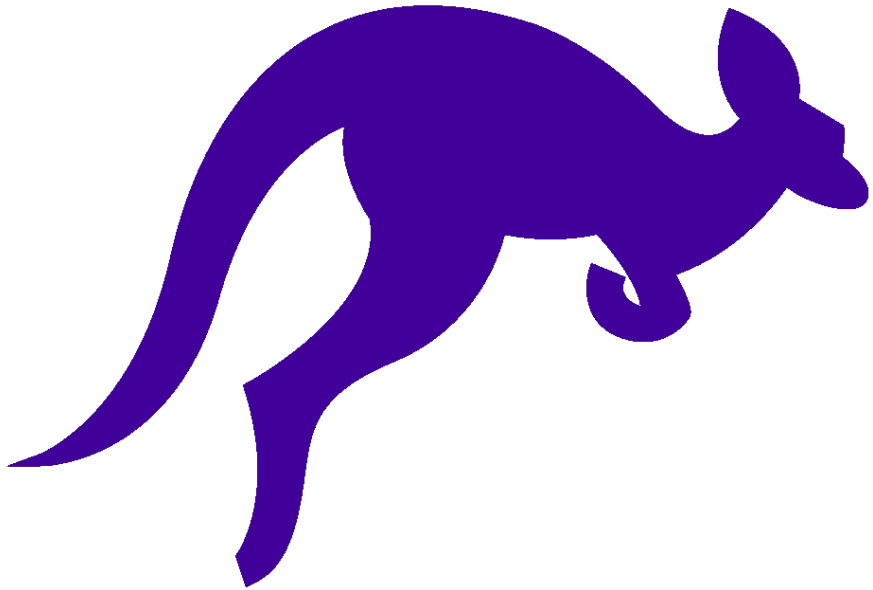




# ADVANCED PLACEMENT AT LWHS

Potential Courses Offered at LWHS  
2023/2024

# ADVANCED PLACEMENT (AP) OVERVIEW



## What is AP?

### I. College freshman level course:

- Curriculum defined by CollegeBoard
- Often a faster pace
- Quality of work expected

### II. Set national curriculum

- Not an honors course—this is college-level work
- \$99, \$145 for Research & Seminar

## What to expect?

### I. Greater workload:

- Homework | Average of one hour a night
- Higher levels of thinking; strong reading comprehension
- Mastery of material | Long term retention with little review
- Independent learning

### II. Time management challenges:

- More time out of class needed to achieve
- Maintain great attendance

# WHY TAKE AP: THE 3 C'S



## College Admissions:

- Opportunity to stand out in the college admissions process
- Opportunity to gain college-level skills
- Opportunity to gain self confidence that will better ensure college success

## College Prep For All Subjects:

- More rigorous course work | Prepared for what college will be like
- Develop the study habits, persistence, and resilience needed for tackling rigorous coursework
- Larger sense of accomplishment | Confidence comes from meeting challenges

## College Credit:

- May be possible to earn college credit (save \$\$\$) or advanced standing by scoring well on the AP Exam

# CONSIDERATIONS



Don't take AP courses simply because they look good on a transcript: Students must be committed to the depth of learning for the entire year

If students drop an AP course after the dropperiod either semester, a "W" will be placed on their high school transcript

For second semester drops, counselors are required to notify colleges (forseniors)

As in life, each student needs to seek his/her own balance

It is critical to evaluate time commitments and priorities

Some students may experience elevated stress/anxiety due to increased depth, rigor, and pace of the work

Students should be prepared for a possible grade dip



# QUESTIONS?

Students should:

- Read the course catalog
- Speak to current teachers of the AP courses they are interested in taking
- Check out AP policies on several college websites
- Evaluate outside of school commitments
- Complete the 4-year planner

Supporting last names:

A- Coe Lenore Gallucci

[lgallucci@lwsd.org](mailto:lgallucci@lwsd.org)

Cop- Faq- Phil Magnenat

[pmagnenat@lwsd.org](mailto:pmagnenat@lwsd.org)

Far-Hak Margaret Campbell

[mcampbell@lwsd.org](mailto:mcampbell@lwsd.org)

Hal-Ld – Cameron McGinnis

[cmcginnis@lwsd.org](mailto:cmcginnis@lwsd.org)

Le-Ok – Kaitlyn Bradley

[kbradley@lwsd.org](mailto:kbradley@lwsd.org)

Ol-Si - Wendi Thomas

[wthomas@lwsd.org](mailto:wthomas@lwsd.org)

Sj-Z - Perry Sampley

[psampley@lwsd.org](mailto:psampley@lwsd.org)

# POTENTIAL AP OFFERINGS AT LWHS

\*Actual offering is based on the number of registered students, availability and interest of instructor, and logistical ability to schedule the course for the upcoming year.

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# AP FINE ARTS

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# AP 3D ART + DESIGN

ART187/ART188

1 CREDIT – 1 YEAR COURSE

PRE-REQ – CERAMICS I + II

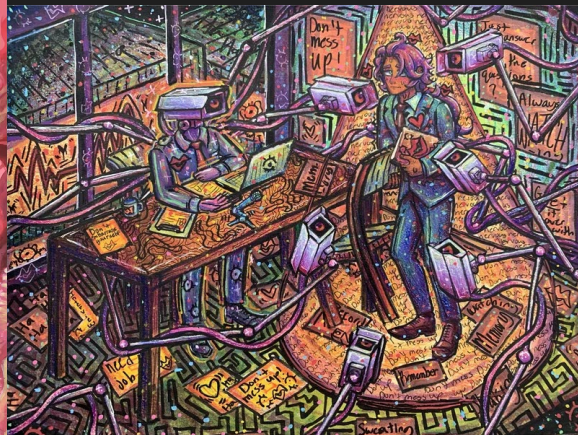
- Build a Body of Work

- Develop a Portfolio for Submission

- Intensive, Independent Studio Practice

-Hand Building and/or Wheel Throwing





# AP 2D ART + DESIGN

1 CREDIT – 1 YEAR COURSE

PRE-REQ – ART I + II

- Build a Body of Work
- Develop a Portfolio for Submission
- Intensive, Independent Studio Practice
- Any 2D Media

# AP - SOCIAL STUDIES

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# AP World History

Jill Berge ([jberge@lwsd.org](mailto:jberge@lwsd.org))

Michael Dawson ([mdawson@lwsd.org](mailto:mdawson@lwsd.org))

Maik Hollinger ([mhollinger@lwsd.org](mailto:mhollinger@lwsd.org))

Amy Sullivan ([asullivan@lwsd.org](mailto:asullivan@lwsd.org))

- Open to sophomores (10<sup>th</sup> grade)
- Will practice the AP skills necessary for future classes
  - Will write a lot of timed essays
  - Will read a lot of primary source material
- Homework (2-3 hours per week)
  - Weekly chapter reading
  - Ongoing project research
- 80% of grade based on tests/projects
- Emphasis on big-picture history
- Class incorporates use of simulations and interactive activities





# AP HUMAN GEOGRAPHY

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AP Human Geography is an introductory college-level human geography course. Students cultivate their understanding of human geography through data and geographic analyses as they explore topics like patterns and spatial organization, human impacts and interactions with their environment, and spatial processes and societal changes.

Course is designed for 9<sup>th</sup> graders as an introduction to AP Classes. This course can be taken instead of 9<sup>th</sup> grade Ancient Civilizations.

## Units

Unit 1: Thinking Geographically

Unit 2: Population and Migration Patterns and Processes

Unit 3: Cultural Patterns and Processes

Unit 4: Political Patterns and Processes

Unit 5: Agriculture and Rural Land-Use Patterns and Processes

Unit 6: Cities and Urban Land-Use Patterns and Processes

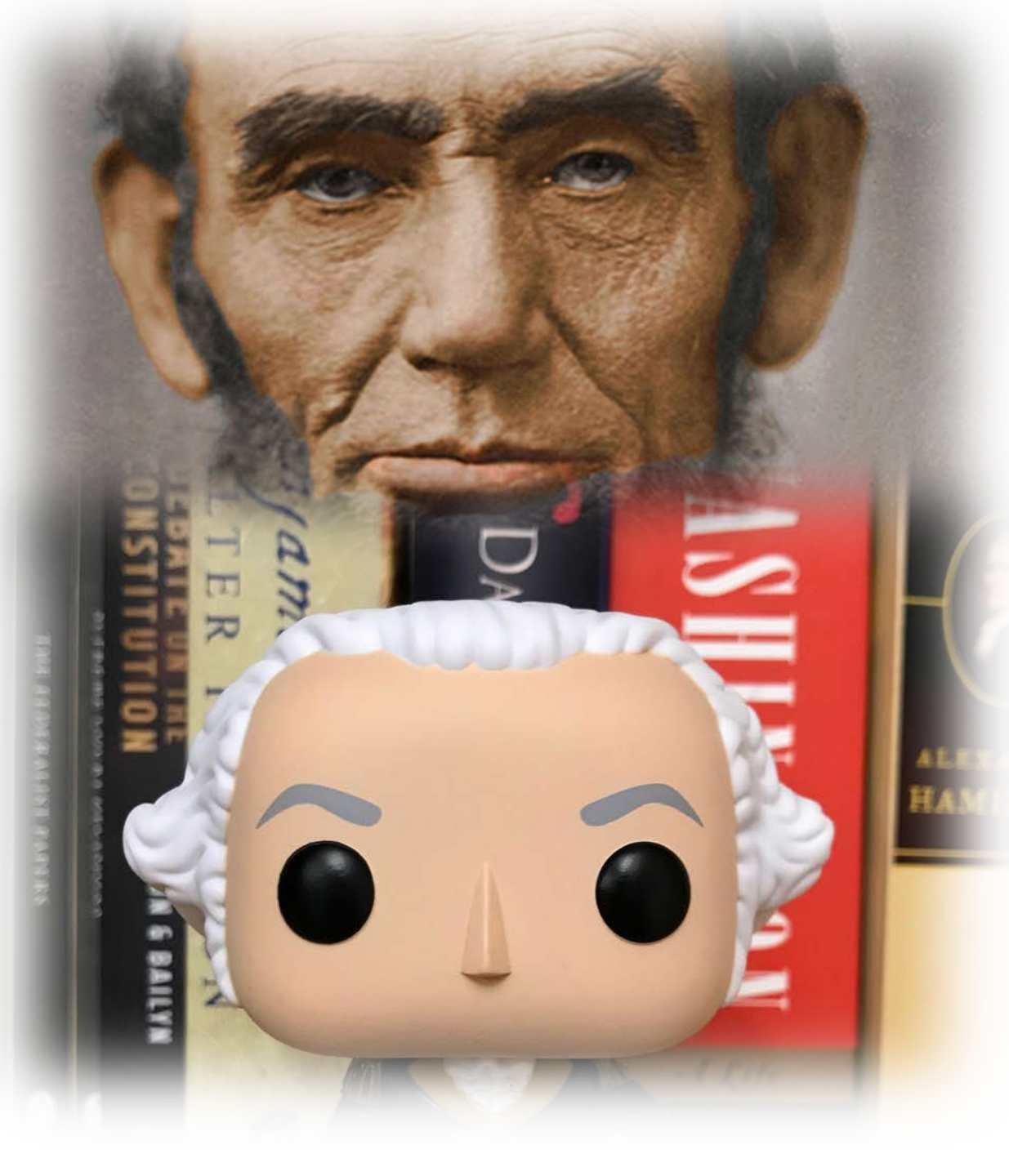
Unit 7: Industrial and Economic Development Patterns and Processes



# AP UNITED STATES HISTORY

Contact: Beau Hansen [bhansen@lwsd.org](mailto:bhansen@lwsd.org)

- Junior Year (11<sup>th</sup> grade) History Class
- Expect an average of 1 hr. of homework per night – mostly textbook reading and answering questions modeled after the types of questions for the AP Exam.
- Students will learn historical reasoning and analysis from *Making America* and other provided texts and primary sources.
- Students will have a variety of learning experiences including:
  - Lectures on pivotal topics and historical events
  - Primary Source Documents
  - Simulations, projects, mock trials, and discussions.
- Expect fun projects, immersive and engaging group work, and rigorous historical research!
- This class is about forming a narrative about United States history as opposed to memorizing dates. This class will help students make sophisticated connections across time periods and locations.



# AP UNITED STATES GOVERNMENT & POLITICS

contact: Michael Dawson ([mdawson@lwsd.org](mailto:mdawson@lwsd.org)) or Bethany Shoda ([bshoda@lwsd.org](mailto:bshoda@lwsd.org))



This course focuses on the American Political System; how it works, who is involved, and your role in it. There are 5 Units:

1. Foundations of American Democracy
2. Political Ideologies and Beliefs
3. Political Participation
4. Interactions Among the Branches of Government
5. Civil Rights/Civil Liberties

-----> 2-3 hours of homework a week

- Mostly reading the textbook and/or required texts such as The Constitution, The Declaration of Independence, a few Federalist Essays, etc.
- There are a few projects throughout the year as well that will require some work at home to be done.

**I'm Late...**



**For Econ Class!**

# ***AP Economics***

AP Microeconomics/ Macroeconomics is a yearlong introductory college-level economics course

- No prerequisites. If you've taken Economics before, join us again! If you're thinking of studying business, marketing, or finance in college, get a head start!
- This course will cover the basics of economics, including the fundamentals, how markets work, and the role of government in the economy through games, simulations, and projects. Let's have some fun!

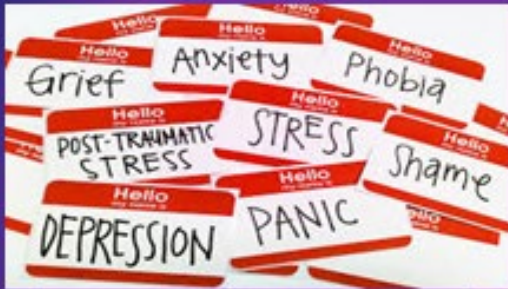
CTE and Social Studies elective credit available

Open to 10<sup>th</sup>-12<sup>th</sup> grade





# A.P. Psychology



## A.P. Psychology includes:

- History and Approaches
- Research methods
- Historical figures & experiments
- Biological causes of behavior
- Learning & Memory
- States of Consciousness
- Personality traits
- Testing & Intelligence
- Abnormal behavior and treatment
- Social & Cultural psychology

Contact: Lynne Luckey  
lluckey@lwsd.org

Equivalent to college  
Intro. to Psych./Psych. 101

- No prerequisite
- Hands-on simulations, demonstrations and experiments
- 80% of grade based on tests & occasional projects
- Self-motivated/disciplined study habits



# AP ENGLISH

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# AP LITERATURE AND COMPOSITION

Contact: Tena Lasik [tlasik@lwsd.org](mailto:tlasik@lwsd.org) or Terry Terich ([tterich@lwsd.org](mailto:tterich@lwsd.org))

30 *Seniors Only* homework/night

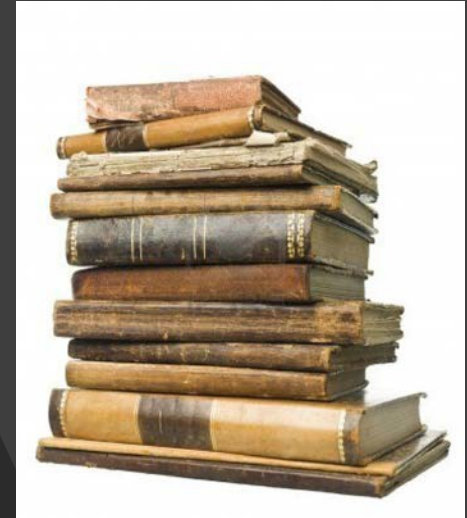
30 min – 1 hour homework/night

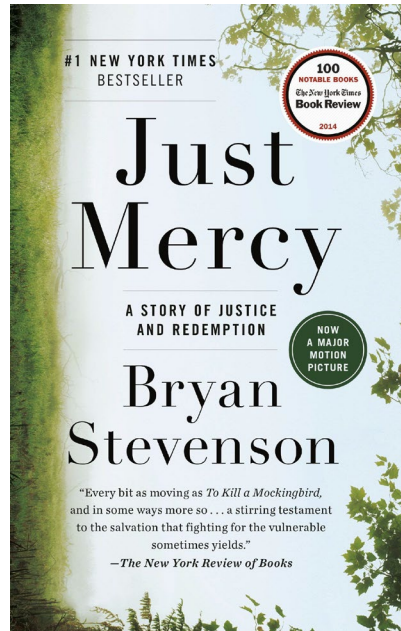
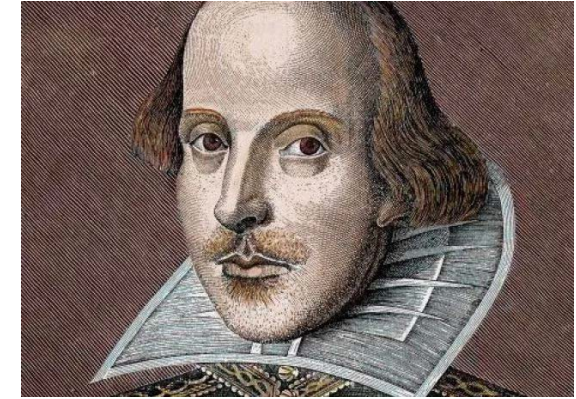
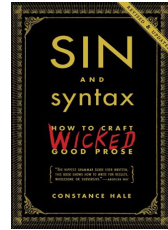
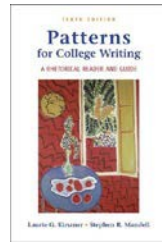
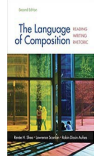
Focus for the year

- Close passage analysis strategies
- Allusions
- Literary Movements
- Critical Approaches to literature
- Essentials of poetry and fiction
- Style and Cohesion in writing
- Discussion techniques and strategies
- Presentation Skills
- AP Exam Prep

Literature for the year

- *The Book Thief* – Markus Zusak
- *Cyrano de Bergerac* – Edmond Rostand
- *The Great Gatsby* – F. Scott Fitzgerald
- *Frankenstein* – Mary Shelley
- *The Catcher in the Rye* – JD Salinger
- *Great Expectations* – Charles Dickens
- 2 Choice Novels from AP suggested list
- Various Poetry
- *5 Steps to a 5* (McGraw Hill prep workbook)





## AP English Language & Composition

contact: Sarah Fradkin ([sfradkin@lwsd.org](mailto:sfradkin@lwsd.org))  
Amy Sullivan ([asullivan@lwsd.org](mailto:asullivan@lwsd.org))

- Junior Year (11<sup>th</sup> grade) English Class
- Expect an average of 1 hr. of homework per night – mostly reading, writing, and annotating.
- Students will learn rhetorical strategies from *Patterns for College Writing* as well as *The Language of Composition*.
- Separate book studies will be done quarterly on:
  - Tim O'Brien's *The Things They Carried*
  - Bryan Stevenson's *Just Mercy*
  - William Shakespeare's *Hamlet*
- Expect fun projects, immersive and engaging group work, and rigorous analysis!

# AP WORLD LANGUAGES

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## *AP Spanish Language and Composition*

Contact Kristen Tylee, [ktylee@lwsd.org](mailto:ktylee@lwsd.org)

- **How much homework is there?** Roughly 2 hours per week
- **What do we do in the class?** Read, write, speak, and listen about topics ranging from Bolivian beauty pageants to Guatemalan education to Latin dance!
- **What textbook do we use?** *Temas* (no class fee)



# AP French Language and Culture

Contact: Emily Wilcox, ewilcox@lwsd.org

## How much homework is there?

Roughly 2 hours per week

## What do we do in the class?

We have candid conversations in French about what is in the headlines.

We read and hear stories related to current and historical events in the Francophone world.

We dive into the arts and look at its lasting impact on society.

## What textbook do we use?

APprenons and Allons au de-là

## Are there class fees?

Just the AP Test itself



Une sculpture québécoise



Une sculpture sénégalaise

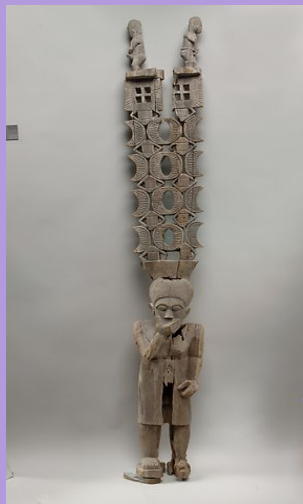


Une sculpture française

Deux sculptures haïtiennes



Une sculpture malgache



# AP SCIENCE

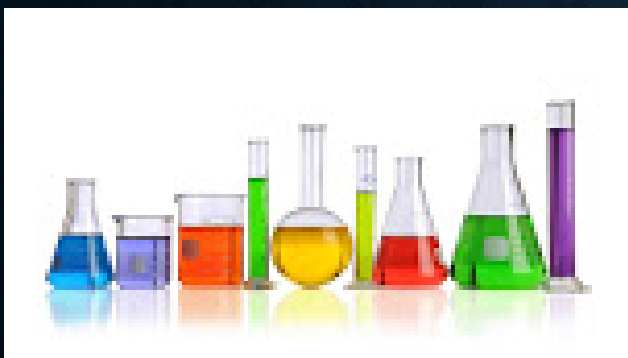
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# AP CHEMISTRY

- Topics include: bonding, kinetics, equilibrium, redox, acid/base and thermochemistry
- This is a lab-based science with potential to earn college credit
- The AP Exam is the primary focus of the course
- Challenging course
- Weekly homework (2-3 hours)



# AP Environmental Science (APES)

Learn about...

- Population growth
- Feeding the world
- Climate change's impact on the globe
- Taking care of animals
- Growing plants



Take part in a hands-on class and learn about relevant issues in our world.



Apply everything you've learned in your high school career!

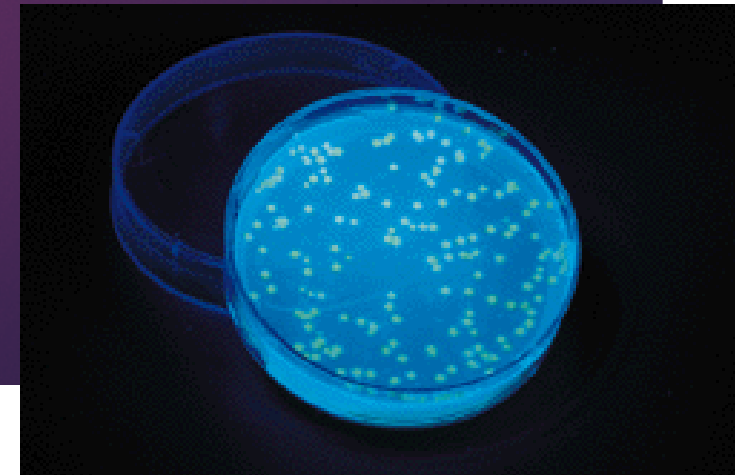


Biology Required, Chemistry taken concurrently or prior. Counts toward Science OR CTE!!



# AP BIOLOGY

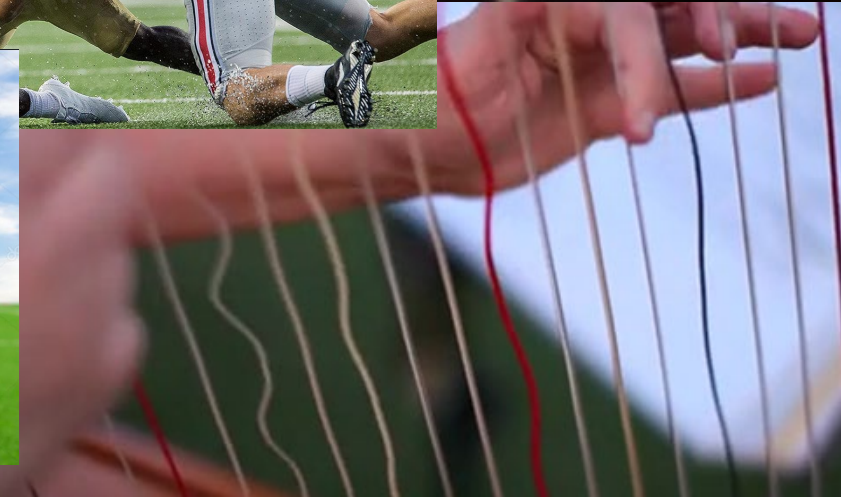
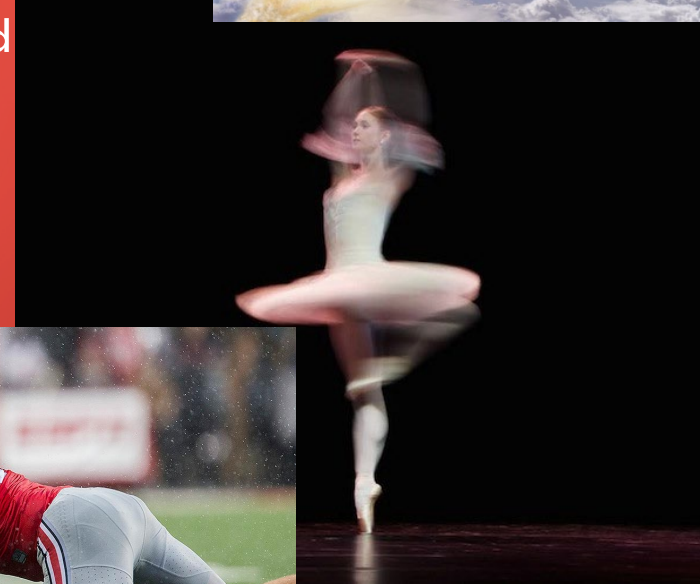
- **IN-DEPTH LEARNING OF HOW LIVING THINGS WORK**
  - All the intricacies of what makes us tick!
- **MANY DIFFERENT KINDS OF LAB EXPERIENCES**
  - Biotechnology, experimental design, data analysis
- **POTENTIAL TO EARN COLLEGE CREDIT**
  - AP Exam
- **OPPORTUNITIES TO WORK THROUGH MATERIAL WITH PEERS**
- **DEBATE BIOLOGICAL ETHICS**
- **CHALLENGING AND REWARDING!**
  - Students leave feeling **ACCOMPLISHED**
  - Helps prepare students for college science courses



# AP PHYSICS 1

No prior physics required!

- **Topics** include kinematics, forces, uniform circular motion, work, energy and power, impulse and momentum, rotational kinematics and dynamics, simple harmonic motion.
- **Class work** emphasizes *deep understanding of concepts through conversations and demonstrations relating mathematical equations to the ideas of real-life experiences.*
- **Math** is the language of physics. Successful completion of **Algebra 2 is strongly recommended.**
- **Homework** is critical to success and averages 45 minutes after every day of class.
- **Lab work** is emphasized for *hands-on understanding of concepts.* At least 25% of class time is inquiry-based laboratory experiences.
- **Astronomy 2** concurrent enrollment is expected to meet new state standards.





# AP PHYSICS 2

After PITU OR AP Physics 1

- **Topics** include fluid mechanics, thermodynamics, electricity and magnetism, light waves and optics, atomic and nuclear physics
- **Class work** emphasizes *deep understanding of concepts through conversations and demonstrations relating mathematical equations to the ideas of real-life experiences.*
- **Math** is the language of physics. Successful completion of Algebra 2 is strongly recommended.
- **Homework** is critical to success and averages 2 hours a week
- **Lab work** is emphasized for *hands-on understanding of concepts.* This includes simulations and hands-on labs.

AP Physics 1 recommended, but not required

(see Ms Petersen for more info)





# *AP Computer Science A (The Programming AP Class)*

## Credits:

- Occupational Ed OR Science

## Overview

- Prerequisites: Algebra 2, 10th Grade
- Language: Java (Beginning - Intermediate Level)
- Homework: 30-45 minutes/night

## Curriculum:

- Curriculum: University of Washington/ Microsoft Teals
- UW similar classes: CSE 142 -Computer Programming I

- Outcomes:

- 97% of LW students pass AP the test (4.5 average score)
- You will know how to program in Java at a college level.

- Bottom Line:

- No prior programming experience needed! (But it is helpful)
- Lab based course.
- If you can only take one-year computer science class at LW, you are a strong student, and you are interested in STEM fields, then this is the course for you.

# *AP Computer Science Principles (The Computer Concepts AP Class)*

## Credits:

- Occupational Ed OR Science

## Overview

- Prerequisites: Geometry, 9th Grade
- Language: Javascript (Beginning Level)
- Homework: 15-20 minutes/night

## Curriculum:

- Code.org / Microsoft Teals
  - UW similar classes: CSE 120 - Computer Science Principles
- 

- Outcomes:

- You will be able to think critically about a variety of topics in computer science like the internet, big data, encryption, hacking and innovations.
- You will be able to program in Javascript at a starting level and submit an App using Applabas as a final project

- Bottom Line:

- No prior programming experience needed.
- This AP class was designed to be equivalent to computer science for non-majors at the university level. It is engaging for students of all levels / backgrounds.
- Less homework than a typical AP class because it is lab and portfolio based.

# AP MATH

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[illegible]

A unit circle diagram with the x and y axes. The circle has a radius of 1. The x-axis is labeled 'x' and the y-axis is labeled 'y'. The circle is divided into 12 equal sectors by lines from the center to the circumference. The angles are labeled in degrees around the circle: 0°, 30°, 45°, 60°, 90°, 120°, 135°, 150°, 180°, 210°, 225°, 240°, 270°, 300°, 315°, and 330°. The coordinates for each angle are written in purple next to the corresponding point on the circle. The coordinates are: (1, 0) at 0°, ( $\frac{\sqrt{3}}{2}$ ,  $\frac{1}{2}$ ) at 30°, ( $\frac{\sqrt{2}}{2}$ ,  $\frac{\sqrt{2}}{2}$ ) at 45°, ( $\frac{1}{2}$ ,  $\frac{\sqrt{3}}{2}$ ) at 60°, (0, 1) at 90°, ( $-\frac{1}{2}$ ,  $\frac{\sqrt{3}}{2}$ ) at 120°, ( $-\frac{\sqrt{2}}{2}$ ,  $\frac{\sqrt{2}}{2}$ ) at 135°, ( $-\frac{\sqrt{3}}{2}$ ,  $\frac{1}{2}$ ) at 150°, (-1, 0) at 180°, ( $-\frac{\sqrt{3}}{2}$ ,  $-\frac{1}{2}$ ) at 210°, ( $-\frac{\sqrt{2}}{2}$ ,  $-\frac{\sqrt{2}}{2}$ ) at 225°, ( $-\frac{1}{2}$ ,  $-\frac{\sqrt{3}}{2}$ ) at 240°, (0, -1) at 270°, ( $\frac{1}{2}$ ,  $-\frac{\sqrt{3}}{2}$ ) at 300°, ( $\frac{\sqrt{2}}{2}$ ,  $-\frac{\sqrt{2}}{2}$ ) at 315°, and ( $\frac{\sqrt{3}}{2}$ ,  $-\frac{1}{2}$ ) at 330°. A yellow box in the top right corner contains the text "(cos, sin)".

We will be applying for Bellevue College Credit for this course, but it has not yet been confirmed

# AP Calculus AB

Contact: Fei Lu, [flu@lwsd.org](mailto:flu@lwsd.org)  
Nadia Marcus, [nmarcus@lwsd.org](mailto:nmarcus@lwsd.org)

Covers 1 semester of college level calculus  
(Calculus I)

## Resources

- AP Calculus Book
- Baron's AP Calculus Test Prep Book
- AP Central Website

## College Credit through the AP Calculus Exam:

- Earning a score of 3, 4, or 5 on the AP Calculus Exam in May
- Amount of college credit depends on their score and the university they plan to attend

## Pre-requisites

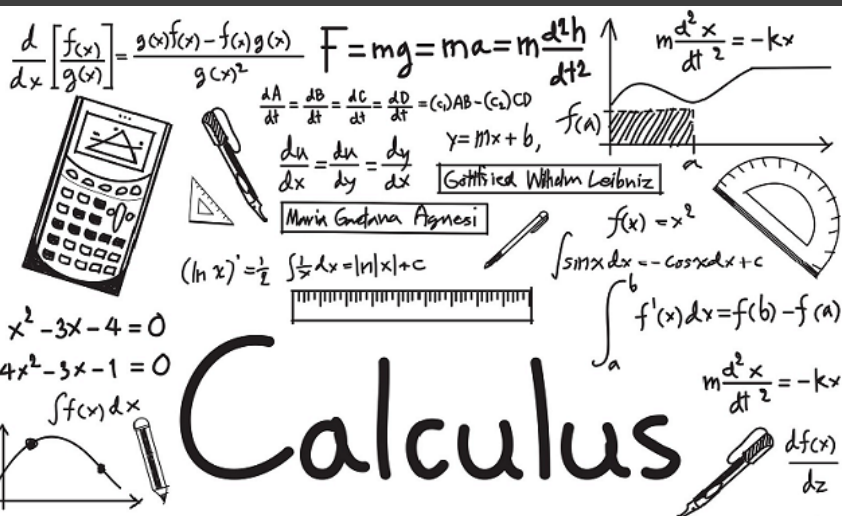
- Pre-Calculus
- Calculus Foundations
- A love/passion for math

## Homework

- Approx. 3 hours per week

## College Credit through Bellevue College :

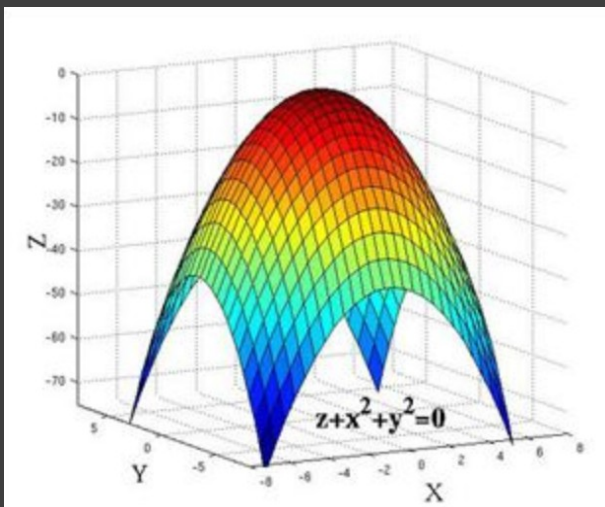
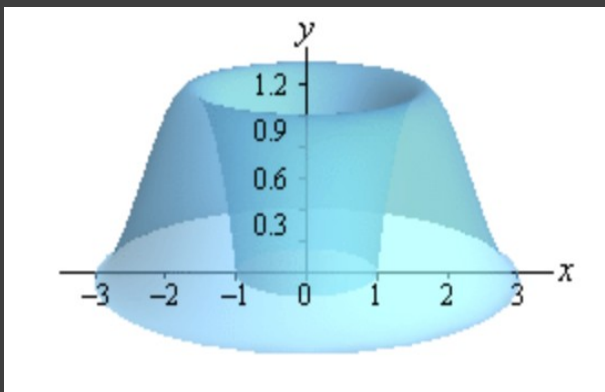
- Registering for College in the High School credit through Bellevue College
- Grade in AP Calculus AB class becomes grade for Bellevue College Math 151 class. Stays on college transcript.
- A letter is sent home in December explaining the procedure to register in January.



# AP Calculus BC

Contact: Lisa Martinez  
[lmartinez@lwsd.org](mailto:lmartinez@lwsd.org)

2<sup>nd</sup> year course for students who have  
already completed AP Calculus AB



## Math Concepts:

- Advanced Integration
- Planar Analysis in Polar, Parametric, and Vector forms
- Infinite Series Convergence
- Taylor Series approximations

## Recommendations:

- AP Calculus AB
- Ability to reason abstractly
- Strong algebraic and trigonometric skills

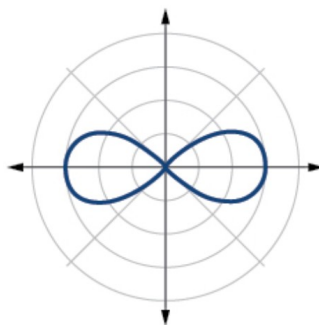
## Course Details

- Textbook – *AP Edition Calculus 11e*, R. Larson & B. Edwards
- 45-60 minutes of homework/night

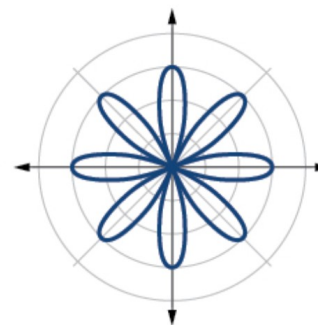
## College Credit

- **AP Calculus BC Exam** in May OR
- Two quarters of **College in the High School** credit through Bellevue College - Math 152 Calculus II & Math 153 Calculus III

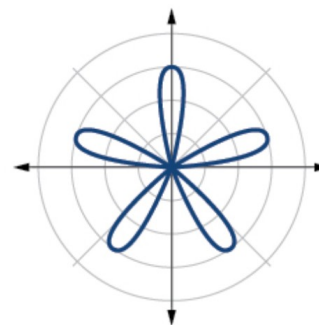
Lemniscate



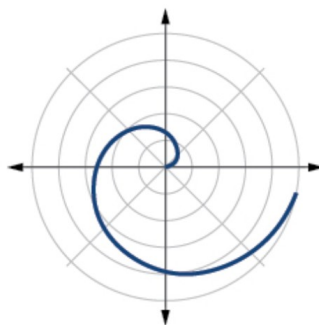
Rose Curve ( $n$  even)



Rose Curve ( $n$  odd)



Archimedes' Spiral





# AP Statistics

Contact: Morgan Douglas  
[mordouglas@lwsd.org](mailto:mordouglas@lwsd.org)



## Covers of college level Statistics- 1 Semester

1. Exploring Data
2. Sampling Data
3. Anticipating Patterns
4. Statistical Inference

## Resources

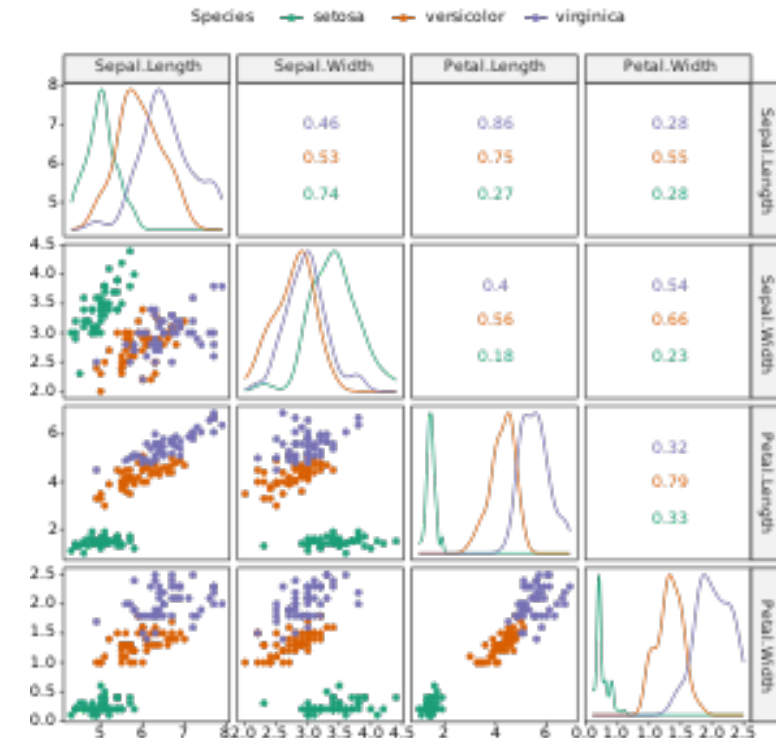
- AP Statistics Book- Practice of Statistics
- AP Central Website

## College Credit through the AP Calculus Exam:

- Earning a score of 3, 4, or 5 on the AP Calculus Exam in May
- Amount of college credit depends on their score and the university they plan to attend

## College Credit through Bellevue College :

- Registering for College in the High School credit through Bellevue College
- Grade in AP Statistics class becomes grade for Bellevue College. Stays on college transcript.



## Pre-requisites

- At least Algebra 2\*
- \* Recommend you have also taken Pre-Calculus
- Aloved/passion for math

## Homework

- Approx. 2-3 hours per week

# AP CAPSTONE

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## AP SEMINAR

Contact Jill Berge ([jberge@lwsd.org](mailto:jberge@lwsd.org)) or  
Terry Terich ([tterich@lwsd.org](mailto:tterich@lwsd.org))

Students learn how to navigate the world of scholarly research

Students learn how to “do college”

Skills-based class where students will:

- Research and analyze current issues
- Determine and assess credibility of sources
- Work individually and collaboratively to propose solutions

Homework: about 2 hours a week



# AP RESEARCH

- Students complete their own college-level research study
- Homework: about 2 hours a week
- **Students who complete Seminar and Research (+ 4 AP classes) earn the Capstone Diploma**
- Questions? Contact Jill Berge ([jberge@lwsd.org](mailto:jberge@lwsd.org)) or Matt Macomber ([mmacomber@lwsd.org](mailto:mmacomber@lwsd.org))