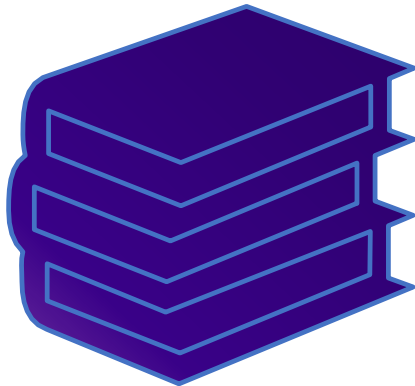




Advanced Placement at LWHS

Potential Courses Offered at LWHS
2021/2022

Advanced Placement (AP) Overview



What is AP?

I. College freshman level college course:

- Curriculum
- Pace
- Quality of work expected

II. Set national curriculum

- Not an honors course-
college level work
- \$96 per AP Exam this year

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
- Gain skills and self confidence that will better ensure college success
- Competing against students with AP courses

College Prep For All Subjects:

- More rigorous course work | Prepared for what college will be like
- Develop the study habits, persistence, and resiliency 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 drop period either semester, a "W" will be placed on their high school transcript

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

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 available online
- 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

AAA-CLA— Ms. Gallucci

lgallucci@lwsd.org

CLE-GOO— Ms. Miller

cammiller@lwsd.org

GOP-JAC— Ms. LaMance

dlamance@lwsd.org

JAD-LAD— Mr. McGinnis

cmcginnis@lwsd.org

LAE-NGO— Ms. Reuhl

treuhl@lwsd.org

NGP-SIL— Ms. Cummings

kelcummings@lwsd.org

SIM-ZZZ— Ms. Hargraves

mhargraves@lwsd.org

Potential* Advanced Placement Offerings at LWHS

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

AP – Fine Arts

AP Art

- ✓ Required prerequisites: Art 1 and Art 2
- ✓ Students must have pre-established creative and technical ability
- ✓ 5-10 hours of homework each week

Questions? Contact Dawn Wyatt, dwyatt@lwsd.org

Portfolio exams have two parts and are submitted in early May

PART 1: Sustained Investigation (SI), 60%

15 slides that demonstrates practice, experimentation and revision in response to the SI question (with written responses)

- **Practice** = sketches
- **Experimentation** = photo studies, or variations in media, format, subject
- **Revision** = we might see stages of images that result in finished works

PART 2: Selected Works, 40%

Five pieces of art with written responses describing the materials, processes, and ideas used.

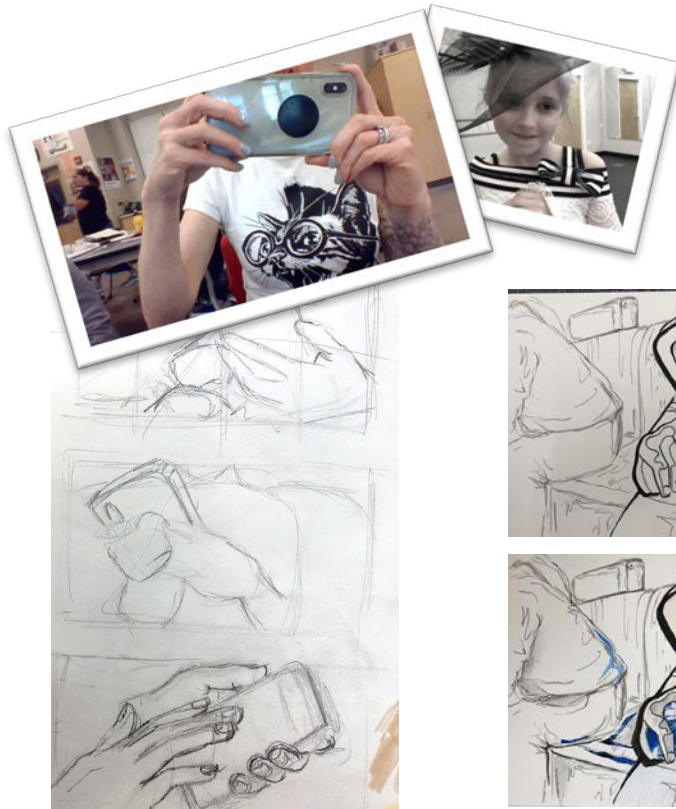
Students generate a question that guides their art production over the course of the year. The work might look like this if the sustained investigation question relates to environmental impact.



AP Art

Questions? Contact Dawn Wyatt, dwyatt@lwsd.org

Sustained investigation example: How does our addiction to media and technology affect the way we experience our surroundings?



PRACTICE



EXPERIMENTATION

document your process



REVISION

AP – Social Studies



AP World History

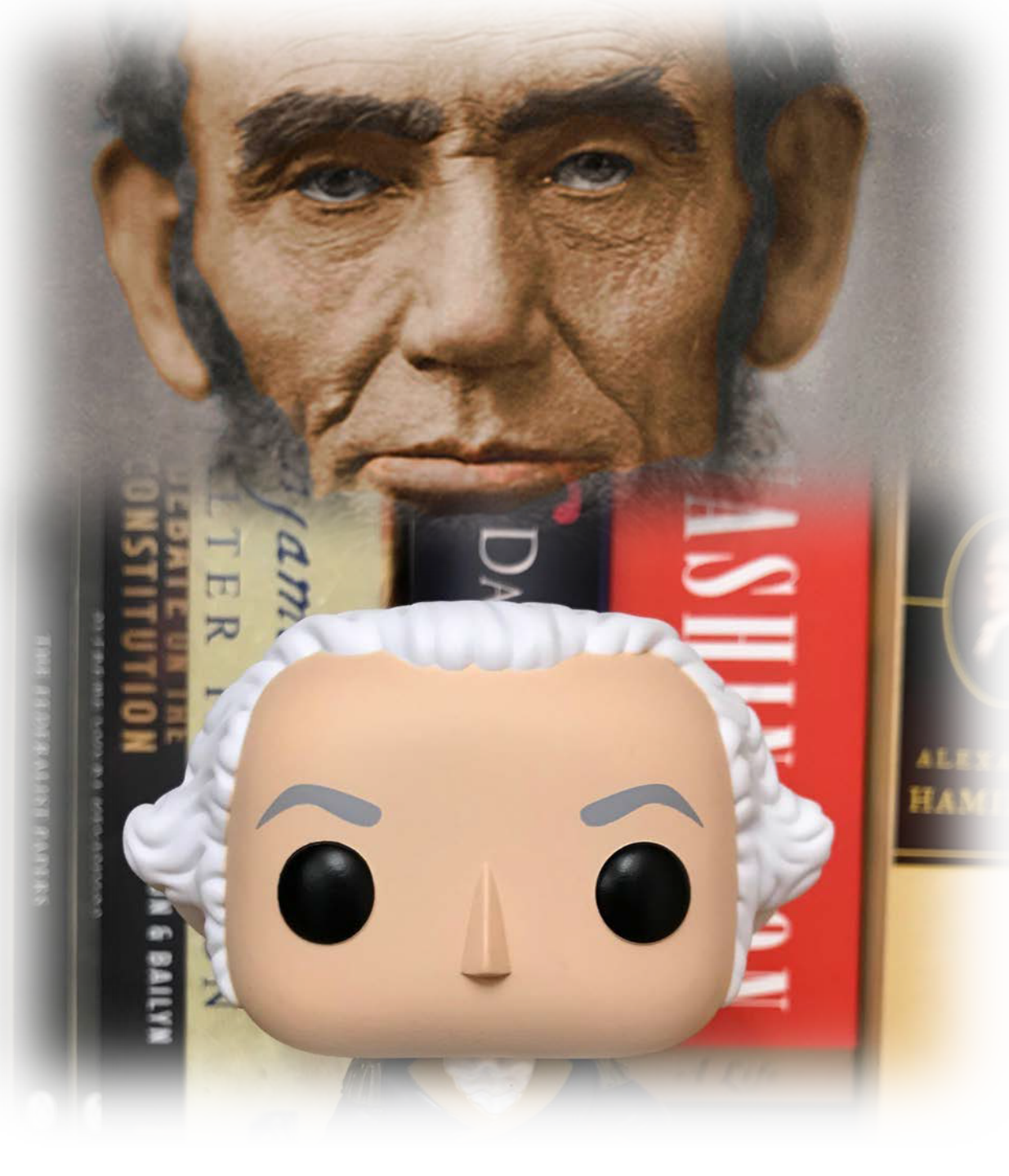
Jill Berge (jberge@lwsd.org)
Maik Hollinger (mhollinger@lwsd.org)
Michael Dawson (mdawson@lwsd.org)

- Open to sophomores (10th 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 United States History

Contact: Beau Hansen bhansen@lwsd.org

- Junior Year (11th 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) or Bethany Shoda (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

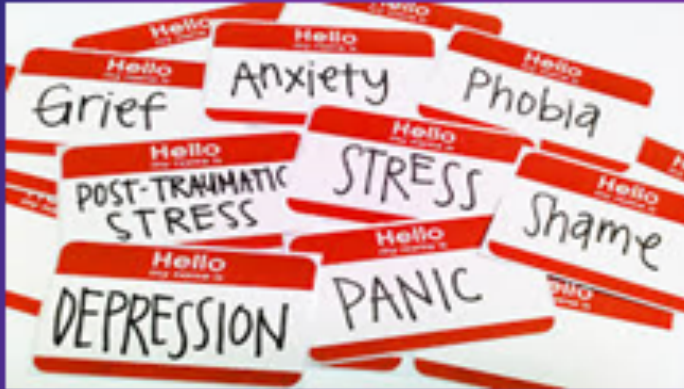
- Mostly reading the textbook and/or required texts such as The Constitution, The Declaration of Independence, a few Federalist Essays, etc.
- There are a few projects throughout the year as well that will require some work at home to be done.

AP Microeconomics



- AP Microeconomics is an introductory college-level microeconomics course. We will cover concepts like scarcity and markets; costs, benefits, and marginal analysis; production choices and behavior; and market inefficiency and public policy.
- If you are thinking of studying business, marketing or finance in college, get a head start!
- CTE and Social Studies elective credit available
- Open to 11th & 12th grade only
- Questions? Email Mrs. Shoda (bshoda@lwsd.org)

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

AP Literature and Composition

Contact: Tena Lasik tlasik@lwsd.org

30 *Seniors Only* homework/night

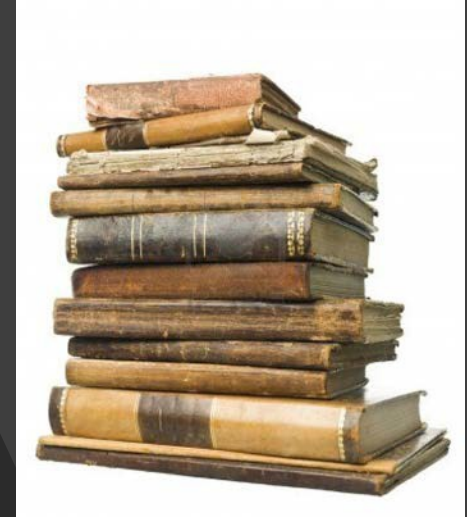
30 min – 1 hour homework/night

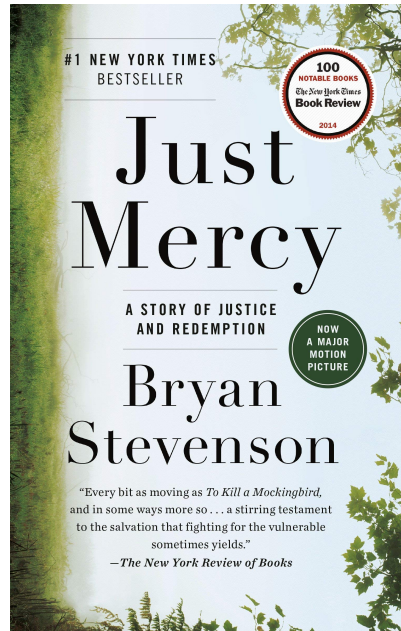
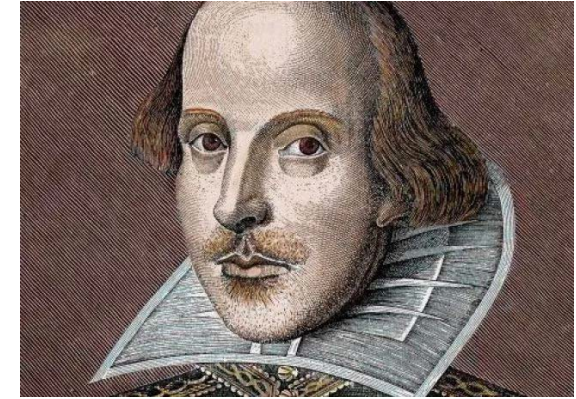
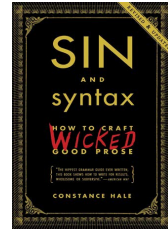
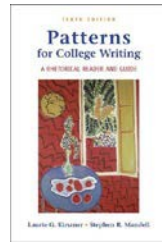
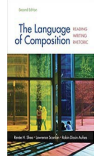
Focus for the year

- 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: Terry Terich tterich@lwsd.org or
Amy Sullivan asullivan@lwsd.org

- Junior Year (11th 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



AP Spanish Language and Composition

Jocelyn de Peyster, jdepeyster@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



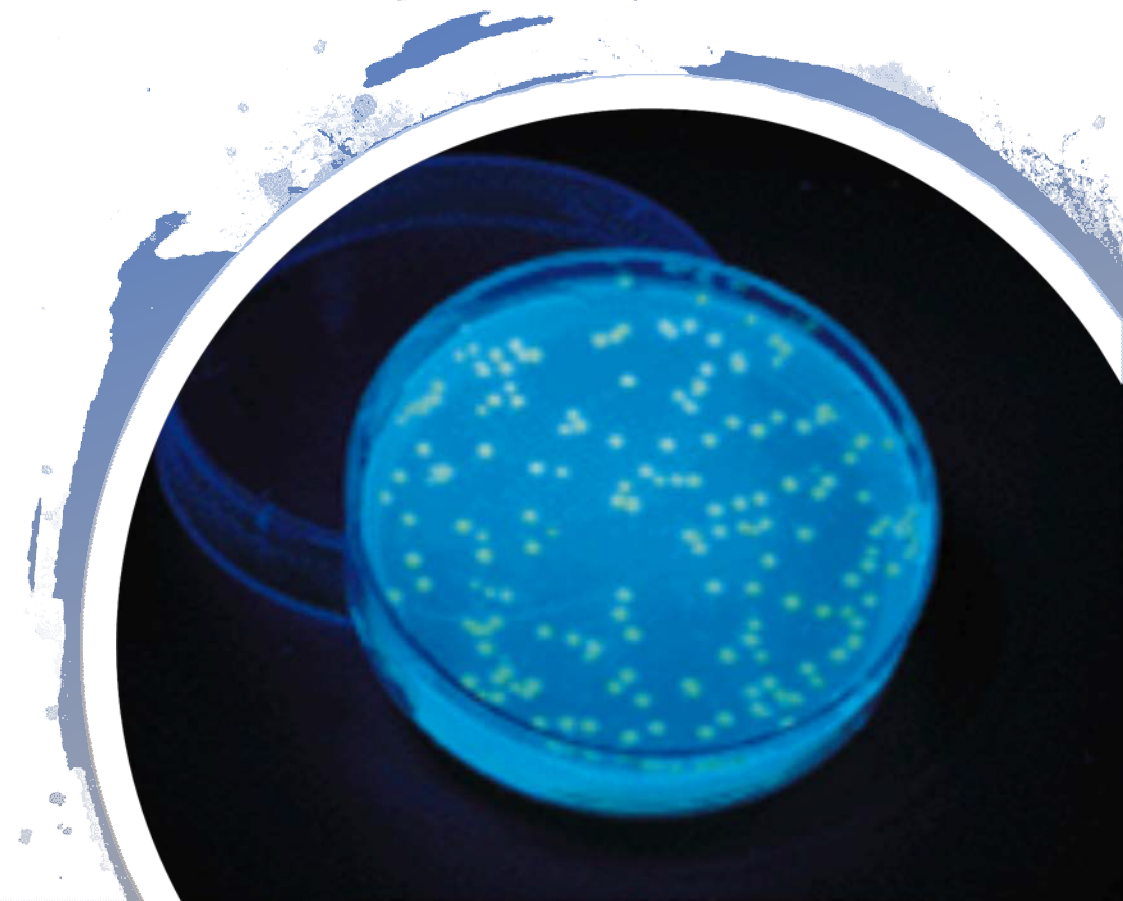
Une sculpture malgache

AP – Science

AP Biology

Contacts: azydel@lwsd.org , kmoore@lwsd.org
or kdominici@lwsd.org

- In-depth learning of how living things work
- Many different kinds of lab experiences
 - Biotechnology, experimental design, data analysis
- Potential to earn college credit
 - AP Exam
 - Use condensed version of college Biology textbook
- Many opportunities to work through material with peers
- Challenging course
 - Students leave feeling accomplished and proud of how hard they worked!
 - Nightly homework (30-60 min)
- Current/Potential Teachers:
 - Ms. Zydel – current – can answer questions!
 - Potential – Ms. Moore or Ms. Dominici
- Counts as an elective or science credit
- \$25 fee + AP test fee



AP Chemistry

Contact:

David Hale dhale@lwsd.org

Lauren Petersen lpetersen@lwsd.org



- 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
- Prerequisites (according to College Board) Students should have completed a one-year general chemistry course and algebra 2
- Challenging course
 - In some past years the AP chem class has taken a field trip in May to tour the UW chemistry department
 - Weekly homework (2-6 hours)
- AP test fee

AP Environmental Science (APES)

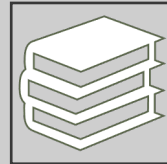
Learn about...

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

Interested? Contact Nick Verbanic (nverbanic@lwsd.org) and/or Ronica Wilson (rwilson@lwsd.org) for more information.



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!



Counts toward Science OR CTE!

No prior physics required!

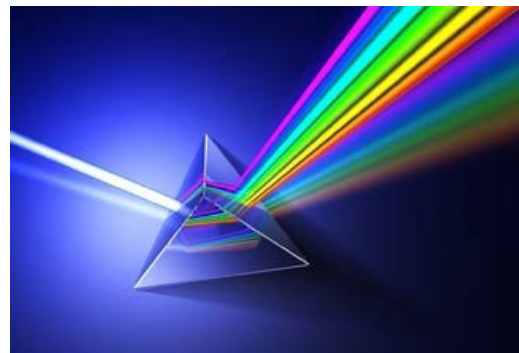
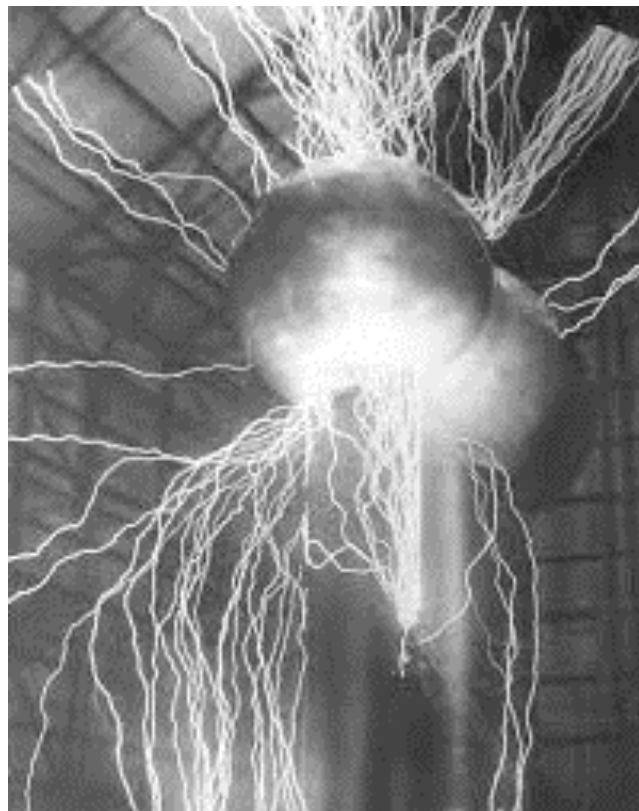
AP Physics 1

Contact: lkoetke@lwsd.org

- **Topics** include kinematics, forces, uniform circular motion, work, energy and power, impulse and momentum, rotational kinematics and dynamics, simple harmonic motion, mechanical waves and sound, and an introduction to simple circuits.
- **Class work** emphasizes *deep understanding of concepts through conversations and demonstrations relating mathematical equations to the ideas of real life experiences.*
- **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.

Math is the language of physics.
Successful completion of Algebra
2 is strongly recommended.



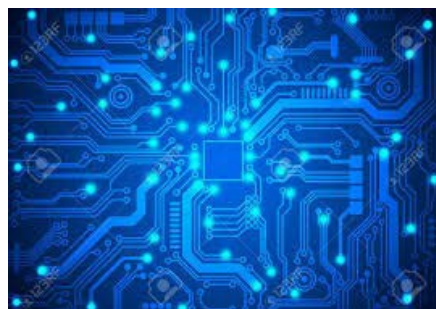


After Physics in the Universe
(aka AP Physics 1)

AP Physics 2

contact: lpetersen@lwsd.org

- **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.*
- **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 25% of class time



Math is the language of physics. Successful completion of Algebra 2 is strongly recommended.

AP – Math

AP Calculus AB

Contact: Katie Ellis, kaellis@lwsd.org
Nadia Marcus, 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

- Math Analysis
- Foundations of Calculus
- A love/passion for math

Homework

- Approx. 3 hours per week

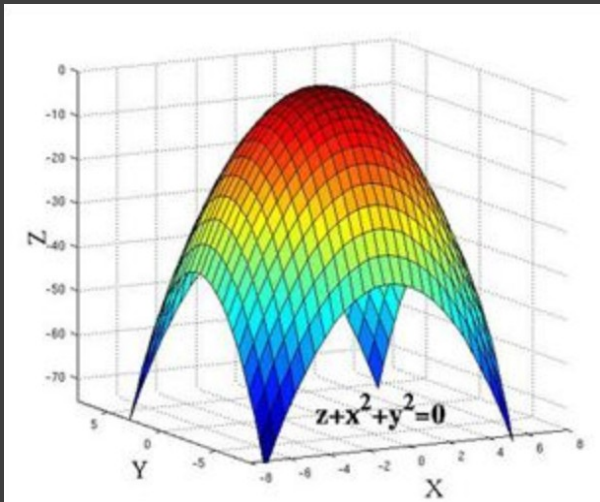
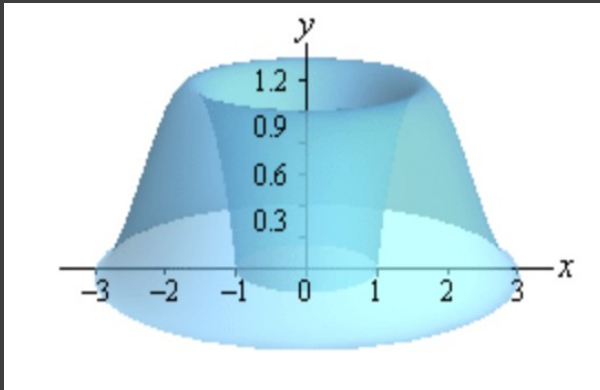
College Credit through Bellevue College :

- 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

2nd 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

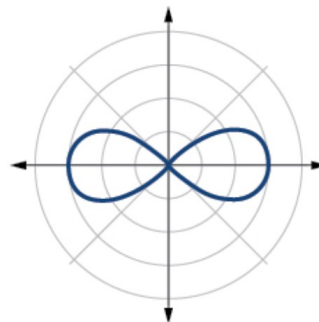
Course Details

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

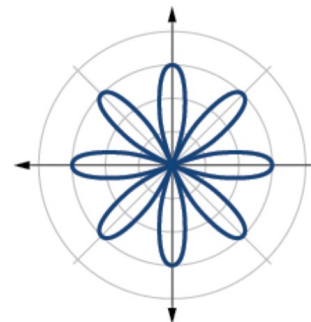
College Credit

- **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

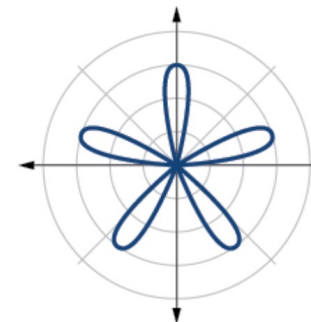
Lemniscate



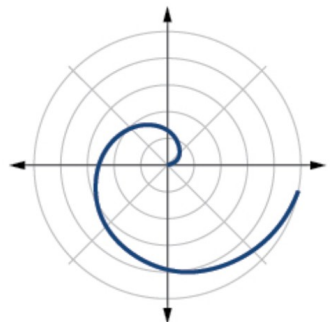
Rose Curve (n even)



Rose Curve (n odd)



Archimedes' Spiral



AP Computer Science A (The Programming AP Class)

- Teacher:
 - Mr. Stave (tstave@lwhsd.org)
 - Credits:
 - Occupational Ed / Science
 - Overview:
 - Language: Java (Beginning - Intermediate Level)
 - Prerequisites: Algebra 2
 - Homework: 30-45 minutes/night
 - Curriculum:
 - Curriculum: University of Washington / MicrosoftTeals
 - 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)

- Teacher:
 - Mr. Stave (tstave@lwhsd.org)
 - Credits:
 - Occupational Ed / Science
 - Overview
 - Language: Javascript (Beginning Level)
 - Prerequisites: Geometry, 9th Grade
 - 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 AppLab 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.
-

Mrs. Perez Cota
jperezcota@lwsd.org

1 year Math
Course

Equivalent to 1
semester
college course

AP Statistics

Four topics covered:

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

AP – Capstone



AP Capstone: Seminar

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 Capstone: 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) or Matt Macomber (mmacomber@lwsd.org)