



# Beacon High School



Electives 2025-2026



# ART/TECHNOLOGY

---

Studio Art

Interior Design

Ceramics

Textiles I & II

AP Drawing

Architectural Design

Digital Art I & II

Cartooning & Animation

AP Art History

Photography I & II

TV Production I & II

Video Game Design

New Media

DIA I & II

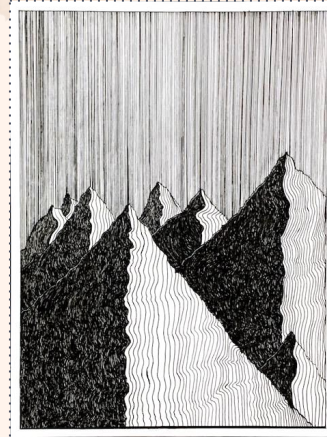
Drawing & Painting



# Beacon High School Studio Art Program 2023-24 Mrs. Charter

This course is designed for students beginning their study of art at the high school level and a requirement for graduation. Studio Art will focus on fundamental drawing skills, color theory, and basic concepts, media, and techniques. This course will expose students to a variety of art making processes and periods of art history to further develop the skills for further art study.

Our art classroom will be a safe place where there is collaboration, mutual respect, and creativity each day.





## NEW COURSE OFFERED

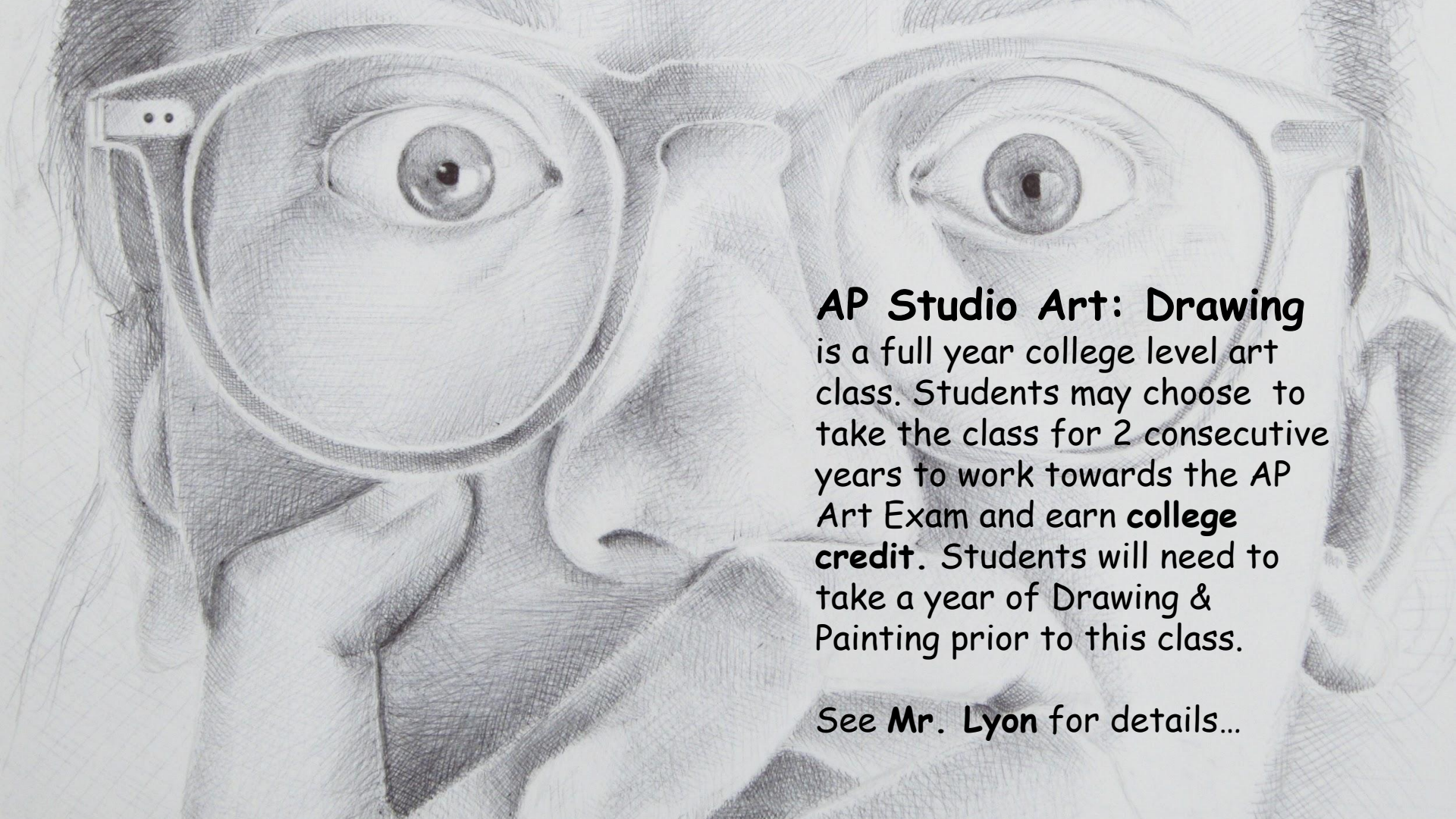
# Ceramics III



Ceramics III is will focus on the potter's wheel. In addition to the potter's wheel we will strengthen our skills in hand building as well as concept design to create a cohesive body of artwork.







**AP Studio Art: Drawing**  
is a full year college level art  
class. Students may choose to  
take the class for 2 consecutive  
years to work towards the AP  
Art Exam and earn **college  
credit**. Students will need to  
take a year of Drawing &  
Painting prior to this class.

See **Mr. Lyon** for details...



## Textiles/ Fashion I & II Class

*In this class we will explore the fashion world. Learning how to draw and create fashion. We will also learn how to use the sewing machine.*





# Why Study the History of Art?

**Art both reflects and helps to create a culture's vision of itself. Studying the art of the past teaches us how people have seen themselves and their world, and how they want to show this to others...**

**AP Art History @ BHS**



# AP Art History @ BHS

**Art history provides a means by which we can understand our human past and its relationship to our present, because the act of making art is one of humanity's most ubiquitous activities.**

**As an art historian you will learn about this rich and fundamental strand of human culture. You will learn to talk and write about works of art from different periods and places, in the same way that other students learn to write about literature or history.**

**But you will also learn skills unique to art historians. You will learn to make visual arguments and, above all, you will train your eyes and brain in the skills of critical looking.**



# Dia I & II

## Contemporary art class

This is a fun class that explores the ideas of contemporary art. We go on several field trips. Both to the Dia museum and to the city. The artwork created is mostly 3-D work that is mostly a collaborative pieces of artwork.





**YOUTUBE.COM/@JCORBETT**

**▶ SUBSCRIBE**

**TV Prod I & 2/Videogame Design/New Media**



# English Dept.

---

- Film as Literature
- Lights, Camera, Literature: The Art of Film
- Creative Writing
- Dialogue & Drama: Writing Scripts & Narratives
- Drama
- Theatre Production

- Horror in Film & Fiction
- Journalism
- Magical Realism
- Sports Literature
  
- AP Language & Composition
- AP English Literature
- DCC English 101 & 102

# Film As Lit



- ❖ Are you a film buff?
- ❖ Do you enjoy picking apart movies with your friends or family?
- ❖ In this course, we will engage with hit films (from the 1930s – 2000) that have become classics in order to analyze what cinema can tell us about cultural and social values at those moments in time.
- ❖ Students will be required to be active participants in film viewings and discussion.
- ❖ Film selections vary but include *The Wizard of Oz*, *Grease*, *Back To The Future*, *10 Things I Hate About You* and more!

# Lights, Camera, Literature: The Art of Film

- This course, like Film as Literature, is for students who enjoy viewing films and discussing them!
- Today, we all stream on screens in our hands and this course will explore how films are marketed to kids, teens, men and women AND how filmmakers use audio and video to manipulate an audience.
- Students will be required to be active participants in film viewings and discussion.
- Film selections include *The Princess Bride*, *Easy A*, *Pitch Perfect*, and many more!



# Creative Writing

- ❖ **Find your voice!**
- ❖ **Creative Writing will give you a chance to express yourself in a way you want to be heard!**
- ❖ **Learn how to write in a variety of genres.**
- ❖ **Explore the techniques of great authors and poets.**
- ❖ **Share your great work!**
- ❖ **Check out the originality of your peers.**
- ❖ **See your ideas come to life through your own poems and short stories.**
- ❖ **Everyone has a story to tell--don't let yours go unwritten!**

# Dialogue & Drama:

## Writing Scripts & Narratives

- This Creative Writing course will give you a chance to express yourself and to comment on your view of the world.
- From authentic experience through the filters of your imagination and the power of diction, you will hone your craft and find your unique voice as you work to produce your best and most creative verse, stories and commentary.
- Feel the poison and the beauty and the power of the pen!







# DRAMA



*Drama focuses on developing students' understanding and appreciation of theater as an art form.*

*Through units that are structured around the chronology of theater's various eras (in addition to frequent hands-on performances) students will explore all of the fundamental elements of drama, gain insight into theatrical history and styles, and engage in a wide variety of types of creative dramatic productions and analysis thereof.*



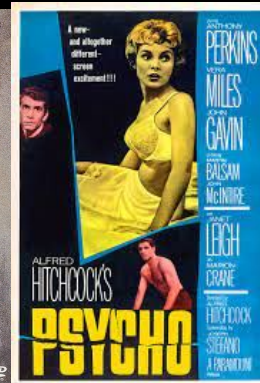
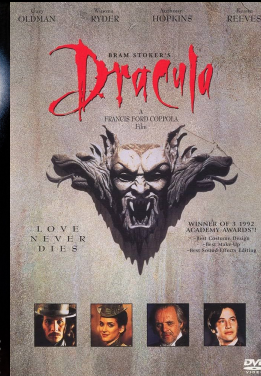
# Theatre Production

- If all the world is a stage, someone has to build the set and light it!
- This course will expose students to the multi-faceted world of theater and focus on the behind-the-scene jobs: set design, lighting design, costume design, house management, advertising, writing, directing and stage management.
- This is not a performance-based class, but you will need to engage your creativity!

# HORROR IN FILM AND FICTION



- HOW DOES FEAR WORK? WHY DO CERTAIN THINGS MAKE US AFRAID?
- LEARN HOW FEAR WORKS AND HOW THE HORROR GENRE HAS EVOLVED
- EXPLORE CLASSIC HORROR FILMS AND STORIES SUCH AS





# Journalism

Term: One semester

Credit : 0.5 credit

Prerequisite: English 9

- Journalism introduces students to the world of print, online and broadcast journalism.
- Key units of study include ethics and journalism law, effective interviewing techniques, writing across formats, podcast production, and the impact of social media on modern journalism.
- The course emphasizes developing and refining writing skills in a variety of styles and formats, including news articles, sports reporting, editorials, feature stories, and interpretive pieces.



# MAGICAL REALISM

- ★ Do you have an open mind?
- ★ Do you see the fantastical (magical) in everyday life?
- ★ Is it possible that life itself is an experience of the magical real?
- ★ Magical Realism features realistic story settings with fantastical twists.
- ★ We will explore magical realism through various texts and films, including a Native American lens.
- ★ We will pose questions about our current relationship with the natural world, as well as explore the possibilities for our future relationship with nature.
- ★ We will try to change the world!



# SPORTS LITERATURE

NO TESTS or QUIZZES!

WATCH SPORTS FILMS in LGI!  
PLAY MADDEN TOURNAMENT!

This class covers the definition, history, and issues of sports.

- Do you want to LEARN: What makes a SPORT a SPORT?
- Why do we love SPORTS?
- WHAT is the history and the FUTURE OF SPORTS?
- WHAT are the CURRENT ISSUES in SPORTS TODAY?



# AP Language & Composition (11th Grade)

In this course we will study the purpose and function (the why and the how) of rhetoric (the art of persuasion).

In other words: In this class you will learn how to ARGUE!

You will also perform in-depth analyses of all sorts of texts from fiction to nonfiction and develop a repertoire of techniques to prepare you not just for the AP exam, but for writing in college and life beyond.

This is a college level English course for those serious about becoming better writers. It will challenge and reward you!

\*See **Mr. Dickinson** in room B115 with any questions.



# AP Literature and Composition (12th Grade) w/ Mr. Arbor

AP English Literature and Composition focuses on **reading, analyzing, and writing** about imaginative literature (fiction, poetry, drama) from various time periods. Students will engage in close reading and critical analysis of literature **in order to deepen their understanding of the way writers use language to provide both meaning and pleasure.**

As they read, students in this class will consider a work's structure, style, and themes, as well as its use of figurative language, imagery, and symbolism, among many other literary and stylistic elements. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret works of literature.

**In other words: if you love to read, you should take this class!**



**In this class you can expect to:**

- Complete a summer reading assignment.
- Read lots of really cool stuff. **Lots.**
- Write frequently and in a variety of forms, ranging from timed responses to longer literary analysis “process” essays.
- Get into heated discussions about characters, themes, and authorial choices...

**This is a class that you should take if you have an interest in literature, language, and/or creative writing.** If any of that applies to you, I hope to see you in class!

*Please contact me if you have any specific questions about this class: [arbor.j@beaconk12.org](mailto:arbor.j@beaconk12.org)*



# DCC English 101 & 102 (Seniors)

**English 101** is a course designed to develop students' abilities to write narration, description, definition, compare/contrast, analysis, division and classification, process, cause and effect, argument and persuasion by using sound strategies that complement the writing process.

**English 102** is a continuation of English 101, with further study of the resources of the language through a critical analysis of literature, including fiction, poetry, and drama.

**Prerequisites:** High School GPA (freshman through junior year) of 85 or better, January or June English Regents score of 80 or better, teacher recommendation, and completion of summer reading and writing assignment by due date.

Successful completion of each course (with a C or better) earns 3 credits for a total of **6 credits in the SUNY system** after completing both classes. These credits transfer to most universities.

Find **Mr. Johnson** in B113 for more info.

# FOREIGN LANGUAGE

---

Italian Cinema

DCC Spanish

# *Italian Cinema*

- **This course explores Italian cinema from its origins to the present time, within the socioeconomic and historical context of Italian culture and society.**
- **Classes will focus on some of the major works of key directors, as well as at the most important genres of popular cinema, giving particular attention to the historical, cultural, and literary matrix of each movie.**
- **Students will be encouraged to understand the possibilities of film both as works of art and as testimonies and documents of true Italian culture and society.**





# DCC SPANISH 201/202

THIS IS AN INTERMEDIATE COLLEGE LEVEL SPANISH COURSE INTENDED FOR THE SERIOUS STUDENT WHO WISHES TO ADVANCE HIS OR HER ABILITY TO UNDERSTAND AND COMMUNICATE IN THE SPANISH LANGUAGE. THE CLASS IS TAUGHT MAINLY IN SPANISH WITH AN EMPHASIS ON INTERPERSONAL COMMUNICATION.

UPON COMPLETION OF THE 201/202 SEQUENCE, STUDENTS RECEIVE SIX DCC CREDITS WHICH FULFILL THE LANGUAGE OTHER THAN ENGLISH GENERAL EDUCATION REQUIREMENT AT EVERY SUNY SCHOOL AND MANY OTHER INSTITUTES OF HIGHER LEARNING AS WELL.

PREREQUISITES ARE SUCCESSFUL COMPLETION OF SPANISH 3 WITH AN AVERAGE OF 80 OR BETTER AND A SCORE OF 80 ON THE FINAL EXAM.

ALL WHO MEET THE CRITERIA ARE ENCOURAGED TO ENROLL.



# MATHEMATICS

---

Computer Science Essentials

AP Computer Science

Financial Math

DCC Precalculus

DCC Calculus

DCC Statistics



PLTW

CSE

Computer Science Essentials

### Program Design and Development

- Create programs using procedural, event-driven and object-oriented programming (OOP) paradigms
- Design a user interface (UI) based on human-computer interaction (HCI) principles
- Use image processing to control program flow and vehicle movement
- Debug and test code

### Interpretation of Documentation

- Create task reflection with the Interpreted Performance Guide
- Create task reflection with the Interpreted Performance Guide Response Template
- Use application programming interfaces (APIs)

### Programming Languages

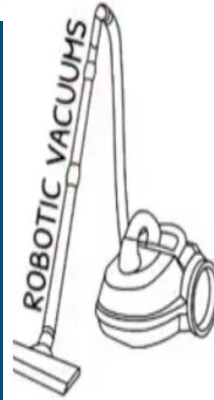
- MIT App Inventor based on Blockly
- VEX® Coding Studio based on RobotC
- Python®
- HTML/CSS

### Tools and Software

- MIT App Inventor based on Blockly
- VEX® Coding Studio based on RobotC
- Cloud9

### Professional Skills

- Pair Programming
- Agile Project Development/Scrum
- Accountability to a team
- Collaboration on design and implementation
- Presentation/Communication
- Public Speaking
- Ethics



Computer Science is  
**EVERYWHERE!**

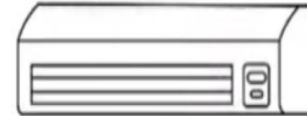
And in our every day routines!  
It's all about what the code  
results in that makes  
someone's life better!



PUSH  
START

SELF-DRIVING  
CARS

PROGRAMMING HOME ENVIRONMENT



HOSPITAL MACHINES ARE PROGRAMMED







CREATE THE FUTURE

# AP Computer Science Principles

## The Power of Computer Science

### THE INNOVATION ENGINE

From 3-D animation to medicine, fashion, engineering, visual design, finance, music production, statistical analysis, and much more, computer science powers the technology, productivity, and innovation that drives the world.

### IDEAS COME TO LIFE

AP<sup>®</sup> Computer Science Principles (AP CSP) helps you understand how computing and technology influence the world around you. In this course, you'll create digital projects, such as games and apps, to address real-world issues in the same way writers, programmers, engineers, and designers do. The only recommended prerequisite for taking the course is completion of Algebra 1.

### PROJECTS CREATED BY AP CSP STUDENTS:

- An app that helps travelers pack based on their destination's weather
- A program that identifies cybersecurity threats and indicates how to use the internet to address them
- An LED light show

## Beyond Computing

AP CSP prepares you for success not only in computer science majors and careers but also in other fields. For example, computer science skills can help you:

1. Create apps to track health data and provide real-time suggestions for ways to live healthier.
2. Program models and experiments that help answer biology, physics, and sociology questions.
3. Design and build robots for use in fields like manufacturing, surgery, research, and transportation.
4. Create a website to raise awareness for causes you care about.

## Why CSP?

Students who've taken AP CSP say that it:

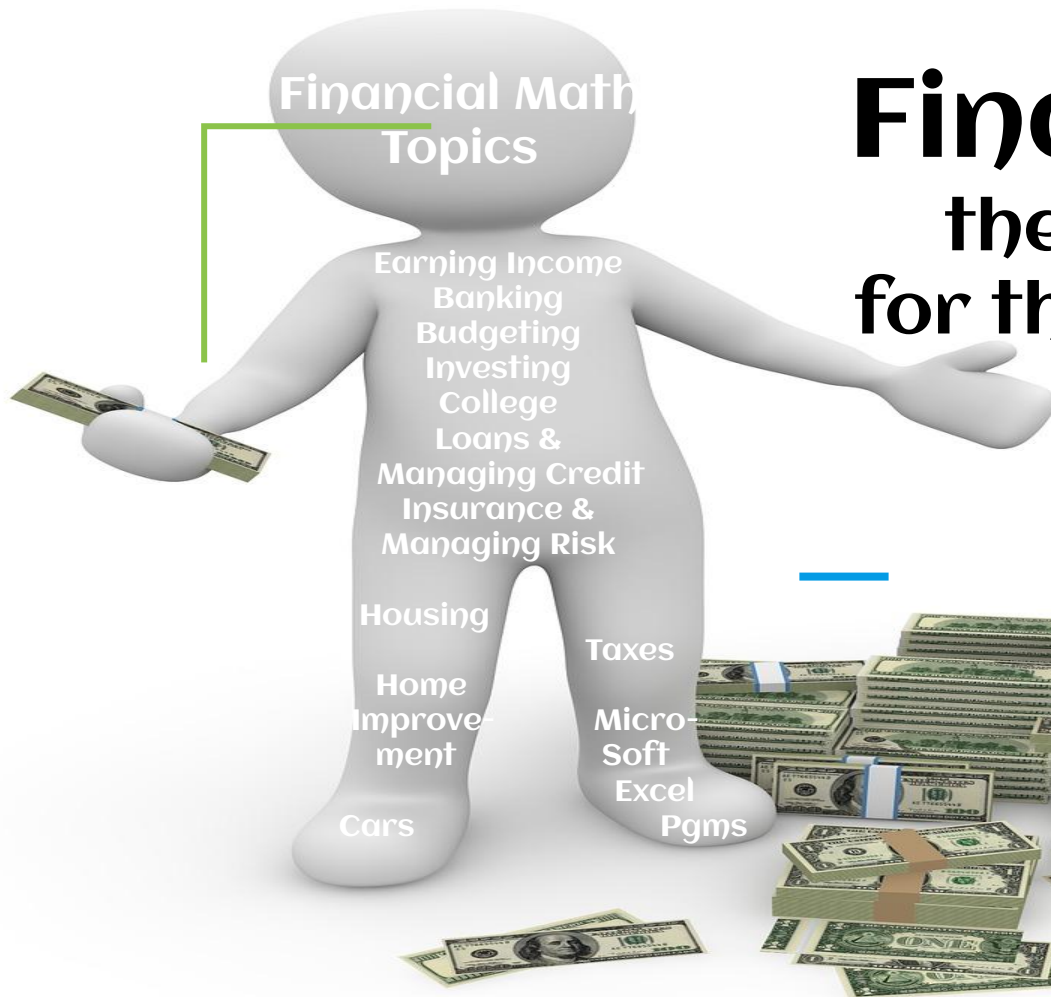
- Prepares them for many different jobs.
- Enables them to apply computer science to disciplines that interest them.
- Gives them an opportunity to work on problem solving with classmates.

**"AP Computer Science Principles opened my mind to just about everything. I learned that computer science and programming is not just for some people—it's for anybody."**

—Mikiyah Smith, *Sophomore*

AP<sup>®</sup>

CollegeBoard



## Financial Math Topics

Earning Income  
Banking  
Budgeting  
Investing  
College  
Loans &  
Managing Credit  
Insurance &  
Managing Risk

Housing

Home  
Improvement

Cars

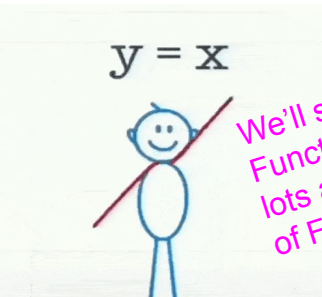
Taxes

Micro-  
Soft  
Excel  
Pgms

# Financial Math

the math you'll use  
for the rest of your life!



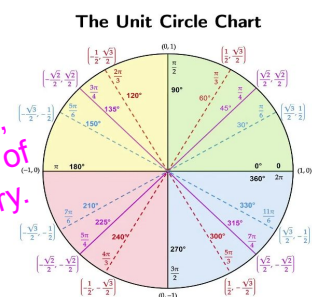


We'll study Functions, lots and lots of Functions.

# PRECALCULUS

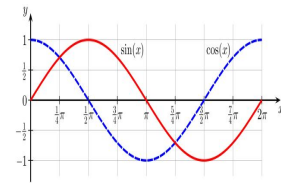
## DCC MAT 185

We'll study Trigonometry, lots and lots of Trigonometry.

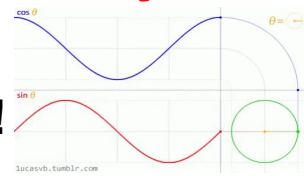


Improve your preparation for college-level academics!!!

Earn both 1 high school credit and 4 college credits concurrently!!!



These college credits will TRANSFER to ALL SUNY, most private, and even some IVY colleges!!!

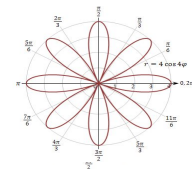


This class may meet your College Freshman-level Math Requirement!!!

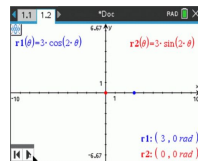
Taking college credits in high school will save you money on college tuition cost AND either allow you to graduate from college early or allow you time to double-major or study abroad!!!

### KEEP YOUR BRAIN "MATH SHARP"

Math skills, like any language skills, can deteriorate rapidly if they are not actively maintained.



We'll study Polar Graphs.



We'll study Matrices.

$$M = \begin{pmatrix} 1 & 2 & 3 \\ 6 & 7 & 8 \\ 11 & 12 & 13 \\ 16 & 17 & 18 \end{pmatrix} \xrightarrow{\text{Transpose}} M^T = \begin{pmatrix} 1 & 6 & 11 & 16 \\ 2 & 7 & 12 & 17 \\ 3 & 8 & 13 & 18 \\ 4 & 9 & 14 & 19 \end{pmatrix}$$

We'll study Conics.



$$\lim_{h \rightarrow 0} \frac{f(5+h) - f(5)}{h} = \lim_{h \rightarrow 0} \frac{f(5+h) - f(5)}{h} = f'(5)$$

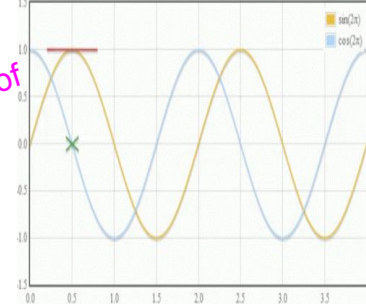
$$\lim_{h \rightarrow 0} \frac{f(x+h) - f(x)}{h} = f'(x)$$

We'll study  
Limits and  
Continuity.

# CALCULUS

## DCC MAT 221

We'll study  
Derivatives,  
lots and lots of  
Derivatives.



**Start your STEM and Calculus Sequence in High School!!!**

**Earn both 1 high school credit and 4 college credits concurrently!!!**



**These college credits will TRANSFER  
to ALL SUNY, most private, and even some IVY colleges!!!**



**This class may meet your College Sophomore-level Math Requirement!!!**

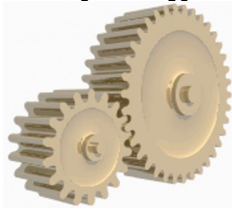
**Taking college credits in high school will save you money on college tuition cost AND either allow you to graduate from college early or allow you time to double major or study abroad!!!**

**KEEP YOUR BRAIN "MATH SHARP"**

**Math skills, like any language skills, can deteriorate rapidly if they are not actively maintained.**



We'll study  
Optimization and  
Related Rates.

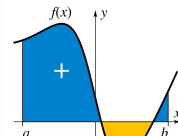
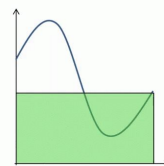


We'll study  
Antidifferentiation.

Constant Velocity

Acceleration

We'll study  
Integrals,  
lots and lots  
of Integrals.



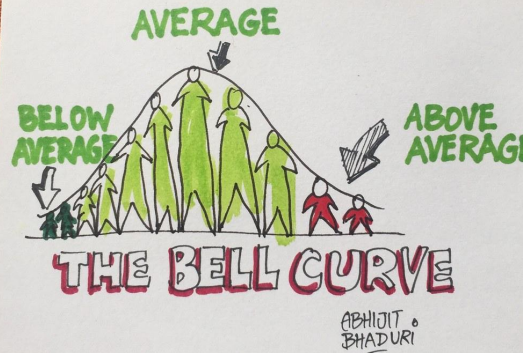
# TAKE DCC STATISTICS MAT118!

$\pi$   
 $\mu$

We use **STATISTICS** and **DATA** everyday in real life (sports, weather, stocks, politics, our economy). In class, we learn how to interpret data, use computer simulations and analyze our results to make conclusions.

Earn 3 college credits (& a high school math credit) that can be applied to DCC and transfers to most four-year colleges! You have the opportunity to experience a challenging college-level course while not missing out on any high school experiences!

**JOBS THAT USE STATISTICS:** actuary, data analyst, scientists, economists, engineers, accountants, medical researchers, financial analysts, banking





# MUSIC

---

Concert Band

Chorus

AP Music Theory

Guitar I & II

Music Production

Music Theory



# BHS CONCERT BAND

**Teacher: Mrs. Ryan-Ferry**  
**Full Year Course**

- ★ Experience rehearsing high-school level music with fellow students daily
  - ★ Perform in:
    - Three yearly concerts
    - Parades
    - Opportunities to perform with the jazz band, pit orchestra, and pep band
  - ★ Prerequisite: Two years of instrumental performance (in a school or private lesson setting)
-



**CHORUS IS FOR SINGING  
AND BEING SUPPORTIVE**





# AP MUSIC THEORY

**Teacher: Mrs. Ryan-Ferry**  
**Full Year Course**

- ★ Earn college credit
  - ★ Learn to:
    - Analyze performed and notated music
    - Sing music from notated scores
    - Notate performed music
    - Compose music in 18th Century Western style
  - ★ Prerequisite: Music Theory OR successful completion of a pretest given by instructor
-





# Want to learn how to play Guitar???

Take Guitar 1 and if you like it take Guitar 2

Beginner Class (Guitar 1)  
BHS supplies the guitar  
We play guitar every day  
No long fingernails please  
Guitar, guitar, guitar...shred!



# Music Production Class

Want to learn how to make music with a computer?

Want to learn how music is recorded in a studio?

Want to spend 1 period every day doing something creative with music?

Music production is a fun class taught in a computer lab

You will make all kinds of musical projects

We visit a real music recording studio on a field trip

Learn something about the music business, who knows where it will take you?





# Music Theory Class

Want to:

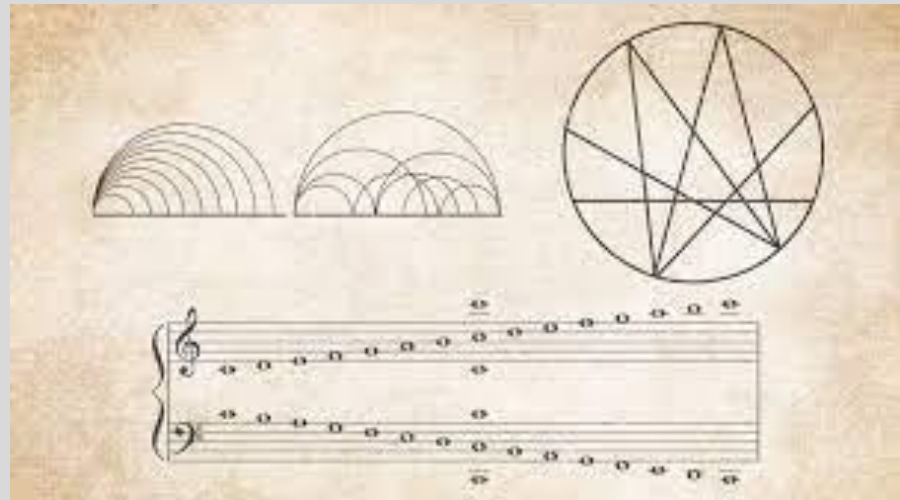
Learn how to read music?

Learn how to write music?

Be able to name and define every mysterious marking on a piece of music?

Take A.P. Music Theory someday?

*Then this is the class for you. Learn music theory in a non-scary way. Be prepared to write a lot of music notes and a lot of other things - every day.*



# PHYSICAL EDUCATION/HEALTH

---

Athletic Training

# Athletic Training

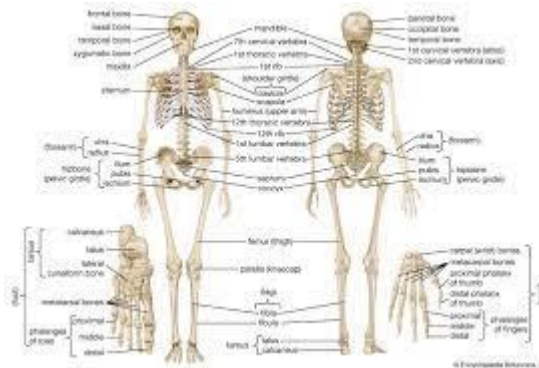
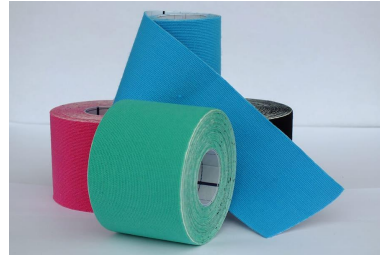
Mr. Sabatelle



-Learn to evaluate and treat common injuries



-Prepare for career in medical field



-Hands on class  
-Learn to do basic first aid

-Learn basic anatomy



# Athletic Training with Mr. Sabatalle



Prepare for a Career in  
Medical Field

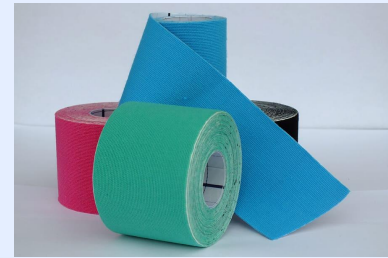
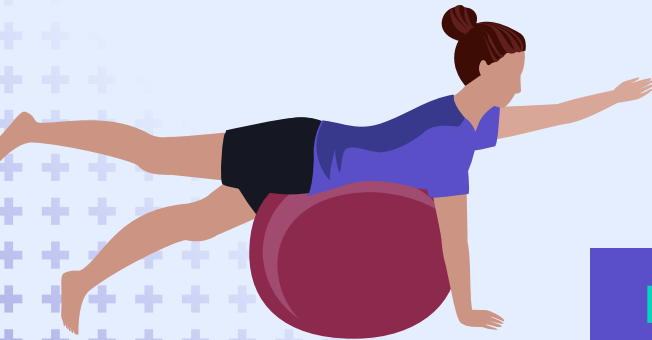
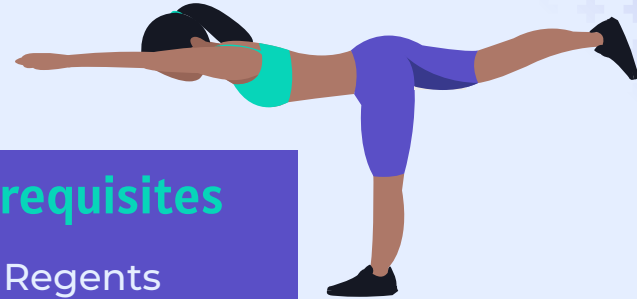
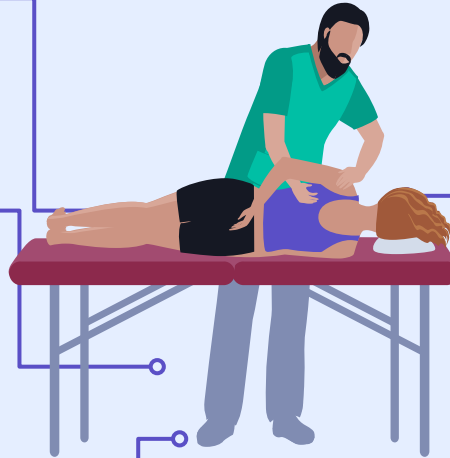
Learn to Evaluate and  
Treat Common  
Injuries

Emphasis on Joints

## Prerequisites

- 3 Regents Science Classes

Hands on Class  
Learn Basic CPR



# SCIENCE

---

Forensic Science

Human Anatomy

AP Environmental Science

Science Research

Junior Science Research

AP Biology

Field Biology

Hands on Chemistry

Laboratory Skills

Marine Biology

Astronomy

STEM

Neuroscience



# Forensic Science

Ms. Thomas



## Topics Covered

1. Observational Skills
2. Crime-Scene Investigation and Evidence Collection
3. Fingerprints
4. DNA Fingerprinting
5. Blood and Blood Spatter
6. Ballistics
7. Drug identification and Toxicology
8. Handwriting Analysis,
9. Death: Meaning, Manner, Mechanism, Cause, and Time



## Just the Facts

- Half year introductory course for all levels
- Explore how scientific principles are used in analyzing physical evidence found at crime scenes
- Be introduced to the wide array of career choices in forensics
- Analyze crime scene evidence through hands-on labs
- Bring CSI into the classroom
- BPD presentations



# Forensic Science: Fun with Physical Evidence!



Dust for fingerprints!

Come learn about CSI and practice the skills of a forensic scientist in this half year science elective!



Make and measure



Micropipette for Gel Electrophoresis!

# AP Biology

## Course Overview

- Equivalent to a two semester college introductory biology course.
- Students have the opportunity to receive 4 to 8 college credits, depending on their AP exam score and college.
- The class is conducted at the college level and students are expected to work accordingly.
- This course is very rigorous, but also very interesting and exciting.
- There is a 25% hands-on lab requirement.
- Students design their own experiments.

### Units

**Unit 1:** Chemistry of Life

**Unit 2:** Cell Structure and Function

**Unit 3:** Cellular Energetics

**Unit 4:** Cell Communication and Cell Cycle

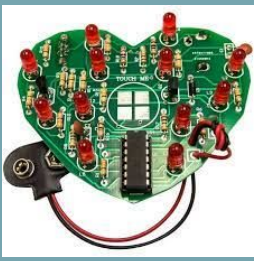
**Unit 5:** Heredity

**Unit 6:** Gene Expression and Regulation

**Unit 7:** Natural Selection

**Unit 8:** Ecology

**Ms. Thomas**



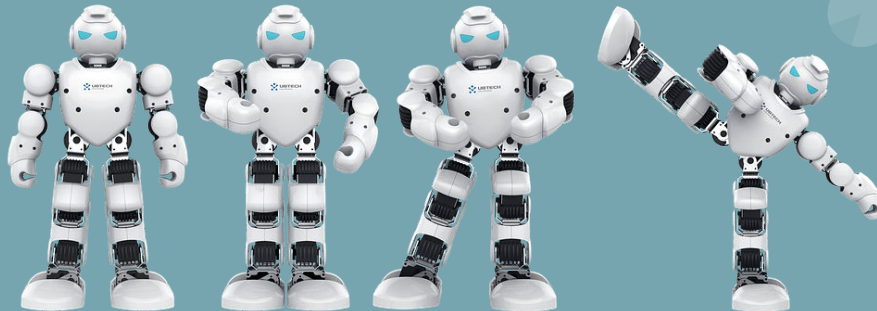
# STEM

*Science, Technology, Engineering and Math*



STEM is a full year course that will focus on science, technology, engineering and mathematics through research and laboratory study. You will also design and build objects that are required to complete a specific task. Grades are based on project success, participation and oral presentations.

Recommendations: Completion of physics and geometry. Strong science and math background. Work well in a group setting.



# Marine Biology w/Marinaccio

## What's a day in Marine Bio like?

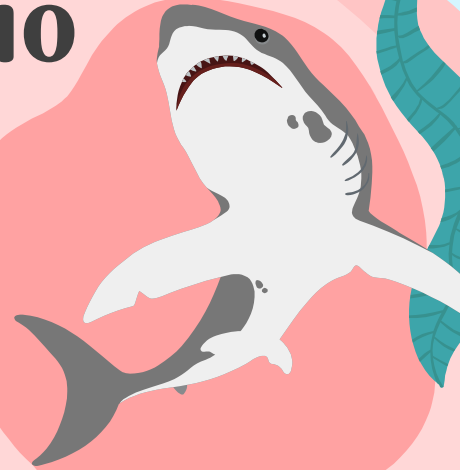
- ★ There's always a Do Now
- ★ Once a week notes, sometimes twice a week
- ★ Homework is when you don't finish work in class

## Activities:

- ★ 1-4 dissections, with the option to not dissect
  - Virtual Dissections required
- ★ Coloring. Lots of it!
- ★ Stations, posters, group work, repeat
- ★ Intense Buzzer game (as long as buzzers last).

## Student Quotes:

- ★ "Class is fun, but expect to do work" B. Anderson
- ★ "I had fun. Sad to leave." J. Thomas
- ★ "One of the best electives" Z. Kasem





# Marine Biology in Action



# Human Anatomy with Marinaccio

**Prerequisites:** Living Environment & Regents Chemistry

## Topics Covered

- ★ Directional anatomy, planes, Muscles and Cardiovascular (Arteries, Veins, and Blood Vessels)

**Who should take the course**

- ★ Wants

**What “level” is this**

- ★ Semi-advanced
- ★ Strong motivation

## Activities:

- ★ Directional anatomy
- ★ Microscopy with histology
- ★ Model labels of bones and coloring
- ★ Coloring of muscles and playdoh on skull
- ★ Stethoscopes & B.P. Cuffs with cardiovascular

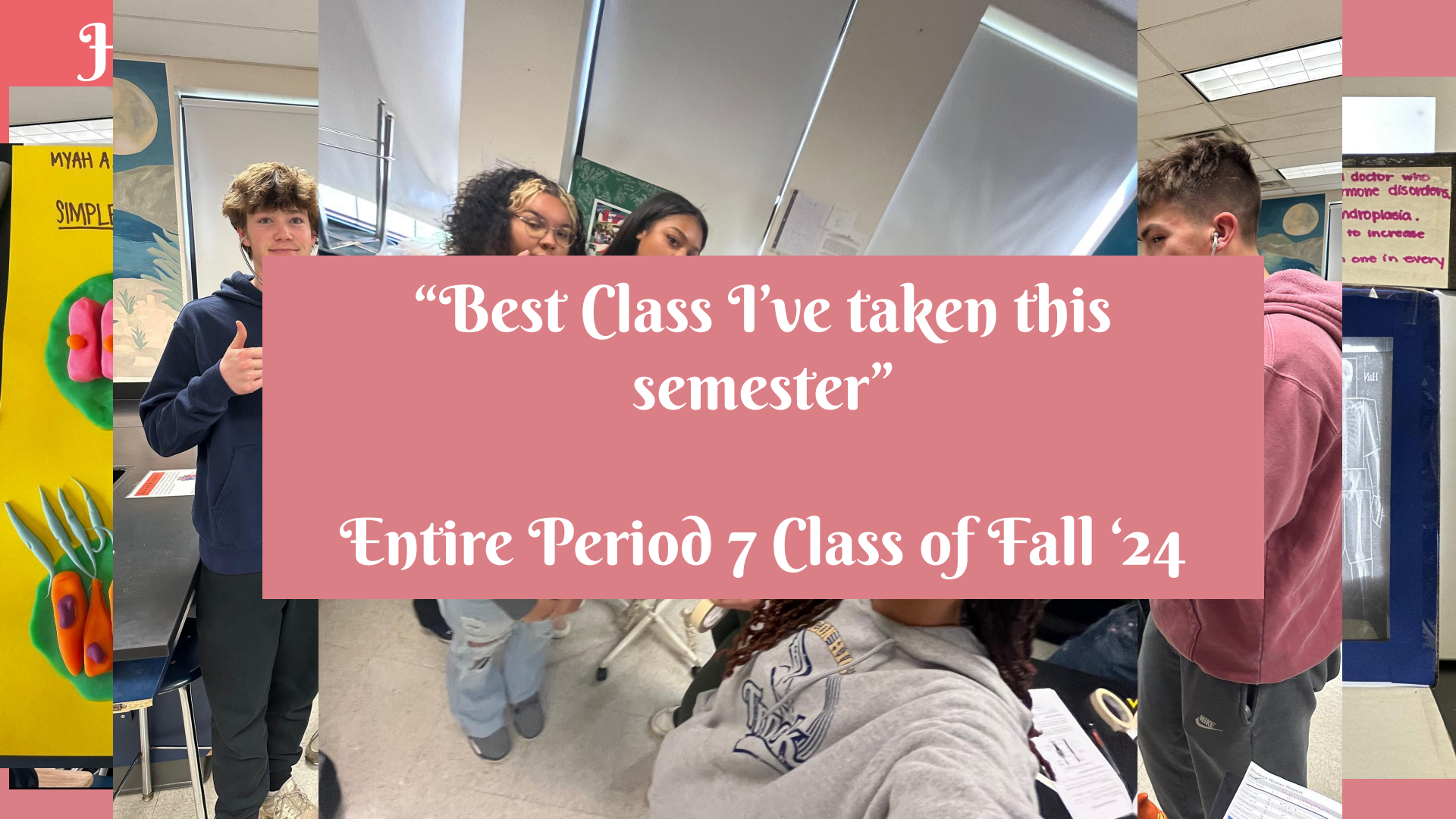
**You take a lot of notes.**

**You're welcome.**

**XO Marinaccio**







“Best Class I’ve taken this semester”

Entire Period 7 Class of Fall ‘24



Do you like to learn outside? Are you interested in nature? Do you want to go on a trip to the Hudson River and study water quality and catch fish? Do you want to learn to identify trees and birds and care for butterflies and a garden? Are you concerned about invasive and endangered species?



## Take Field Biology with Ms. Rider!

In this half year science elective you'll study the niche of the NYS plants and animals that make up our Hudson Valley ecosystem and take civic action to protect their habitats.



# Astronomy Elective

This one semester course will provide an overview of astronomy. In addition to the topics covered, students will gain an appreciation for the universe we live in.

Topics include:

- Contributions from ancient astronomers;
- Scale and make up of the solar system;
- Space exploration;
- Star formation and life cycle;
- Galaxy types and classification;
- Electromagnetic radiation;
- Tools of astronomers.

The concepts will be primarily qualitative, but there will be some algebra used to demonstrate a quantitative understanding of the physical universe.

Observations using a telescope and binoculars will be available (not required) to help students build their own connections to the universe.

# AP<sup>®</sup> Environmental Science

---

Designed to be the equivalent of a one-semester, introductory college course in environmental science.

The goal: to provide students with the scientific principles, concepts, and methodologies required to...

- Understand the interrelationships of the natural world.
- Identify and analyze environmental problems; both natural and human-made.
- Evaluate the relative risks associated with these problems.
- Examine alternative solutions for resolving and/or preventing environmental problems.

## Units

**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

For more information, visit College Board  
<http://www.collegeboard.com>.

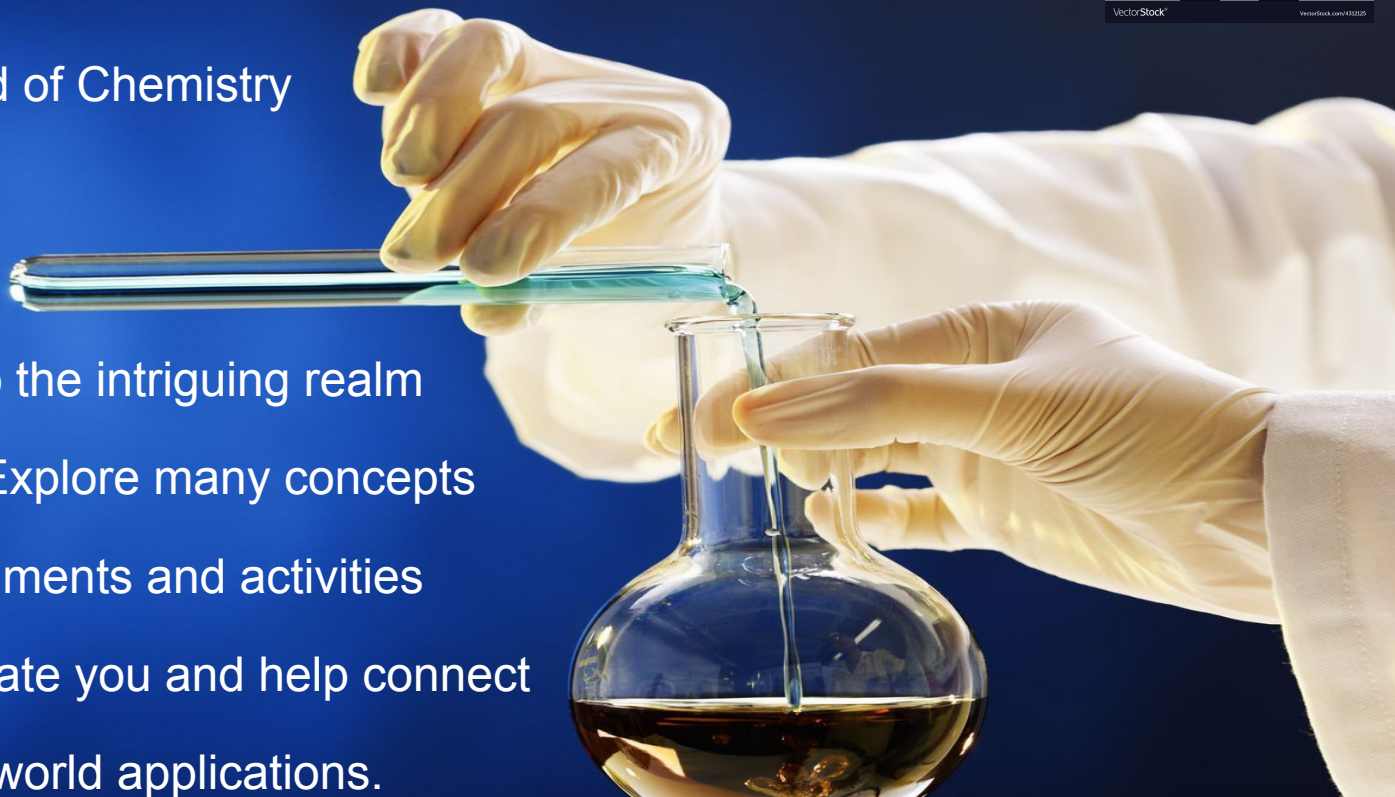


# *HANDS ON CHEMISTRY*



Explore the World of Chemistry

An introduction to the intriguing realm of chemistry. Explore many concepts through experiments and activities that will fascinate you and help connect theory to real world applications.





# Beacon Science Research

## **BENEFITS OF PARTICIPATION**

### **Graduate from college in a shorter time frame.**

- Earn college credit for approved courses while still in high school.

### **Save money.**

- A much less expensive program fee is paid, not tuition.
- A 3 credit class costs around \$1,000 at the University at Albany, which is lower than most institutions. The cost of the same course through the UHS program is \$160 (or \$80 for those who qualify for free or reduced lunch).

### **Enjoy smaller class sizes.**

### **Explore your area of academic interest before deciding to major or minor.**

### **Testing not required beyond the course requirements in order to receive credit.**

- This option may be particularly useful for students who do not do their best work on standardized tests.
- UHS courses allow more time for course study without the need to prepare or pay for additional testing.

**UHS courses transfer to colleges and universities throughout the United States and beyond.\***

## **Benefits of Personal Growth:**

- Independent study
- Goal setting
- Focus on passion for learning
- Organization
- Writing will improve
- Presentation skills
- Collaborative work
- Apply your knowledge
- Annual symposium showcases students work

# Principles of Neuroscience



How can a 3 pound lump of jelly like tissue contemplate the meaning of infinity and experience the many sensations we all experience?

Why do we dream? How can our behavior be explained by movement of molecules in our body?

That's what we do in Neuro, we explore human behavior as a function of the structural stuff that we are all made of. It's fun.

# SOCIAL STUDIES/BUSINESS

---

Psychology

Women's History

Sociology

Great Conflicts in History

Sports Marketing

Job Skills

AP Human Geography

Food and Culture

Intro to Criminal Justice

DCC Psychology

Personal Finance

Business Marketing

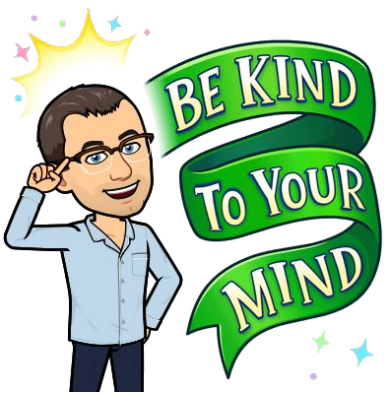
AP US History

Criminal Justice I & II

Political Science

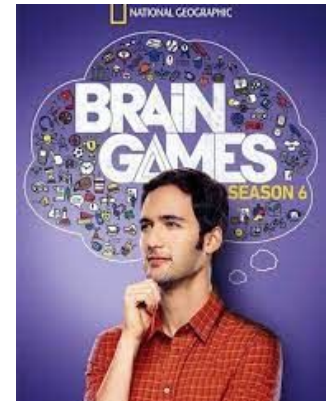
African American Studies

Intro to Occupations



# Interested in Psychology????

- Learn about how your mind works
- Talk about different disorders
- Serial killer week (personality disorders)
- Watch a few Leonardo DiCaprio movies
- Get put to sleep in class!!
- Brain Games!!
- Learn to train your brain!

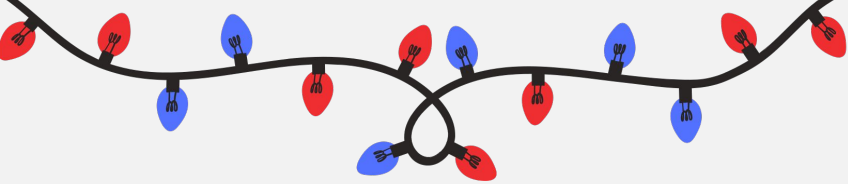




# AP Human Geography

- Potentially earn college credits
- A great introduction to Social Studies AP courses
  - Introduction to AP Standards
  - Learn skills for college
  - Apply Social Studies skills to the real world
- Study how our world shapes everything we do:
  - World Politics and Policy
  - Competition for Resources
  - Our Global Community





# AP US History

aka APUSH

## What can APUSH do for you?

- Potentially earn college credit in high school by taking an AP exam in May.
- Deepen your knowledge about US History from 1491-present.
- Learn skills and mindsets which will help you to be successful in college.
- Be better prepared for DCC Gov & Eco
- Check out MrsClemens.com (specifically the APUSH and APUSH Hall of Fame pages) to learn about the class!

## Other things to know about our class:

- We do a lot of fun activities such as "Speed Dating", "Great Depression Jenga", and a ton of games! 😊
- We've also been known to go on cool field trips!

## Electives that pair well with APUSH:

- AP African American Studies
- Women's History
- Great Conflicts





# Women's History



**NEW**

## *What will we be learning about?*

Discover how the past shapes the present in this dynamic course that explores the journey of women in our nation's history. Dive into the stories of trailblazing leaders who fought for equality, uncover the challenges still faced today, and connect the dots to your own world.

This isn't just a history class—it's a chance to explore the topics you care about most. Get ready for lively discussions, creative projects, and a deeper understanding of how you can make a difference in shaping the future!

## *Why take this elective?*

- **Uncover Untold Stories:** Dive into the lives of extraordinary people often overlooked in traditional history classes.
- **Hear Diverse Perspectives:** Explore the voices of women from a wide range of cultural backgrounds and their impact on history and society.
- **Boost Your Knowledge:** Sharpen your understanding for AP U.S. History or U.S. History and Government (Regents) and stand out in class discussions.
- **Civics Seal:** Work toward the prestigious Seal of Civic Readiness while learning about the change-makers who shaped our world.



# *Food and* *Culture*

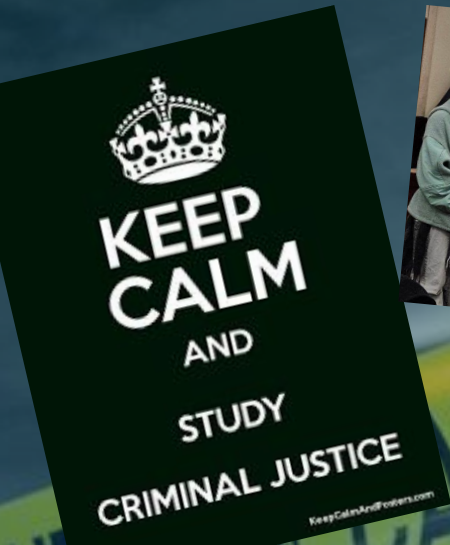
- The study of specific countries and regions discussing and viewing their culture and food choices.
- The history of food and how it has evolved over time.
- Cultural customs and dining etiquettes from around the world.
- Food Economics: The cost of eating healthy.
- The future of food. How will it change?





# Criminal Justice I & II

- 2 separate semester courses
- Ideally taken consecutively over 1 school year
- Learn about criminal law & its processes
- Field trips to Dutchess County Supreme Court AND City of Beacon Court
- Presenters from NYS Troopers, BCPD, and many more



Do you love to  
talk true  
crime?  
Unsolved  
cases?  
Criminal  
cases?  
Interrogations  
?

# TRUE CRIME

WHY WE ARE SO



Sociology: The study of people  
and social situations



IF EVERYONE DECIDES TO NOT  
CONFORM TO THE SOCIAL NORM



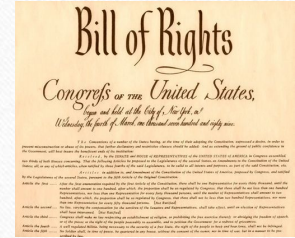
DOES THAT MEAN THAT THEY'RE  
CONFORMING TO NOT  
CONFORMING?

Are you interested in discussing:

- Why we do what we do?
- Who we are as individuals and group?
- Social interactions
- Group studies
- Human social experiments?



# POLITICAL SCIENCE



- What is the purpose of government? What types are there? Does it do good and/or evil?
- The focus will be on the US Government, with emphasis placed on the Bill of Rights and how these rights affect people's lives.
- Modern political issues will be addressed, such as (but not limited to) immigration, freedom of speech, gun rights/laws, and political parties.
- Films, discussions, and the news will be an integral part of the course, and students will be encouraged to discuss and debate various topics and issues.





# GREAT CONFLICTS IN HISTORY

---

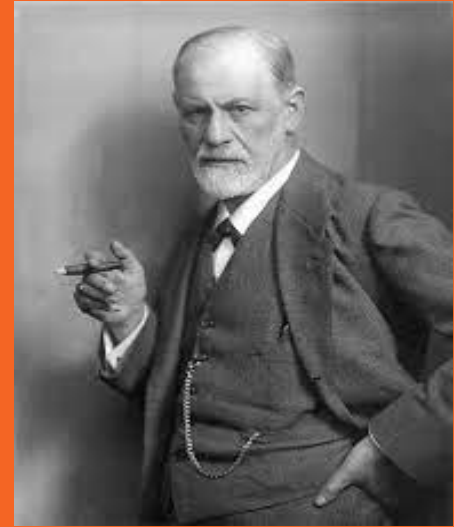
- The class will cover human conflict from prehistory to the modern era
- Causes of conflicts, the development of technologies and tactics, and lasting effects of wars will be covered.
- Films, documentaries and projects will be used in the course.
- Students could change history! Students will make decisions and actions during activities that recreate events and wars (Will you start World War I? That depends on you!)
- Subjects covered will include the extinction of Neanderthals, The Roman Empire, the Crusades, World War I, World War II, and the Vietnam War.



---

# Psychology 111

Psychology 111 is a 3 credit course from Dutchess Community College. You will study a variety of topics in what is called a survey course. Topics include: Psychological Disorders, Therapies, The Brain, Stress and Health and more. You can earn a .5 credit for BHS and 3 college credits from DCC. These credits can be applied to most colleges as an elective required for graduation.



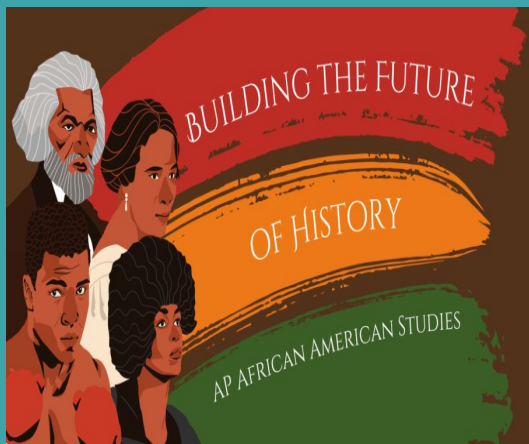
---

# PSYCHOLOGY 203



Psychology 203 is a 3 credit advanced level course from Dutchess Community College. In this course you will study the physical and psychological changes that we all experience throughout the human lifespan. Otherwise known as Human Development. You can earn .5 credits at BHS as well as 3 credits from DCC.

---



**AP African American Studies is an interdisciplinary course that examines the diversity of African American experiences through direct encounters with authentic and varied sources.**

UNIT 1	UNIT 2	UNIT 3	UNIT 4
ORIGINS OF THE AFRICAN DIASPORA	THE PRACTICE OF FREEDOM IN THE AMERICAS	FREEDOM, ENSLAVEMENT, AND RESISTANCE	MODERN MOVEMENTS AND DEBATES

# SPORTS MARKETING



High school sports marketing is a field that focuses on the marketing and management of sports teams and events, as well as the promotion of products and services through sports



Students interested in sports marketing may learn about:

- General marketing theories and knowledge
- Aspects of marketing specific to the sports and entertainment industry, such as licensing, pricing, endorsements, and sponsorship
- How to apply marketing and management skills to sports, entertainment, and other event



# Job Skills



Students will learn practical digital skills needed for the jobs of today and tomorrow.

Learn skills to help secure a job and function as part of a team in the workforce.

Explore employability characteristics that include poise, initiative, and tenacity.



# Personal Finance



STOCK MARKET GAME

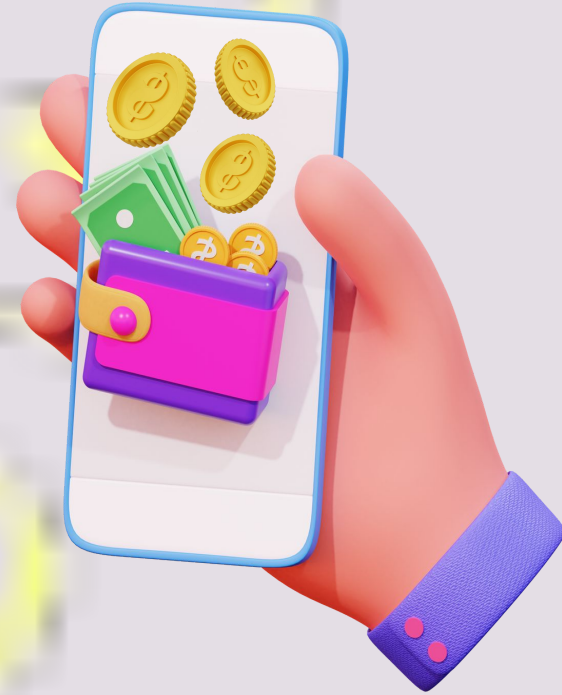
CASH PRIZE FOR WINNING  
TEAM



FINANCE TIPS AND  
TRICKS TO PREPARE  
YOU FOR LIFE AFTER  
HIGH SCHOOL



SCHOLARSHIP  
OPPORTUNITY AND  
INFORMATION

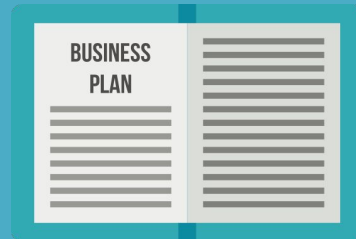


# BUSINESS MARKETING



**Welcome to the exciting world of Business and Marketing.**

**Whether you aspire to become an entrepreneur, work in a corporate setting, or simply want to better understand the business world around you, this class will equip you with valuable knowledge and skills**



# Introduction to Occupations

This course is designed to allow students to explore a variety of careers and occupations.

Students will research the requirements and skills needed for a specific field; and learn about the job application process, job interview procedures, and workplace expectations. Students will also explore the alternative to a 4-year college.





# EDUCATION

---

Introduction to Teaching

# *Introduction to Teaching*

Ever thought of teaching as  
a career??

This course might be right for you!

- ★ Learn about the profession
- ★ Discuss, read and write about:
  - Educational Philosophies
  - Best Practices
  - Issues in Education, etc.
- ★ Observe lessons (mostly videos)
- ★ Plan your own lessons
- ★ Deliver your own lessons to a class

This course is for Juniors and Seniors with 85+ average

Earn 3 college credits through MSMC

*Instructor: Ms. Nesha Prahaladsingh*