVAC & Refrigeration Technology **Br**
- Marketing & Financial Services **Br**
- Robotics & Mechatronics **Br**
- Precision CNC Machining **Pi**
- Robotics & Avionics **Pi**
- Sustainable Energy Engineering **Pi**
- Veterinary Science **Br**

# CAREER AND TECHNICAL EDUCATION PATHWAYS

The **Technical College High School (TCHS) Pickering Campus** is a public high school specializing in Career and Technical Education (CTE). CTE programs prepare students for success in college, the workplace and life. Most CTE programs at TCHS are designated as High Priority Occupations (HPO) by the Pennsylvania Department of Labor and Industry, and all are aligned with the Pennsylvania State Academic Standards and national certifications. Go to: [www.tchspickering.org](http://www.tchspickering.org), for the program listing and descriptions.



CTE programs lead seamlessly to postsecondary education through the Pennsylvania Department of Education's (PDE) SOAR Programs of Study. The mission of SOAR is to prepare **S**tudents (who are) **O**ccupationally and **A**cademically **R**eady for college and careers in an increasingly diverse, high performing workforce. Graduates of the Pickering Campus' approved SOAR programs who meet challenging academic and technical criteria qualify for several free credits at forty-three participating colleges across Pennsylvania. These include the Pennsylvania College of Technology, Delaware County Community College, Montgomery County Community College, Clarion University, Thaddeus Stevens College of Technology and Harcum College. For more information about SOAR and the complete list of participating colleges and postsecondary programs, visit: [www.collegetransfer.net](http://www.collegetransfer.net).

"Get the credits you've already earned!" in the following SOAR programs at TCHS:

**Automotive Collision Technology, Automotive Service Technology, Carpentry, Commercial & Graphic Arts, Criminal Justice & Police Sciences, Culinary Arts, Digital Media & Sound Communications, Early Childhood Care & Education, Robotics & Avionics, Engineering and Automated Manufacturing Technology, Engine Technology, Health Career Pathways, Precision CNC Machining and Sustainable Energy Engineering.**

PDE-approved programs at the Pickering Campus are college pathways that connect to many colleges and technical schools that offer credits for competencies achieved at TCHS. PDE-approved programs are: **Cosmetology and Animal Science**. In addition to the PDE-approved CTE programs, TCHS also offers two seniors-only college preparatory academies: **Teacher Leadership Academy and Allied Health - Hospital, EMT, Sports Medicine, and Community Health Pathways**.

For information regarding the TCHS dual enrollment opportunities, (DCCC, Harrisburg University, Immaculata University, and West Chester University), please go to: [www.tchspickering.org](http://www.tchspickering.org), click on students, prospective students, and college credit now.

Apply online at [www.tchspickering.org](http://www.tchspickering.org). For additional information, contact the TCHS admissions specialist by email, [admissions@cciu.org](mailto:admissions@cciu.org) or call (484) 237-5325.

**Note:** Any program that is outside of the district's 10-mile radius will require students to provide their own transportation, and the district will not transport students.

# ONE OPPORTUNITY. LIMITLESS POSSIBILITIES.

If you want to play sports at an NCAA Division I or II school, start by registering for a Certification Account with the NCAA Eligibility Center at [eligibilitycenter.org](http://eligibilitycenter.org). If you want to play Division III sports or you aren't sure where you want to compete, start by creating a Profile Page at [eligibilitycenter.org](http://eligibilitycenter.org).

## ACADEMIC REQUIREMENTS

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

## CORE COURSES

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

### DIVISION I

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

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

### DIVISION II

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

## GRADE-POINT AVERAGE

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

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

## SLIDING SCALE

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

## TEST SCORES

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



# HIGH SCHOOL TIMELINE

## 9<sup>TH</sup> GRADE



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

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

## 10<sup>TH</sup> GRADE



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

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

## 11<sup>TH</sup> GRADE



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

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

## 12<sup>TH</sup> GRADE



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

• Take the ACT or SAT again, if necessary, and submit your scores to the NCAA Eligibility Center using code 9999.

- Request your final amateurism certification beginning April 1 (fall enrollees) or Oct. 1 (winter/spring enrollees) in your NCAA Eligibility Center account at [eligibilitycenter.org](http://eligibilitycenter.org).
- After you graduate, ask your counselor to upload your final official transcript with proof of graduation to your NCAA Eligibility Center account.
- *Reminder:* Only students on an NCAA Division I or II school's institutional request list will receive a certification.

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

$$4 \times 4 = 16$$

### 9<sup>TH</sup> GRADE

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

4 CORE COURSES

### 10<sup>TH</sup> GRADE

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

4 CORE COURSES

### 11<sup>TH</sup> GRADE

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

4 CORE COURSES

### 12<sup>TH</sup> GRADE

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

4 CORE COURSES

For more information: [ncaa.org/playcollegesports](http://ncaa.org/playcollegesports) | [eligibilitycenter.org](http://eligibilitycenter.org)

Search Frequently Asked Questions: [ncaa.org/studentfaq](http://ncaa.org/studentfaq)

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