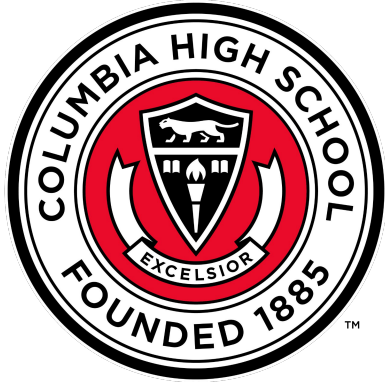




Advanced Placement Dual Enrollment Night

December 2, 2025

Columbia High School

[AP List of Courses](#)



— THE SCHOOL DISTRICT OF —
**South Orange
& Maplewood**
"MANY VOICES, TWO TOWNS, ONE DISTRICT"



COLUMBIA - Who we are

Columbia High School is committed to every student's success.

We believe access to rigorous coursework, such as Advanced Placement® (AP®), plays an important role in that success.



[AP List of Courses](#)

Last Year: CHS GOLD MEDAL Status Again 2025!

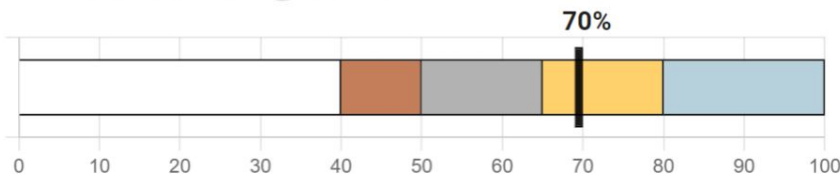
AP Score Reports for Educators

[Reports](#)[Administrator Tools](#)[Help](#)

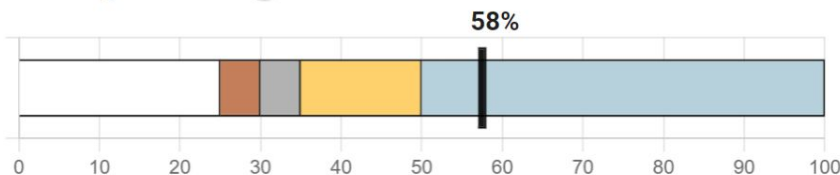
Congratulations! Columbia High School has earned Gold recognition on the 2024 AP School Honor Roll.

Class of 2024

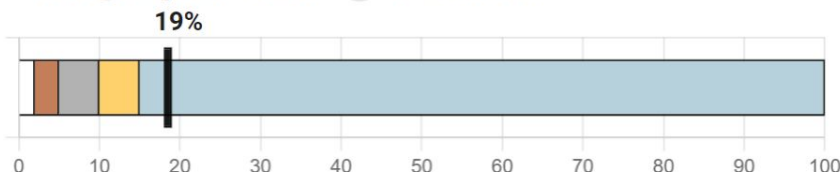
College Culture ? GOLD



College Credit ? PLATINUM



College Optimization ? PLATINUM



GOLD

AP 2024 School Honor Roll

Columbia High School

Your school achieved all criteria to be listed on this year's AP School Honor Roll as a **Gold** school!

For planning and goal-setting, the three criteria for **PLATINUM** schools are:

- Expand your school's college culture by enabling **80% of your Class of 2025** to experience 1 AP course before graduating.
- Assist with college affordability by enabling **50% of your Class of 2025** to earn college credit by earning an AP Exam score of 3.
- Optimize student's college readiness by creating opportunities for **15% of your Class of 2025** to take a total of 5 APs across their high school years, with at least 1 taken in 9th or 10th grade.

Advanced Placement[®] : The Basics

- The Advanced Placement Program is run by a non-profit organization, the College Board. The College Board is also responsible for the PSAT and SAT tests.
- **AP[®] courses** are college-level courses offered in high school.
- **AP[®] Courses** reflect what is taught in top, introductory college courses.
- Students take **AP[®] Exams** at the end of the course, measuring their mastery of college-level work.
- A score of 3 or higher on an **AP[®] Exam** may earn students college credit and/or placement into advanced courses in college.
- **AP[®] Courses** are different than **Dual Enrollment courses**

Year to Year Results



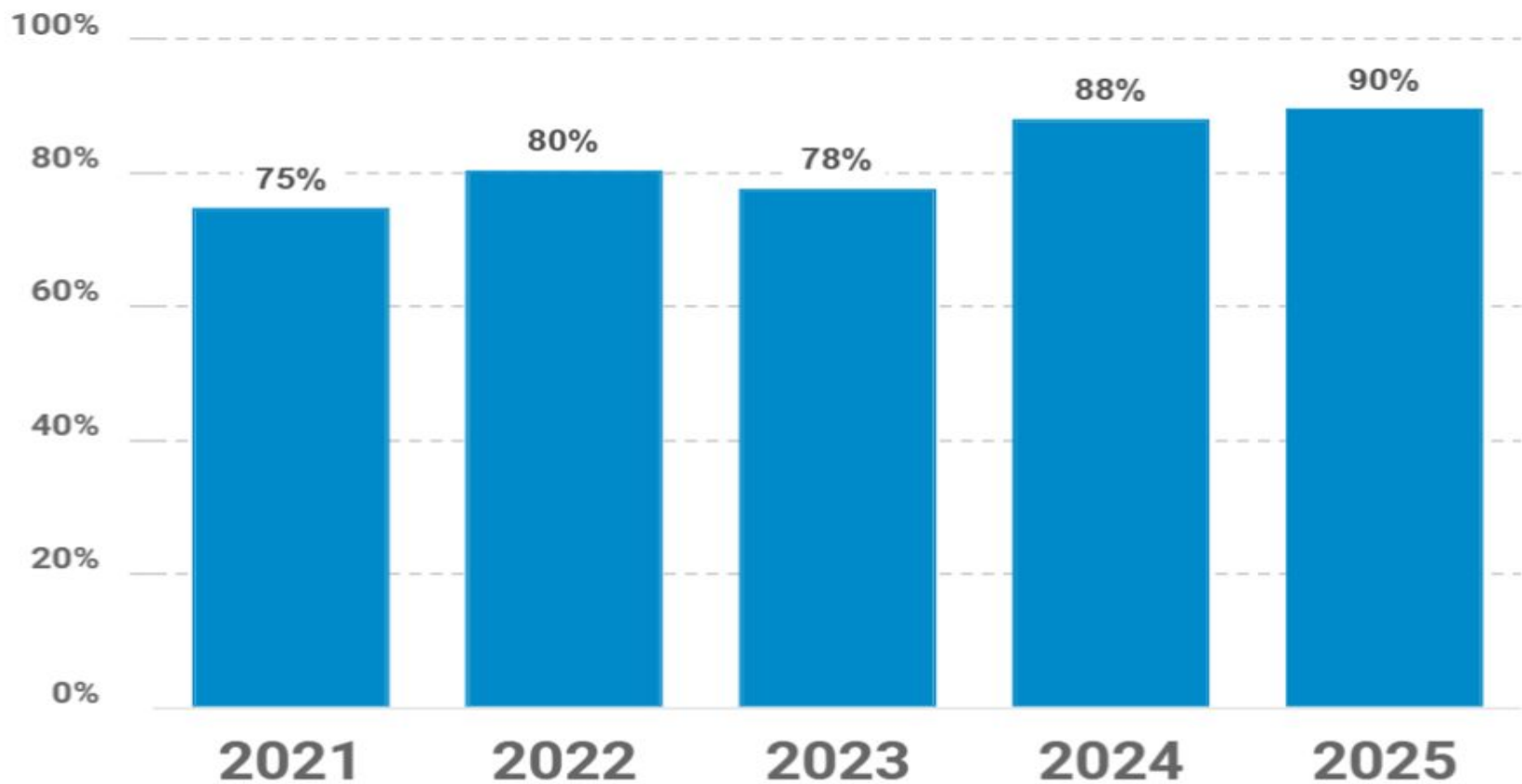
SCHOOL SUMMARY

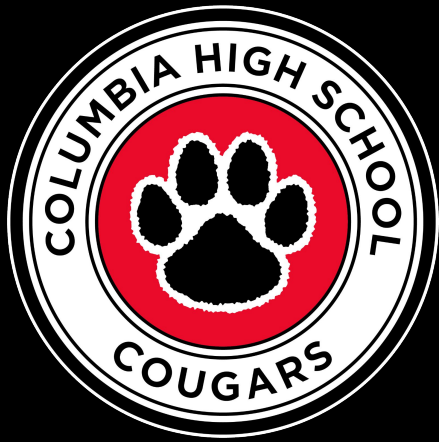
	2021	2022	2023	2024	2025
Total AP Students	617	615	637	708	777
Number of Exams	1,093	1,142	1,153	1,368	1,586
AP Students with Scores 3+	461	494	494	623	696
% of Total AP Students with Scores 3+	74.72	80.33	77.55	87.99	89.58

Year to Year Results



% OF TOTAL AP STUDENTS WITH SCORES 3+





Next Steps: Help Your Child Make the Best Choices

[AP List of Courses](#)



THE SCHOOL DISTRICT OF
**South Orange
& Maplewood**

AP[®]: Start the Conversation

Help your child prepare to talk to a teacher and your counselor about AP[®] courses. Here are some questions to encourage your child to think about:

What AP course is right for me?

Before you talk to a teacher and your counselor, think about what interests you:

- Which courses do you enjoy most in school? In which subjects do you excel?
- What college majors are you considering? What careers excite you?
- Consider your total course load and extra curricular activities.

Ask your counselor and teacher the following questions:

- Which **AP[®]** courses being offered at Columbia High School, do you recommend for me?
- Are there other courses that can help me succeed in **AP[®]** or prepare me for college and careers?

What steps do I need to take?

- What is our school's enrollment deadline?
- May I speak with a student who has taken an **AP[®]** course?
- What can I do next to help me prepare for **AP[®]** courses?

AP[®] Student Commitment

- Students who enroll in any **AP[®]** course are **expected** to complete the course AND are **encouraged** to take the **AP[®]** exam.
- It is suggested that students who choose to enroll in multiple AP courses leave their conference period free to ensure access to academic support.
- Summer assignments are required in most **AP[®]** courses.
- It is expected that students plan their time wisely during the summer in order to submit their **AP[®]** Summer Assignment on the first day of school.
- Spring meetings (May): Review of **AP[®]** course requirements & distribution of the summer assignments.

AP List of Courses



Roles of Parents/Guardians of AP[®] Students

- *Review syllabi for all **AP[®]** Courses with your child.*
- *Encourage and support your child. **AP[®]** classes can be a very stressful and demanding time for students.

How to support your Student

Don't take too many AP Courses...

Each AP class has an expectation of 3-4 hours a week of homework.

This student has 4 AP classes meaning a minimum of 12 hours of homework and studying a week

	Advanced Fitness [REDACTED]
09:00 AM	D11 08:41 AM - 09:29 AM
	Prob & Statistics - HN [REDACTED]
10:00 AM	A315 09:33 AM - 10:15 AM
	Eng Lit/Comp - AP [REDACTED]
	A225 10:19 AM - 11:01 AM
11:00 AM	Lunch - S2 Staff, CHS10 CAFE 11:05 AM - 11:50 AM
12:00 PM	European Hist - AP [REDACTED]
	A252 11:54 AM - 12:39 PM
01:00 PM	French Lang - AP [REDACTED]
	D213 12:43 PM - 01:28 PM
02:00 PM	Spanish Lit - AP [REDACTED]
	D312 01:32 PM - 02:15 PM

Dual Enrollment Opportunities - Projected for 26/27!

NJIT Forensic Science Chemistry THOMAS JEFFERSON UNIVERSITY Carpenters Pre-Apprenticeship Wood 1 Wood 2	RUTGERS / ESSEX COUNTY COLLEGE Health Science Pathway RIDER UNIVERSITY Tomorrow's Teachers Pathway	SETON HALL AP Studio Art AP Art History Art 2 Gender Identity Across Literature Creative Writing Marketing HN Intro to Accounting, Business Law Physics 2 HN Environmental Science HN Global Marketing & more!
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How Do AP and DE Compare?

Pros:

- If you take the exam, you are excused from taking a CHS final in that class.
- Taking an AP class looks very good on college applications.

Cons:

- If you don't earn the score you need, the institution you are applying to won't accept the credit.
- Even if you earn a 4-5 on the exam, the institution might only accept it as credits towards electives.

Pros:

- You will earn credit for the course as long as you pass the class.
- Taking a DE looks great on college applications.

Con:

- You won't experience taking an AP exam.
- How the course is used depends on institution and academic program..

Social Studies AP Course Offerings

Gr. 9	Gr. 10	Gr. 11	Gr. 12
<u>World History*</u>	<u>U.S. History 1</u> > <u>U.S. History II</u>		
		<u>AP African American Studies</u>	
		<u>European History</u>	
		<u>Comparative Gov't & Politics</u>	
		<u>Psychology</u>	
		<u>United States Gov't. & Politics</u>	

*Students in Gr. 9 Honors are invited to take the AP World History exam. The writing scoring rubrics are identical to those used in U.S. and European History.

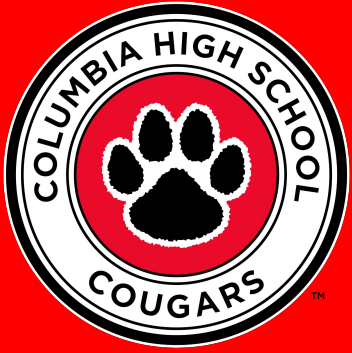
FINE & PERFORMING ARTS AP[®] Course Offerings

1) AP ART HISTORY

2) AP STUDIO ART

- 2D Art & Design
- Drawing

3) AP MUSIC THEORY



English Language Arts Department

ELA AP[®] Course Offerings

- **English 10/AP Seminar - Sophomores**
 - Students build foundational skills in writing, reading, collaboration, research, and presentation, all closely aligned with state English Language Arts (ELA) standards.
- **English Language and Composition - Juniors**
 - Focuses on the development and revision of evidence-based analytic and argumentative writing and the rhetorical analysis of nonfiction texts.
- **English Literature and Composition - Seniors**
 - Focuses on reading, analyzing, and writing about, (fiction, poetry, & drama) from various time periods.

[English 10/AP Seminar College Board Overview](#)

[AP[®] English Language College Board Overview](#)

[AP English Literature College Board Overview](#)



ELA AP[®] Exams

- **English Language and Composition**
 - 3 hours 15 minutes in length
 - 52 - 55 Multiple-choice questions (nonfiction texts)
 - 3 Free-responses (synthesis, rhetorical analysis & argument)
- **English Literature and Composition**
 - 3 hours in length
 - 55 Multiple-choice questions (drama, verse or prose fiction)
 - 3 Free-responses (literary analysis of poem and prose excerpt & analysis of a given theme in a work selected by the student.)



AP Seminar ELA Grade 10

- Why take AP Seminar?
 - You enjoy reading non-fiction, doing critical analysis, and collaborating with group work .
- What to expect?
 - Reading and analyzing articles, studies, and other texts
 - Gathering and combining information from sources
 - Viewing an issue from multiple perspectives
 - Crafting arguments based on evidence

AP LANGUAGE & COMPOSITION - Grade 11

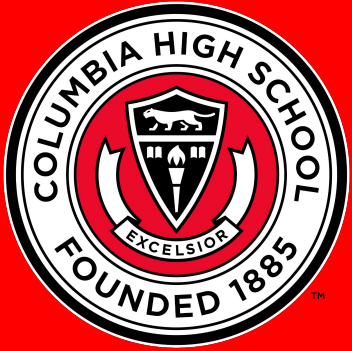
- Why take AP Language & Composition?
 - You enjoy reading non-fiction, doing critical analysis, and writing argumentative essays.
- What to expect?
 - Extremely Reading Intensive
 - Extremely Writing Intensive

AP LITERATURE & COMPOSITION - Grade 12

- Why take AP Literature & Composition?
 - You love reading a variety of genres, doing critical analysis, and writing argumentative essays.
- What to expect?
 - Extremely Reading Intensive
 - Extremely Writing Intensive

THINGS TO CONSIDER...

- Rigor & Pace
 - College Board Approved
- Self-Assessment
 - Commitments (Other AP's, Clubs, Reading Stamina, Writing Skills)
- Passion & Learning Style
- Dual Enrollment Courses: Several of our English courses are dual enrollment courses through Seton Hall.



Social Studies Department

Social Studies AP Program

Gr. 9	Gr. 10	Gr. 11	Gr. 12
<u>World History*</u>	<u>U.S. History 1</u> > <u>U.S. History II</u>		
		<u>AP African American Studies</u>	
		<u>European History</u>	
		<u>Comparative Gov't & Politics</u>	
		<u>Psychology</u>	
		<u>United States Gov't. & Politics</u>	

*Students in Gr. 9 Honors are invited to take the AP World History exam. The writing scoring rubrics are identical to those used in U.S. and European History.

AP Gr. 9-12 Course Sequence

The 1st official AP course begins in grade 10: U.S. History 1 & 2.

- **Two yr. course; students must be enrolled for both years**
- **The AP exam occurs in May of their Jr. year**
- **45% of sophomores and juniors are in APUSH**
- **AP Scores are reported to colleges beginning with this AP course**
- **Our pass rate exceeds 90% every year**

AP Gr. 9-12 Course Sequence

9th graders in Honors or Humanities can take the AP WH exam.

- Every year, roughly 20-25% of 9th graders take the AP WH exam.**
- Our goal for students is exposure to the exam, NOT passing the test.**
- The format and test components are identical to APUSH.**
- Scores are NOT reported to colleges. Consider it 'practice' for the official AP courses such as APUSH.**
- Our pass rate meets/exceeds the global avg. (55%)**

AP History Disciplinary Practices & Skills

Disciplinary Practices

1. Evaluating primary & secondary sources
2. Placing historical developments in context
3. Developing evidence-based arguments

Historical Reasoning Skills

1. Contextualization
2. Comparison
3. Causation
4. Continuity and Change over Time

Gr. 9

Honors World History

The goals of the two-year World History course are:

- to **introduce** disciplinary practices and reasoning skills associated with a rigorous history course in a manner suitable for first yr. HS students and,
- to develop in students the **confidence** to take on challenging coursework and,
- to encourage **risk-taking** within a supportive learning environment.

Student Readiness Indicators

The student earns at **least a B+ avg.** in an Honors-level course. Students who move from Academic > AP struggle mightily.

The student possesses a keen interest to ensure a **lasting commitment to the subject.**

The student is a **consistently resourceful, independent, and responsible learner.**

The student **strives to comprehend, analyze, and evaluate** a variety of materials in history.

The student **actively and constructively participates** in intellectually demanding tasks & discussions

Questions for Students to Consider & Families to Discuss

- **Why do I want to take a particular AP course? What are my academic goals?**
- **Do I really enjoy the course subjects?**
- **How much time will I have available given my other responsibilities-**
 - **Extra-curricular, job, home?**

Helpful Sites

College Board Student Home Page

Applying to College 101

Connect AP to Majors and Careers

College Board: Parents Student loans, Federal Aid, 'How To' webinars

Financial Aid

Financial Aid Checklist

Finding Your College Fit. What is Right for you?

Parent Action Plan: Gr. 10

Planning for College: Big Future



Student Pages by Course

World History

Course Overview

U.S. History

Course Overview

African American Studies

Course Overview

Comparative Govt & Politics

Course Overview

European History

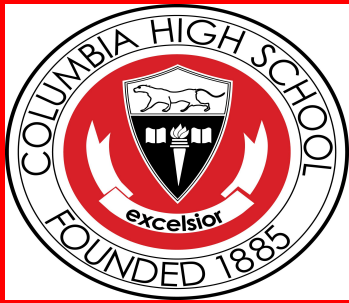
Course Overview

Government & Politics U.S.

Course Overview

Psychology

Course Overview



World Languages Department

WL AP[®] Course Offerings

- AP Chinese/ French/ Spanish Language and Culture
- AP Spanish Literature and Culture

AP[®] Chinese Language and Culture

AP[®] French Language and Culture

AP[®] Spanish Language and Culture

AP[®] Spanish Literature and Culture

WL AP[®] Courses

The AP Chinese, French, and Spanish Language and Culture courses emphasize:

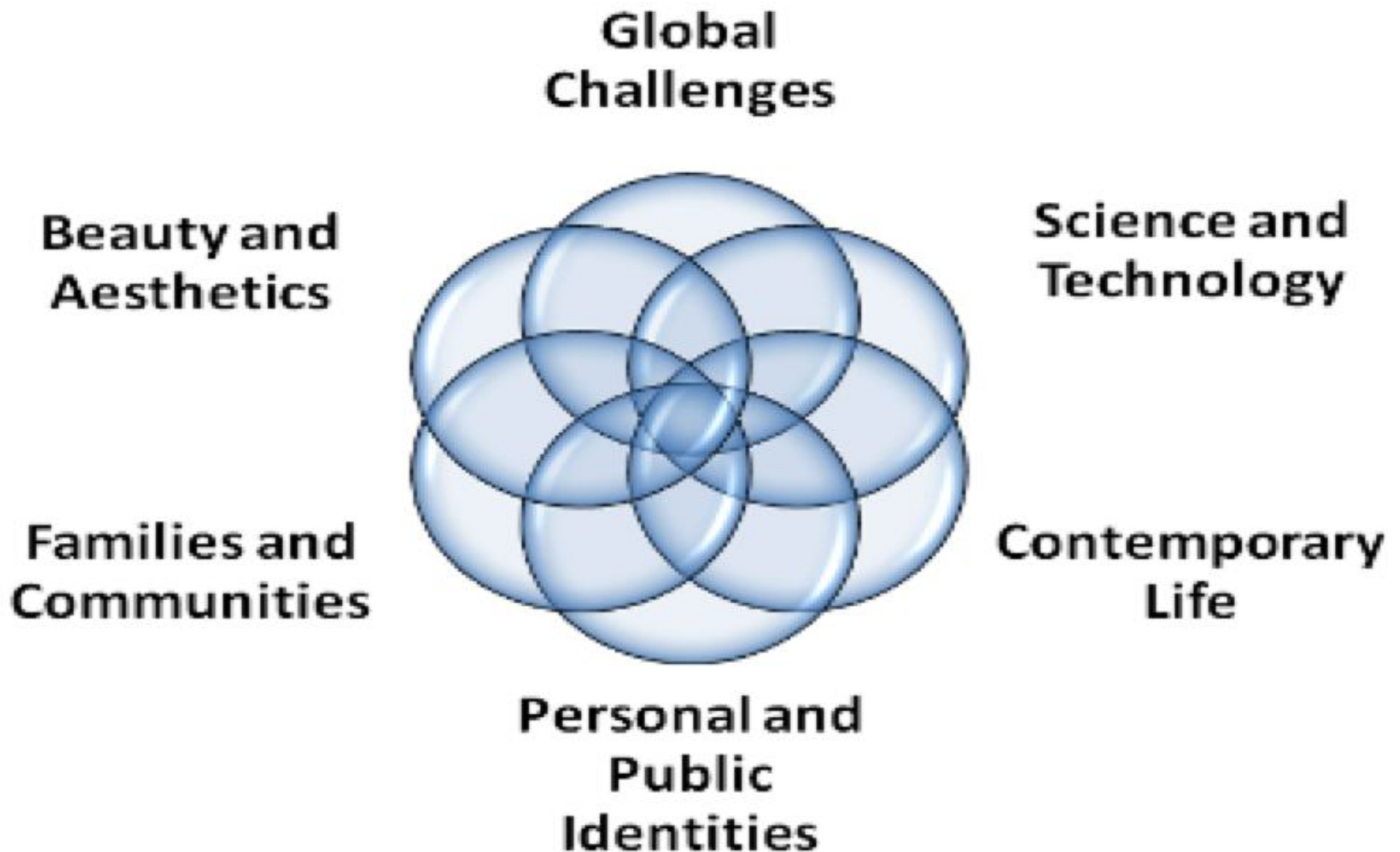
- **Communication** (understanding and being understood by others) by applying **Interpersonal**, **Interpretive**, and **Presentational** skills in real-life situations. This includes vocabulary usage, language control, communication strategies, and cultural awareness.
- The AP Chinese, French, and Spanish Language and Culture courses strive not to overemphasize grammatical accuracy at the expense of communication.
- To best facilitate the study of language and culture, the courses are taught almost exclusively in the Target Language.
- The AP Chinese, French, and Spanish Language and Culture courses engage students in an exploration of culture in both contemporary and historical contexts. The course develops students' awareness and appreciation of **cultural products** (e.g., tools, books, music, laws, conventions, institutions); **practices** (patterns of social interactions within a culture); and **perspectives** (values, attitudes, and assumptions).

WL AP[®] Courses

Upon entering one of these course, students should be able to:

- Control basic grammatical structures and some control of complex grammatical structures.
- Write organized essays to defend their viewpoint on a topic.
- Read authentic sources and accurately summarize content from the sources; it might include inaccuracies.
- Listen to authentic sources and accurately summarize content from the sources; it might include inaccuracies.
- Appropriate vocabulary and use of idiomatic expressions; it might be basic at times.
- Pronunciation, intonation, and pacing are generally comprehensible; errors occasionally impede comprehension.

WL AP[®] Courses: Themes



WL AP[®] Courses: Exam Format

Exam Format

Section I

Multiple Choice — 65 Questions | ~ 1 Hour, 35 Minutes | 50% of Exam Score

- **Part A** — 30 questions; 40 minutes
 - Interpretive Communication: Print Texts
- **Part B** — 35 Questions; ~55 minutes
 - Interpretive Communication: Print and Audio Texts (combined)
 - Interpretive Communication: Audio Texts

Section II

Free Response — 4 Tasks | ~ 1 Hour, 28 Minutes | 50% of Exam Score

- **Part A** — Written Tasks; ~70 minutes
 - **Interpersonal Writing:** Email reply (1 prompt; 15 minutes)
 - **Presentational Writing:** Argumentative essay (1 prompt; ~ 55 minutes total: 15 minutes to review materials plus 40 minutes to write)
- **Part B** — Spoken Responses; ~ 18 minutes
 - **Interpersonal Speaking:** Conversation (5 prompts; 20 seconds for each response)
 - **Presentational Speaking:** Cultural comparison (1 prompt; 4 minutes to prepare, 2 minutes to respond)

WL AP[®] Courses: Exam Format

Exam Format AP Chinese

Section IA: Multiple Choice Listening

25–35 Questions | 20 Minutes | 25% of Exam Score

- This section consists of a variety of audio materials. It is divided into two subsections:
 - Identify the appropriate continuation of a conversation
 - Answer questions about different types of listening stimuli (e.g., transportation announcements, voice messages, school conversations, radio reports, instructions, and uncontextualized dialogues)
- Students will be asked to:
 - Identify the main ideas and supporting details in the audio material
 - Determine the meaning of a variety of vocabulary and deduce the meaning of unfamiliar words
 - Decide the meaning of a text based on cultural and/or interdisciplinary information
 - Infer implied meaning through context

WL AP[®] Courses: Exam Format

Exam Format AP Chinese

Section IB: Multiple Choice Reading

30–40 Questions | 60 Minutes | 25% of Exam Score

- This section consists of a variety of print materials (e.g., notes, emails about a sequence of events, pen pal letters, poster announcements, and short stories).
- Students will be asked to:
 - Identify the main ideas and supporting details in the written material
 - Determine the meaning of a variety of vocabulary and deduce the meaning of unfamiliar words
 - Decide the meaning of a text based on cultural and/or interdisciplinary information
 - Infer implied meaning through context

WL AP[®] Courses: Exam Format

Exam Format AP Chinese

Section IIA: Free Response Written

2 Tasks | 30 Minutes | 25% of Exam Score

- Presentational Writing: Narrate a story suggested by a series of pictures (15 minutes)
- Interpersonal Writing: Read and answer an email message (15 minutes)

Section IIB: Free Response Spoken

2 Tasks | 10 Minutes | 25% of Exam Score

- Interpersonal Speaking: Respond to a series of thematically linked questions as part of a simulated conversation (4 minutes)
- Presentational Speaking: Deliver a presentation on a given aspect of Chinese culture (choose and describe one Chinese cultural practice or product, and explain its significance) (1 prompt; 7 minutes, preparation time: 4 minutes; response time: 2 minutes)

WL AP[®] Spanish Literature and Language

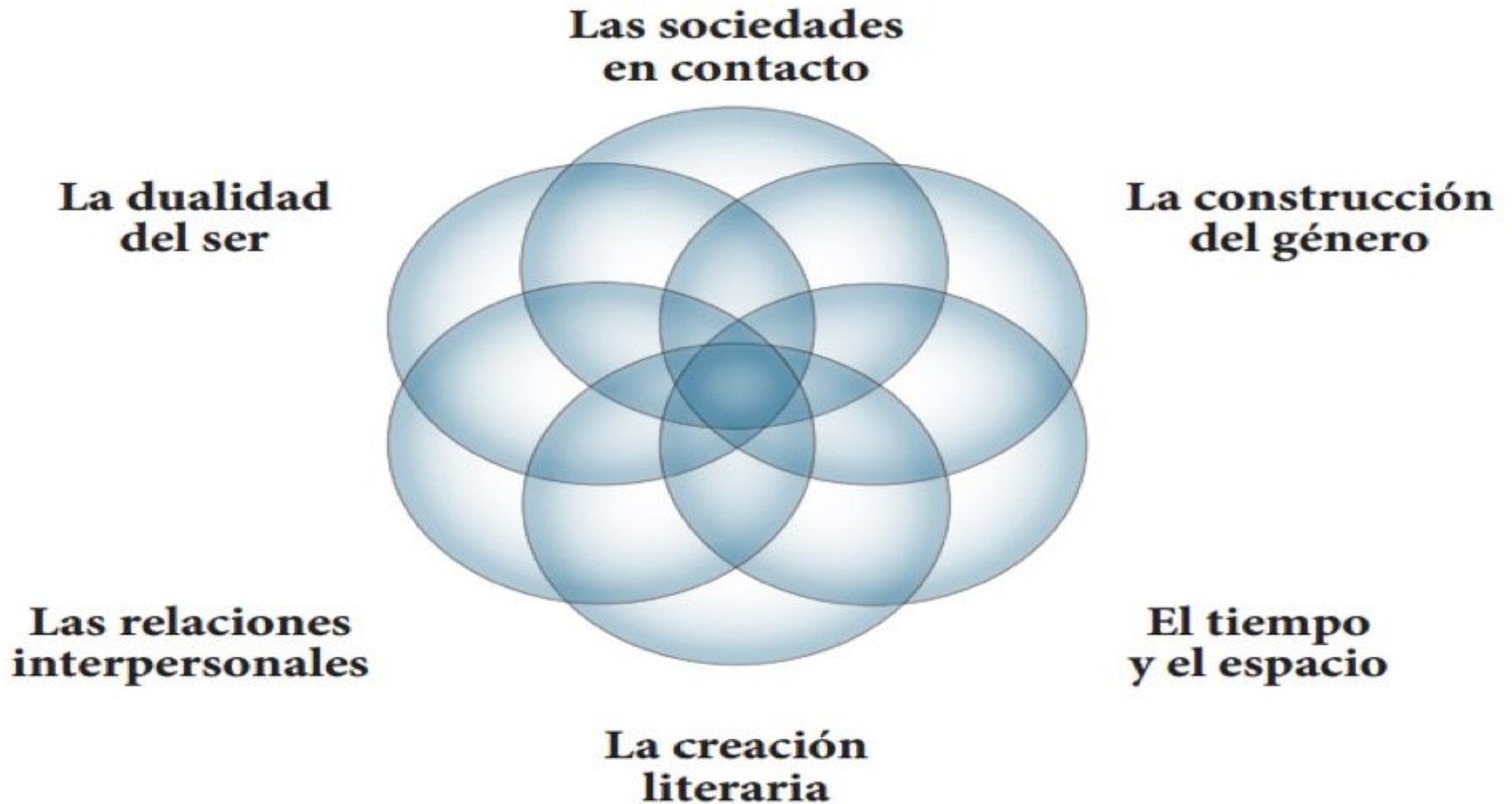
The AP Spanish and Literature course is designed to provide students with a learning experience equivalent to that of an introductory college course in literature written in Spanish.

The course introduces students to the formal study of a representative body of texts from Peninsular Spanish, Latin America, and U.S. Hispanic literature.

This AP course aims to enhance students' formal study of Spanish Literature and Culture to develop their skills for critical reading and analytical writing in Spanish, and to encourage them to make interdisciplinary connections and cultural comparisons.

A wide variety of activities will ensure a better understanding of the literary Works and will provide students with the practice necessary to discuss the literary texts in different formats.

WL AP[®] Spanish Literature and Language: Themes



WL AP[®] Spanish Literature and Language:

Interpersonal, Interpretative and Presentational (Speaking, Writing, Reading & Listening)

Expectations:

The students will be able to participate in oral and written discussions on literary texts presented in class by providing answers that elaborate on the main points and are supported by textual references.

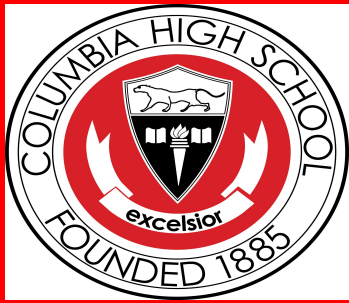
The students demonstrate an understanding of oral and written texts by interpreting main ideas and supporting details. They are able to explain how a text's content relates to sociocultural contexts and how features of the text are characteristic of literary periods, genres, movements, or techniques. They use a variety of relevant literary terms to analyze texts.

The students produce and deliver oral and written presentations that are fundamentally analytical in nature. Oral and written presentations have an explicit statement of purpose (thesis), a coherent structure, and a logical progression of ideas.

WL AP[®] Spanish Literature and Language

AP Spanish Literature and Culture Exam Format

Section		Number of Questions	Percent of Final Score	Time
Section I: Multiple Choice			50%	Approx. 80 minutes
Part A	Interpretive Listening	15 questions	10%	Approx. 20 minutes
Part B	Reading Analysis	50 questions	40%	Approx. 60 minutes
Section II: Free Response				Approx. 100 minutes
Short Answers: Text Explanation		1 prompt	7.5%	Suggested time: 15 minutes
Short Answers: Text and Art Comparison		1 prompt	7.5%	Suggested time: 15 minutes
Essay: Analysis of Single Text		1 prompt	17.5%	Suggested time: 35 minutes
Essay: Text Comparison		1 prompt	17.5%	Suggested time: 35 minutes



STEM Department

Science Technology Engineering & Math

STEM AP[®] Course Offerings

All Course pages are linked in blue boxes

[AP Chemistry](#)

[AP Macroeconomics](#)

[AP Biology](#)

[AP Computer Science A](#)

[AP Calculus AB](#)

[AP Physics 1: Algebra-Based](#)

[AP Computer Science Principles](#)

[AP Calculus BC](#)

[AP Physics 2: Algebra-Based](#)

[AP BUSINESS WITH PERSONAL FINANCE](#)

[AP Statistics](#)

[AP Physics C: Mechanics](#)

[AP Environmental Science](#)

**Career
Kickstart**
Powered by C/AP

[Cybersecurity
Pilot](#)

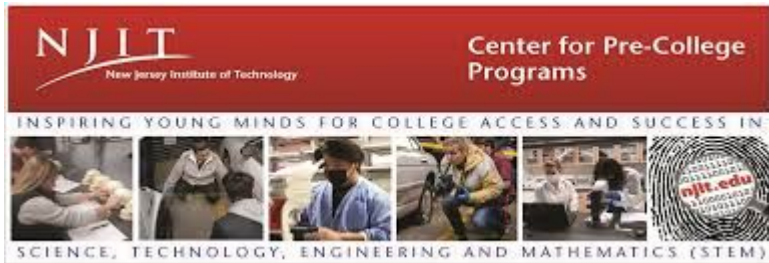
AP Courses may include summer assignment

All enrolled students are expected to register for the test in May.



STEM Dual Enrollment Course Offerings

Dual enrollment is based on staffing that year and may not run.



Forensics



CHS News AM HN
Science Research
Anatomy & Physiology
Global Marketing
Financial Literacy (In person only)
Calculus Honors
Sports & Entertainment Marketing
Business Management and Ethics



AP[®] PHYSICS 1

AP Physics 1 is an algebra-based, introductory college-level physics course. Students cultivate their understanding of physics through inquiry-based investigations as they explore these topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion, electric charge and electric force, DC circuits, and mechanical waves and sound.

Skills needed for this class:

Units of Instruction

Unit 1: *Kinematics*

Unit 2: *Force and Translational Dynamics*

Unit 3: *Work, Energy, and Power*

Unit 4: *Linear Momentum*

Unit 5: *Torque and Rotational Dynamics*

Unit 6: *Energy and Momentum of Rotating Systems*

Unit 7: *Oscillations*

Unit 8: *Fluids*

Prerequisite: Completion or concurrent enrollment in Algebra 2

Upon completion of this course, a student can take AP Physics 2 or AP Physics C (or take another science class).



AP[®] PHYSICS 2

AP Physics 2, This course is equivalent to a second-semester college course in algebra-based physics.. The course covers fluid mechanics, thermodynamics, electricity and magnetism, optics, and atomic and nuclear physics. Incoming students should have a solid understanding of AP Physics 1 topics.

Units
<i>Unit 1: Fluids</i>
<i>Unit 2: Thermodynamics</i>
<i>Unit 3: Electric Force, Field, and Potential</i>
<i>Unit 4: Electric Circuits</i>
<i>Unit 5: Magnetism and Electromagnetic Induction</i>
<i>Unit 6: Geometric and Physical Optics</i>
<i>Unit 7: Quantum, Atomic, and Nuclear Physics</i>

Skills needed for this class:

**Prerequisite: Completion of Honors Physics 1 or AP Physics 1 course.
Pre or corequisite Precalculus**

AP[®] PHYSICS C Mechanics 1st half

AP Physics C: Mechanics

Explore concepts such as kinematics; Newton's laws of motion, work, energy, and power; systems of particles and linear momentum; rotation; oscillations; and gravitation. You'll do hands-on laboratory work and in-class activities to investigate phenomena and use calculus to solve problems.

Note: Save your lab notebooks and reports; colleges may ask to see them before granting you credit.

Course Content

Unit 1: Kinematics

Unit 2: Newton's Laws of Motion

Unit 3: Work, Energy, and Power

Unit 4: Systems of Particles and Linear Momentum

Unit 5: Rotation

Unit 6: Oscillations

Unit 7: Gravitation

Skills needed for this class:

Calculus

First half of the year (4 months)

Corequisite or prerequisite of Calculus is helpful

AP[®] PHYSICS C Electricity & Magnetism 2nd half

AP Physics C: Electricity and Magnetism

Explore concepts such as electrostatics, conductors, capacitors and dielectrics, electric circuits, magnetic fields, and electromagnetism. You'll do hands-on laboratory work and in-class activities to investigate phenomena and use calculus to solve problems.

Note: Save your lab notebooks and reports; colleges may ask to see them before granting you credit.

Course Content

Unit 1: Electrostatics

Unit 2: Conductors, Capacitors, Dielectrics

Unit 3: Electric Circuits

Unit 4: Magnetic Fields

Unit 5: Electromagnetism

Skills needed for this class:

Builds on Algebra based Physics with Calculus

Second half of the year (4 months)

Corequisite or prerequisite of Calculus is helpful



What is the difference between AP Physics

The **AP Physics 1 course** is equivalent to a first-semester college course in algebra-based physics. At the time you start taking this course, it's beneficial to have completed a course in geometry and be taking (or have completed) a course in algebra 2.

The **AP Physics 2 course** is equivalent to a second-semester college course in algebra-based physics. At the time you start taking this course, you should have already taken AP Physics 1 or Physics 1 Honors and be taking (or have completed) a course in precalculus.

The AP Physics 1 and AP Physics 2 courses contain similar content to what is taught in AP Physics C: Mechanics and AP Physics C: Electricity and Magnetism. However, **both AP Physics C courses are calculus-based**. At the time you start taking either AP Physics C course, you should be taking (or have completed) a calculus course.

- AP Physics 1 = Broad conceptual base, algebra-friendly.
- AP Physics 2 = Continuation, real-world applications.
- AP Physics C: Mechanics = Calculus-powered precision.
- AP Physics C: E&M = Advanced problem-solving for future engineers.



Which Course Should You Take?

Student Type	Math Level	Recommended Course	Why
10th–12th grader strong in math	Algebra 2	AP Physics 1	Builds conceptual foundation; great intro to AP science
11th grader who took Physics 1	Algebra 2	AP Physics 2	Deepens understanding with advanced applications
11th–12th grader taking Calculus AB	Calculus AB	AP Physics C: Mechanics	Rigorous preparation for STEM majors
12th grader who completed Calculus AB	Calculus BC	AP Physics C: E&M	College-level E&M; prepares for physics or engineering degree
Student interested in health or environmental careers	Algebra 2	AP Physics 2	Connects physics to biological and environmental systems

AP[®] BIOLOGY

Study the core scientific principles, theories, and processes that govern living organisms and biological systems. You'll do hands-on laboratory work to investigate natural phenomena.

Course Content

Unit 1: Chemistry of Life

Unit 2: Cell Structure and Function

Unit 3: Cellular Energetics

Unit 4: Cell Communication and Cell Cycle

Unit 5: Heredity

Unit 6: Gene Expression and Regulation

Unit 7: Natural Selection

Unit 8: Ecology

Skills needed for this class:

Reading Intensive

Analytical thinking

Inquiry Based experimentation

AP[®] CHEMISTRY

Learn about the fundamental concepts of chemistry including structure and states of matter, intermolecular forces, and reactions. You'll do hands-on lab investigations and use chemical calculations to solve problems.

Note: Save your lab notebooks and reports; colleges may ask to see them before granting you credit.

Skills needed for this class:

Course Content

Unit 1: Atomic Structure and Properties

Unit 2: Molecular and Ionic Compound Structure and Properties

Unit 3: Intermolecular Forces and Properties

Unit 4: Chemical Reactions

Unit 5: Kinetics

Unit 6: Thermodynamics

Unit 7: Equilibrium

Unit 8: Acids and Bases

Unit 9: Applications of Thermodynamics

**Pattern Recognition, and Strong
Reasoning Skills
Data and graphical analysis
Corequisite of Algebra 2**

AP[®] ENVIRONMENTAL SCIENCE

Explore and investigate the interrelationships of the natural world and analyze environmental problems, both natural and human-made. You'll take part in laboratory investigations and field work.

Note: Save your lab notebooks and reports; colleges may ask to see them before granting you credit.

Course Content

Unit 1: The Living World: Ecosystems

Unit 2: The Living World: Biodiversity

Unit 3: Populations

Unit 4: Earth Systems and Resources

Unit 5: Land and Water Use

Unit 6: Energy Resources and Consumption

Unit 7: Atmospheric Pollution

Unit 8: Aquatic and Terrestrial Pollution

Unit 9: Global Change

Skills needed for this class:

Reading intensive

Identify and analyze environmental problems, risks and create solutions.

Interdisciplinary skills:

**Debate about political, economic, social
Impacts**

Problem solving Math Aptitude



AP PreCALCULUS

This is an advanced placement course in Calculus and the College Board determines the curriculum. AP Precalculus centers on functions modeling dynamic phenomena. This research-based exploration of functions is designed to better prepare students for college-level calculus and provide grounding for other mathematics and science courses. In this course, students study a broad spectrum of function types that are foundational for careers in mathematics, physics, biology, health science, business, social science, and data science. Furthermore, as **AP Precalculus may be the last mathematics course of a student's secondary education, the course is structured to provide a coherent capstone experience rather than exclusively focusing on**

1

Prerequisite: Successful completion of Algebra 2

Seniors Only

Units

Unit 1: Polynomial and Rational Functions

Unit 2: Exponential and Logarithmic Functions

Unit 3: Trigonometric and Polar Functions

Unit 4: Functions Involving Parameters, Vectors, and Matrices

AP CALCULUS (AB)

Explore the concepts, methods, and applications of differential and integral calculus. You'll work to understand the theoretical basis and solve problems by applying your knowledge and skills.

Course Content

Unit 1: Limits and Continuity

Unit 2: Differentiation: Definition and Fundamental Properties

Unit 3: Differentiation: Composite, Implicit, and Inverse Functions

Unit 4: Contextual Applications of Differentiation

Unit 5: Analytical Applications of Differentiation

Unit 6: Integration and Accumulation of Change

Unit 7: Differential Equations

Unit 8: Applications of Integration

Skills needed for this class:

Completion of Precalculus honors helps to support success in this class

Hard work

Independent practice

AP CALCULUS (BC)

Explore the concepts, methods, and applications of differential and integral calculus, including topics such as parametric, polar, and vector functions, and series. You'll perform experiments and investigations and solve problems by applying your knowledge and skills.

Course Content

Unit 1: Limits and Continuity

Unit 2: Differentiation: Definition and Fundamental Properties

Unit 3: Differentiation: Composite, Implicit, and Inverse Functions

Unit 4: Contextual Applications of Differentiation

Unit 5: Analytical Applications of Differentiation

Unit 6: Integration and Accumulation of Change

Unit 7: Differential Equations

Unit 8: Applications of Integration

Unit 9: Parametric Equations, Polar Coordinates, and Vector-Valued Functions

Unit 10: Infinite Sequences and Series

What's the difference?

All topics from AB are in BC but with a few additions including two more sections.



ROUTES TO CALCULUS



Grade	8	9	10	11	12
Grade	7	8	9	10	11
Grade	9	Summer	10	11	12
		10	10	11	12
		10	Summer	11	12

AP STATISTICS

Learn about the major concepts and tools used for collecting, analyzing, and drawing conclusions from data. You'll explore statistics through discussion and activities, and you'll design surveys and experiments.

Course Content

Unit 1: Exploring One-Variable Data

Unit 2: Exploring Two-Variable Data

Unit 3: Collecting Data

Unit 4: Probability, Random Variables, and Probability Distributions

Unit 5: Sampling Distributions

Unit 6: Inference for Categorical Data: Proportions

Unit 7: Inference for Quantitative Data: Means

Unit 8: Inference for Categorical Data: Chi-Square

Unit 9: Inference for Quantitative Data: Slopes

Skills needed for this class:

EXCELLENT for STEM Minded students

Greater focus on reasoning & logic

More critical reading and writing

***Very applicable to science related fields in future**

AP COMPUTER SCIENCE PRINCIPLES

Learn the principles that underlie the science of computing and develop the thinking skills that computer scientists use. You'll work on your own and as part of a team to creatively address real-world issues using the tools and processes of computation.

Skills needed for this class:

Course Content

Big Idea 1: Creative Development

Big Idea 2: Data

Big Idea 3: Algorithms and Programming

Big Idea 4: Computer Systems and Networks

Big Idea 5: Impact of Computing

Digital portfolio & Create a performance task

Coding with Python applications

AP Cyber Security Networking

This is a full-year high school course that covers the fundamentals of networking. It is equivalent to a college-level Introduction to Networking course. The course interweaves essential networking concepts with relevant, hands-on problem-solving activities to maximize students' understanding of network hardware and configuration, the use of protocols to enable reliable and accurate transmission of data between different hosts around the world, and relevant security practices that secure the transmission of data both within and between computer networks.

AP Test Plus Industrial Credentials

UNIT 1

Introduction to Cybersecurity and Networking

- Introduction to Cybersecurity
- Personal Digital Security
- Enterprise Security
- Introduction to Computer Systems
- Introduction to Command Line
- Introduction to Networks
- SOHO vs. Enterprise Networks

UNIT 2

Layers, Protocols, and Addressing

- OSI and TCP/IP Models
- Introduction to Protocols and Servers
- Cabling
- Network Topologies
- Physical Addressing
- Logical Addressing
- IP Configuration

UNIT 3

Configuring a LAN

- Switching
- Switch Security
- More on Protocols
- LAN Configuration and Troubleshooting

UNIT 4

Advanced LAN Topics

- IPv4 Addressing
- Routing
- Subnetting
- Wireless Networks
- Network Troubleshooting

UNIT 5

Network Security

- Introduction to Security Controls
- Physical and Administrative Controls
- Technical Controls: Firewalls
- Technical Controls: Network Segmentation
- Technical Controls: Network Monitoring
- Defense in Depth

AP COMPUTER SCIENCE A

Get familiar with the concepts and tools of computer science as you learn a subset of the Java programming language. You'll do hands-on work to design, write, and test computer programs that solve problems or accomplish tasks.

Skills needed for this class:

Course Content

Unit 1: Primitive Types

Unit 2: Using Objects

Unit 3: Boolean Expressions and if Statements

Unit 4: Iteration

Unit 5: Writing Classes

Unit 6: Array

Unit 7: ArrayList

Unit 8: 2D Array

Unit 9: Inheritance

Unit 10: Recursion

Use of Java

Coding intensive

Analyze, writing and test coding

What's the difference?

- Comp Sci A - constant coding, more specificity
- Comp Sci Principles - some coding, broader aspects of computing



AP Macroeconomics

Explore the principles of economics that apply to an economic system as a whole. You'll use graphs, charts, and data to analyze, describe, and explain economic concepts.

Course Content

Unit 1: Basic Economic Concepts

Unit 2: Economic Indicators and the Business Cycle

Unit 3: National Income and Price Determination

Unit 4: Financial Sector

Unit 5: Long-Run Consequences of Stabilization
Policies

Unit 6: Open Economy—International Trade and
Finance

Skills needed for this class:

Reading and writing intensive

Analytical skills and application of math

AP Personal Finance

AP Business with Personal Finance is an introductory, college-level business and personal finance course. Students explore the business disciplines of entrepreneurship, marketing, finance, accounting, and management through real-world business application, case studies, and project-based learning. In addition, students learn and apply all the National Standards for Personal Financial Education created by the Council for Economic Education and the Jump\$tart Coalition for Personal Financial Literacy.

Course Units

Unit 1: Businesses, Competition, and New Ideas

Unit 2: Marketing

Unit 3 – Part 1: Personal Saving and Borrowing

Unit 3 – Part 2: Business Finance and Accounting

Unit 4: Management and Strategy

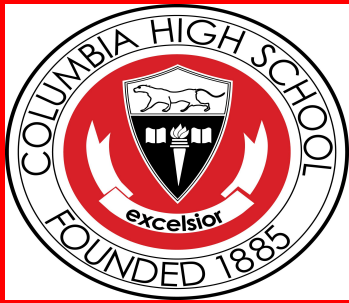
Unit 5: Personal Goals, Budgeting, and Investing

Quantitative reasoning: interpreting tables, interest formulas, amortization, compound growth

Critical analysis: comparing financial products and evaluating trade-offs

Application of economic principles: opportunity cost, inflation, interest, and risk management

Communication: interpreting financial documents, statements, and presenting financial plans



Fine & Performing Arts Department



FAQs: <https://tinyurl.com/v8kpt8t>

FINE ARTS AP[®] Course Offerings

Art History - AP

Year, 5.0 credits, Level: 6, Prerequisite: recommended that student have taken prior art courses Grades 10-12

The Advanced Placement program in Art History introduces students to 30,000 years of history in art and architecture from around the world. This course is an introduction to subjects normally grouped under the heading humanities, and is often the high school student's first exposure to discourse concerning religion, philosophy, cultural history and anthropology, all of which are examined through the visual/cultural evidence contained in art history. Issues regarding visual perception, the need for narrative, the nature of materials and technology, and the understanding of the human body are a major focus throughout the course. The evolving relationships between patrons, artists, and audience wind their way through each art historical period as well. Students learn to identify iconography, media, stylistic traits and the function of art in each society that they study. The nature of representation, idealization, realism, illusionism, modernism and post-modernism are defined through the study of specific artworks.

AP Art History College Board Overview

<https://tinyurl.com/v8kpt8t>



FINE ARTS AP[®] Exams

AP Art History

The following big ideas serve as the foundation of the course, enabling students to create connections across course concepts and develop deeper conceptual understanding:

- Big Idea 1: Culture
- Big Idea 2: Interactions With Other Cultures
- Big Idea 3: Theories and Interpretations
- Big Idea 4: Materials, Processes, and Techniques
- Big Idea 5: Purpose and Audience

FINE ARTS AP[®] Exams

AP Art History

The art historical thinking skills that students develop during the course:

- Visual Analysis ♦ Analyze visual elements of works of art.
- Contextual Analysis ♦ Analyze contextual elements of a work of art, and connect contextual and visual elements of a work of art.
- Comparison of Works of Art ♦ Compare two or more works of art.
- Artistic Traditions ♦ Analyze the relationships between a work of art and a related artistic tradition, style, and/or practice.
- Visual Analysis of Unknown Works ♦ Analyze visual elements of a work of art beyond the image set.
 - Attribution of Unknown Works ♦ Attribute works of art.
- Art Historical Interpretations ♦ Analyze art historical interpretations.
 - Argumentation ♦ Develop and support art historical arguments.

FINE ARTS AP[®] Exams

AP Art History

Content Area	Percent of Curriculum and Exam (Number of Works)
1. Global Prehistory, 30,000–500 B.C.E.	~4% (11 works)
2. Ancient Mediterranean, 3500 B.C.E.–300 C.E.	~15% (36 works)
3. Early Europe and Colonial Americas, 200–1750 C.E.	~20% (51 works)
4. Later Europe and Americas, 1750–1980 C.E.	~22% (54 works)
5. Indigenous Americas, 1000 B.C.E.–1980 C.E.	~6% (14 works)
6. Africa, 1100–1980 C.E.	~6% (14 works)
7. West and Central Asia, 500 B.C.E.–1980 C.E.	~4% (11 works)
8. South, East, and Southeast Asia, 300 B.C.E.–1980 C.E.	~8% (21 works)
9. The Pacific, 700–1980 C.E.	~4% (11 works)
10. Global Contemporary, 1980 C.E. to Present	~11% (27 works)
Total	100% (250 works of art)

FINE ARTS AP[®] Exams

AP Art History

Assessment Overview

The AP Art History Exam assesses student understanding of the skills and learning objectives outlined in the course framework.

The exam is 3 hours long and includes 80 multiple-choice questions and 6 free response questions.

CURRENTLY SCHEDULED EXAM DATE: Thursday, May 14, 2026, 8 AM Local

Sample Multiple-Choice Question

Despite Buddhism's pacifist tradition, both the Longmen caves and the temple at Todai-ji include guardian statues to

- (A) commemorate important military victories
- (B) ensure the dominance of Buddhism
- (C) deter the laity from entering the temple
- (D) protect Buddhist values and beliefs

FINE ARTS AP[®] Course Offerings

Music Theory - AP

Year, 5.0 credits, Level: 6

Prerequisite: Students should be able to read and write musical notation, and it is strongly recommended that the student has acquired at least basic performance skills in voice or on an instrument. Grades 10-12

AP Music Theory is a college-level music course designed to develop a student's ability to recognize, understand, communicate and compose within the basic materials and processes of The Common Practice Era. The achievement of these goals will be approached through instruction in music history (context), vocabulary development, ear training (sight singing and dictation,) notational skills, part-writing, formal analysis, composition and exposure to a wide variety of music literature. The student's ability to read and write musical notation is fundamental to success in this course. It should also be assumed that the student has acquired at least basic performance skills through formal study of voice or other musical instrument. Enrollment in a performance ensemble is not a requirement, although it is recommended.

AP Music Theory College Board Overview

<https://tinyurl.com/v8kpt8t>



FINE ARTS AP[®] Course Offerings

The 4 Core Skills

Analyze Performed Music

Take musical terms, concepts, and relationships and apply them to performed music (aural).

Analyze Notated Music

Use musical terms, concepts, and relationships and apply them to notated music (written).

Convert Between Performed and Notated Music

Convert music between aural and written forms using conventions of musical notation and performance.

Complete Based on Cues (Not Assessed in multiple-choice questions)

Following 18th-century stylistic norms students complete music based on cues.

FINE ARTS AP[®] Course Offerings

The Units

1. **Music Fundamentals 1:** Pitch, Major Scales and Key Signatures, Rhythm, Meter, and Expressive Elements
2. **Music Fundamentals 2:** Minor Scales and Key Signatures, Melody, Timbre, and Texture
3. **Music Fundamentals 3:** Triads and Seventh Chords
4. **Harmony and Voice Leading I:** Chord Function, Cadence, and Phrase
5. **Harmony and Voice Leading II:** Chord Progressions and Predominant Function
6. **Harmony and Voice Leading III:** Embellishments, Motives, and Melodic Devices
7. **Harmony and Voice Leading IV:** Secondary Function
8. **Modes and Form**

FINE ARTS AP[®] Exams

AP MUSIC THEORY SKILLS & CONCEPTS

- **Big Idea 1: Pitch**
 - **Big Idea 2: Rhythm**
 - **Big Idea 3: Form**
 - **Big Idea 4: Musical Design**
-
- **Analyze Performed Music:** Apply musical terms, concepts, and relationships to performed music (aural).
 - **Analyze Notated Music:** Apply musical terms, concepts, and relationships to notated music (written).
 - **Convert Between Performed and Notated Music:** Apply conventions of musical notation and performance in converting music between aural and written forms.
 - **Complete Based on Cues:** Complete music based on cues, following 18th-century stylistic norms.

FINE ARTS AP[®] Exams

Assessment Overview

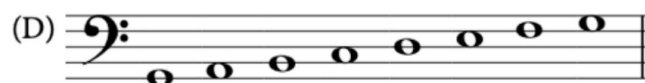
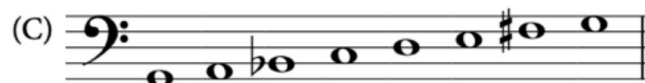
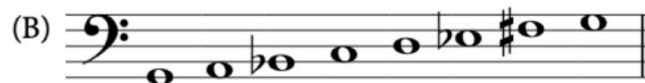
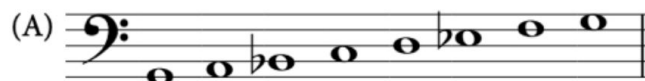
The AP Music Theory Exam assesses student understanding of the skills and learning objectives outlined in the course framework.

The exam is just under 3 hours long and includes 75 multiple-choice questions, 7 free-response questions, and 2 sight-singing tasks.

CURRENTLY SCHEDULED EXAM DATE: Mon, May 11, 2026, 12 PM Local

Sample Multiple-Choice Question:

Which of the following is a correctly notated natural minor scale?



FINE ARTS AP[®] Course Offerings

Studio Art – AP

Studio Art – AP (2D Art & Design)

LINK: [AP 2-D Art and Design Portfolio](#)

Year, 5.0 credits, Prerequisites: Art 2, 3 or 4, and portfolio review

Grades 11-12

If you are in this class, you are a dedicated artist with at least 2-3 years of art or a strong body of past work, and you want to take your work to the next level. AP (Advanced Placement) 2-D design is a program administered by the College Board to provide highly motivated high school students with an opportunity to earn college credit in art with a drawing focus. Students will submit a 2-D design portfolio to the College Board with work that focuses on the use of 2-D elements and principles, including point, line, shape, plane, layer, form, space, texture, color, value, opacity, transparency, time, unity, variety, rhythm, movement, proportion, scale, balance, emphasis, contrast, repetition, figure/group relationship, connection, juxtaposition, and hierarchy. You will also consider how materials, processes, and ideas can be used to make work that exists on a flat surface. AP 2-D design is not based on a written exam; instead, students submit a portfolio in May to include five selected works (demonstrating drawing skills and synthesis of materials, processes, and ideas) and 15 sustained investigation images (demonstrating drawing skills, practice, experimentation, and revision, as well as synthesis of materials, processes, and ideas) based on an investigation of the student's choosing.

Studio Art – AP (Drawing)

LINK: [AP Drawing](#)

Year, 5.0 credits, Prerequisites: Art 2, 3 or 4, and portfolio review

Grades 11-12

If you are in this class, you are a dedicated artist with at least 2-3 years of art or a strong body of past work, and you want to take your work to the next level. AP (Advanced Placement) Drawing is a program administered by the College Board to provide highly motivated high school students with an opportunity to earn college credit in art with a drawing focus. Students will submit a drawing portfolio to the College Board with work that focuses on the use of mark-making, line, surface, space, light and shade, and composition. AP Drawing is not based on a written exam; instead, students submit a portfolio in May to include five selected works (demonstrating drawing skills and synthesis of materials, processes, and ideas) and 15 sustained investigation images (demonstrating drawing skills, practice, experimentation, and revision, as well as synthesis of materials, processes, and ideas) based on an investigation of the student's choosing. Students should consider marks that can be used to make drawings, the arrangement of marks, the materials and processes used to make marks, and relationships of marks and ideas.

FAQs: <https://tinyurl.com/v8kpt8t>

FINE ARTS AP[®] Exams

AP 2-D Art and Design Portfolio

About the Course

Develop your 2-D skills through materials and processes such as graphic design, photography, collage, printmaking, fashion illustration, collage, and others. You'll create artwork that reflects your own ideas and skills and what you've learned.

Big Idea 1: Investigate Materials, Processes, and Ideas

You'll learn how artists and designers decide what to make and why and how to make it.

Big Idea 2: Make Art and Design (Practicing, Experimenting, Revising)

You'll study the processes and techniques that artists and designers use when they create work.

Big Idea 3: Present Art and Design to Communicate Ideas

You'll explore why and how artists and designers present their work to viewers.

FAQs: <https://tinyurl.com/v8kpt8t>

FINE ARTS AP[®] Exams

AP 2-D Art and Design Portfolio

Portfolio Format

The AP Art and Design portfolios each consist of two sections: (a) Sustained Investigation and (b) Selected Works. New in 2022-23 all portfolios (2-D, 3-D, and Drawing) will be submitted digitally only. AP 2-D and AP Drawing students will no longer mail their physical work to the AP Program.

Sustained Investigation—Section 1

15 digital images; some may be details or process images | **60% of portfolio score**

Students will submit images and writing to document their inquiry-guided investigation through practice, experimentation, and revision:

- 15 digital images that include works of art and design and process documentation.
- Typed responses to prompts, providing information about the questions that guided their investigation and how they practiced, experimented, and revised, guided by their questions.

FAQs: <https://tinyurl.com/v8kpt8t>

FINE ARTS AP[®] Exams

Advanced Placement Studio Art

Selected Works—Section 2

5 works | **40% of portfolio score**

Students must work with their teacher or AP coordinator to assemble their physical works. Students will submit digital images of their work and commentary online to demonstrate skillful synthesis of materials, processes, and ideas:

- 5 works with commentary identifying the materials, processes, and ideas used.
- Works may come from the Sustained Investigation section, but they do not have to.

FAQs: <https://tinyurl.com/v8kpt8t>

FINE ARTS AP[®] Exams

AP Drawing

Course Overview

AP Drawing is an introductory college-level drawing course. Students refine and apply drawing skills to ideas they develop throughout the course.

All AP Art and Design portfolios follow a two-section structure where you will demonstrate foundational knowledge and a range of understanding of visual methods. Each section is graded on a 5-point scale and contributes to the final portfolio score; same as 2-D Design Portfolio.

You'll also learn similar skills in all three courses, including:

- Investigating the materials, processes, and ideas that artists and designers use.
- Communicating your ideas about works of art and design.
- Practicing, experimenting, and revising as you create your own work.

FAQs: <https://tinyurl.com/v8kpt8t>

FINE ARTS AP[®] Exams

How Are AP 2-D Art and Design and AP Drawing Different?

The topics covered in the three courses vary, as do the technical skills and knowledge you're expected to show in your final portfolio. See the table below for examples of the mediums where you'll develop and demonstrate these abilities throughout the course and in your portfolio. **SCHEDULED PORTFOLIO DATE: Fri, May 8, 2026, by 8PM Local**

AP 2-D Art & Design	AP Drawing
• Graphic design • Digital imaging • Photography • Collage • Fabric design • Weaving • Fashion design • Illustration • Painting • Printmaking	• Drawing (analog or digital) • Painting • Printmaking • Mixed media work

FAQs: <https://tinyurl.com/v8kpt8t>

FINE ARTS AP[®] Exams

Advanced Placement Studio Art

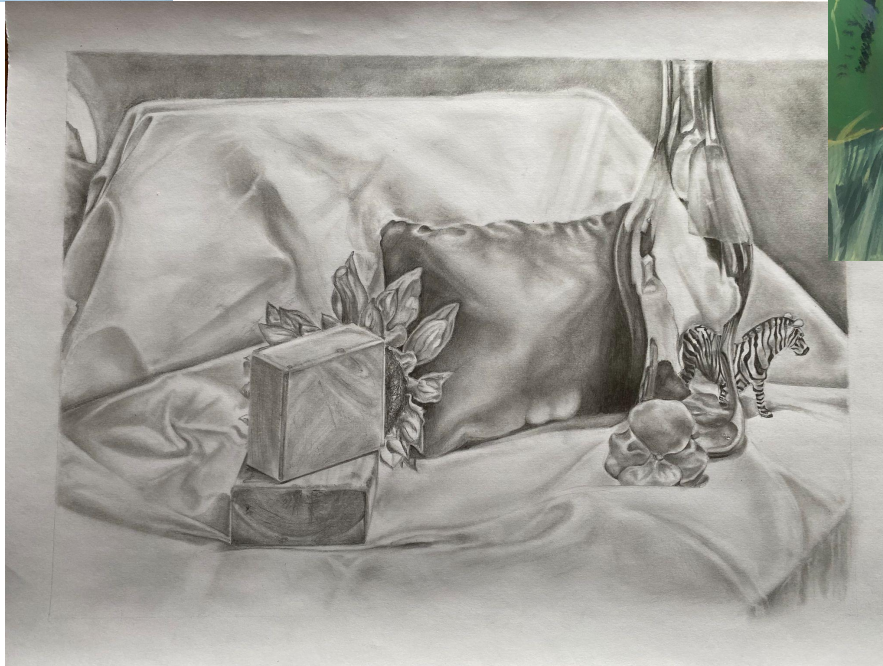
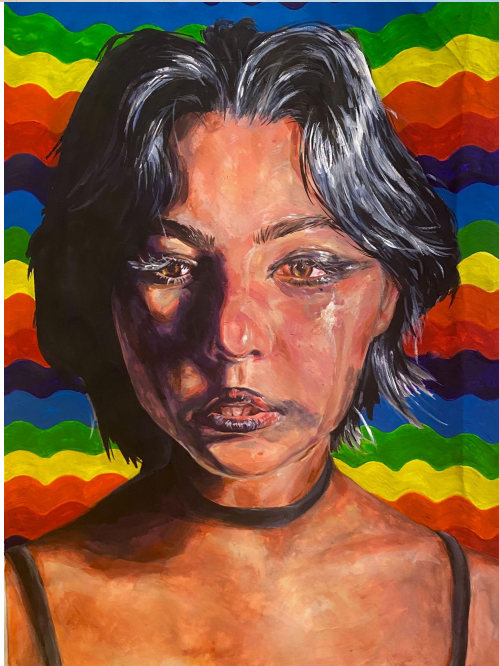
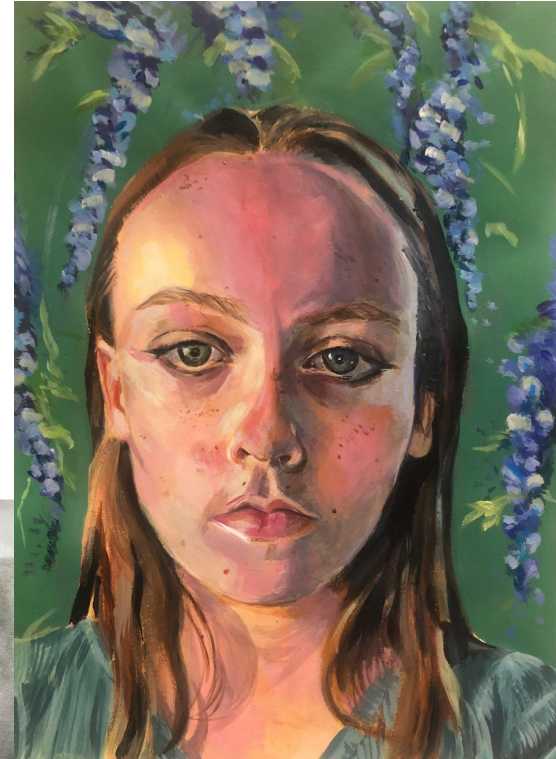
Student Samples and Scoring Commentaries from the 2021 Portfolio Exam

Selected Works	Sustained Investigation Scoring	Score Distributions
Scoring Guidelines – Selected Works Sample 1 – Score of 3 Sample 2 – Score of 4 Sample 3 – Score of 5	Scoring Guidelines – Sustained Investigation Sustained Investigation - Row A Sample Portfolio – Score of 2 Sample Portfolio – Score of 3 Sustained Investigation - Row B Sample Portfolio – Score of 2 Sample Portfolio – Score of 3 Sustained Investigation - Row C Sample Portfolio – Score of 2 Sample Portfolio – Score of 3 Sustained Investigation - Row D Sample Portfolio – Score of 2 Sample Portfolio – Score of 3	Chief Reader Report Scoring Statistics Score Distributions

AP[®] Studio Art Portfolio Samples



Student
samples from
AP Studio Art
Class 2021



AP[®] Exams

Assignment 1

Prompt:
Draw a
family
portrait. Plot
twist: It is a
family of
insects or
animals.



AP[®] Exams

Assignment 2

Prompt:

Draw two sports figures- one in a dynamic pose, one in a static pose.



AP[®] Exams

Assignment 3

Prompt:
Draw a
watch or
another
piece of
jewelry.



AP[®] Results 2025

AP ART HISTORY
42 Students (73.8%
received 3 or
higher)

Mean Scores

3.52 CHS

3.13 New Jersey

3.11 Global

AP STUDIO ART
20 Students Design
18 Students Drawing
(100% Design,
94.4% Drawing
received 3 or higher)

Mean Scores

3.60 CHS Design

3.39 New Jersey

3.41 Global

3.50 CHS Drawing

3.58 New Jersey

3.43 Global

AP MUSIC
THEORY
17 students
(82.4% received 3
or higher)

Mean Scores

3.47 CHS

3.13 New Jersey

3.01 Global

Questions & Answers