

# Career Pathway Elective Summit

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# What is the Career Pathway Elective Summit?

- Learn about all elective options!
- How do the electives offered link to my Career Pathway?

Intended Pathway: Arts and Sciences/Business and Tech

# English Electives



The skills you develop in Eng electives will help you reach your college and career goals—no matter what path you pursue!

# The Written Word (aka Creative Writing)

## Course Description

The pen is mightier than the sword! Today, more than ever, what we write, how we express ourselves, and the words we choose matter. **Have fun** while learning the skills to use words in a variety of ways that will allow you to write that perfect tweet, express your feelings, free your imagination, come up with that perfect hook, and more!



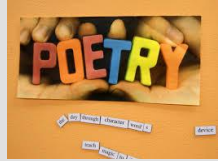
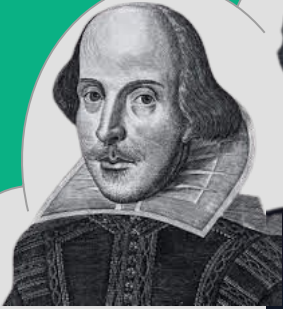
**Explore your creativity and originality** using various writing strategies that allow you to express your ideas in the forms of:

- Short Stories
- Poetry
- Memoir
- ...and more!



Use your critical reading and research skills to study...

- an author
- a period
- a genre
- a style of literature
- You Choose!



# English Open Seminar



# Science Fiction

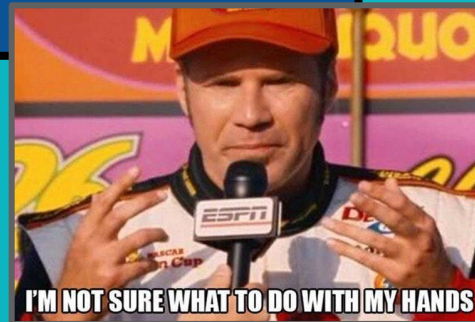
- futuristic technology
- genetic engineering
- artificial intelligence
- space exploration
- time travel
- extraterrestrials



# Communications

What do employers want most in their new hires? Good communication skills!

- Learn valuable life skills!
- Explore small group, digital, public communication strategies.
- Become more comfortable with public speaking!
- Develop your skills for group presentations, panel discussions, and speeches.





# Mixed Media



Channel your technology addiction into something productive!

The impact that all forms of media has had on our civilization is undeniable. Throughout this semester course, you will see how we have evolved into the **digitally social creatures** we are, and **examine its impact upon us and our society!**



–Heated discussions/debates

–Tik Tok resumes? Yes, please!

–How do influencers make money??

–Does social media use impact our mental health?

–Adulthood, professionalism and beyond!



# Social Studies Electives



# AP Human Geography

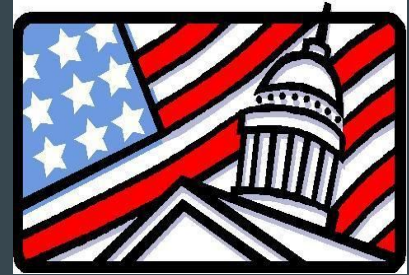
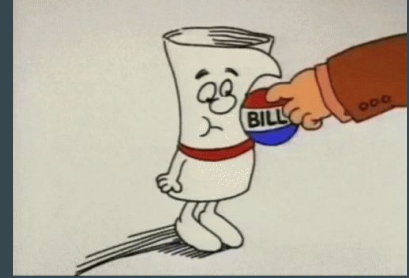
CREATE A BETTER UNDERSTANDING OF:

- POPULATION
- MIGRATION
- CULTURE
- GLOBAL ECONOMICS
- AGRICULTURE
- BORDERS

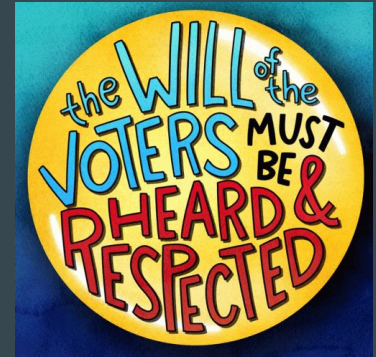


# AP Government

- Learn about US Government and Politics!
- Government is required to graduate, why not take it as an honors class!
- Earn College Credit!
- Do a Community Service Project!
- Learn how to become a better citizen!
- Discuss current events!
- Engage in debates!



VOTE



# AP US HISTORY



Taking the AP<sup>®</sup> U.S. History course can **fulfill your college credit for a history requirement.** However, the skills you develop and the knowledge you'll gain throughout the course will also prepare you for the sort of academic work you'll do in history and other humanities courses in college.

**History**  
is WHO we are and  
WHY we are the way we are.  
History is not just the *Past*.  
**History** is the **PRESENT.**

# Psychology

## The most useful class in the school!

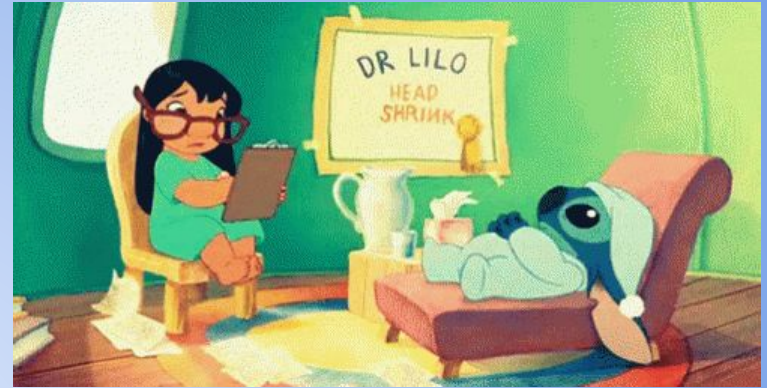
- 1 semester - Just an introduction
- Why does s/he act that way?
  - Why do you?
- How we perceive the world
  - ...and how our brain screws it up
- What would you do?
- Psychological Disorders
  - Common & Uncommon
  - Treatment



# AP Psychology

*Intro to Psych not necessary*

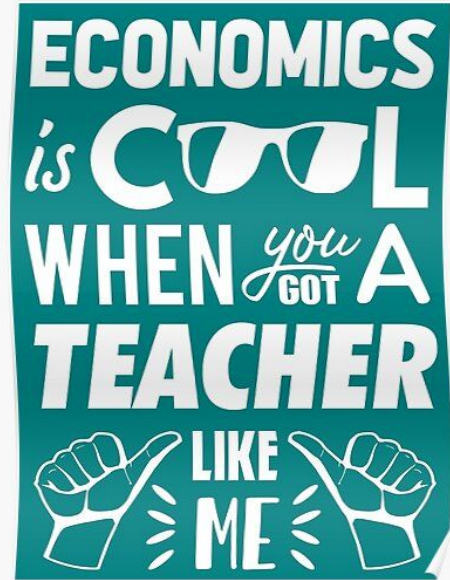
- Equivalent of Psych 101 in college
- Goal is: get college credit
- Deeper dives into all topics from Intro
- We actually replicate many experiments



# Introduction to Economics

## Who should take this class:

1. Anyone wanting to know why gas prices are rising
2. If you are interested in running your own business
3. People interested in how businesses compete for your \$\$
4. Anyone wanting to know who the next global superpower will be



# Practical Law

What you will learn:

- Legal basics
  - Crime scenarios (murder, battery, etc.)
- Solving Chicago's Crime Problem
- How to negotiate like a king!
- We run a couple of mock trials
- We delve into the minds of serial killers and look at famous trials





# Sociology

- Study people's behavior
- Examine the influences of society and culture on you own life
- Discuss prejudice, discrimination and racial/ethnic relations
- Create and carry out a community–wide project



EARN THE ILLINOIS SEAL OF BILITERACY AND GET TWO YEARS OF COLLEGE CREDIT!



- \*college
- \*career
- \*communication skills
- \*culture
- \*brain function

# World Languages Electives

# Italian: Do you want to learn how to speak the language of...

**MUSIC?** Come listen to beautiful music. Learn that Italians were the first to write music.

**Film?** We watch movies that have influenced filmmaking.

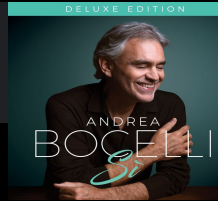
**Art?** Let's explore more than half of the UNESCO World Heritage sites.

They're all in Italy.

**Design?** We learn all about architecture, product design, and fashion.

## What do we do?

- We learn how to speak one of the most beautiful languages in the world!
- We can earn Honors Credit for levels 1-4.
- We eat the most delicious foods!
- We go on field trips!
- WE GO TO ITALY!**
- We celebrate all the holidays and learn about customs!
- We plan and go to Festa Italiana!
- We make friends and learn about in Italy from our pen pals in Milan.
- We earn college credit through AP Italian Language and Culture course.



# VENITE! COME JOIN US! WE WOULD LOVE TO HAVE YOU!



# Spanish *The language of opportunity & diversity*

In Spanish class we...

- learn how to communicate in the second most popular language in the United States
- learn about the cultures and customs of 21 Spanish-speaking countries
- listen to & analyze many of those great songs you love to listen to with your friends
- offer honors-level credit in levels 1-4 and AP Spanish, a dual-credit course which earns you college credit
- improve our English-language skills through the study of Spanish
- can instantly practice our skills throughout the school & our community .... Spanish is Everywhere!

**¡Ven a aprender el español!**

# Familias y Culturas - is taught entirely in SPANISH and is open to bilingual SPANISH speakers.

- **DISCUSS/SHARE LATINX EXPERIENCES**
- **EXPAND YOUR SPANISH VOCABULARY**
- **IMPROVE YOUR SPANISH READING/ WRITING SKILLS**
- **STUDY CURRENT CULTURAL EVENTS OF THE SPANISH-SPEAKING WORLD**

**Upon completion of this course, students will be recommended for either Spanish 3, Spanish 4 or AP Spanish based on their skills in Spanish.**





**Business  
Electives**

# Introduction to Business

- Economics
- Business Management
- Marketing
- Finance & Accounting
- Career Options

# BUSINESS



# Algebra 2 in Business

- Financial Portfolios
- Managing Loans
- Taxes
- Starting a Small Business
- SAT Prep
- Algebra II Credit





# Dual Credit Marketing



- \*Create your personal Logo
- \*Run a photoshoot
- \*Photoshop magazine covers
- \*Create a sports team
- \*Conduct a taste test for a new beverage
- \*Create billboards and commercials
- \*Design a shoe and market it
- \*Make a commercial
- \*Make a Social Media Campaign



## Advertising Strategies



Radio Ad Link:  
(select the radio pic)



# College, Career, and Life Planning - 1 Semester

- Evaluate your strengths
- Match your personality and skills to careers
- Compare careers and how they meet your needs/wants
- Research colleges, universities or other training
- Job shadow in the career of your choice
- Apply to schools
- Take tours of schools



# Computer Concepts and Software Applications

- Get a **CERTIFICATE** in Microsoft Word
- DUAL CREDIT** with Triton
- Build professional presentations
- Learn spreadsheet skills



# Personal Finance - Dual Credit (1 Semester)

- Budgeting your money
- Credit Cards and your Credit Score
- Minimizing Risk with Insurance
- Making Major Purchases
- Investing and Savings
- Retirement Planning
- Loans and Debt Management



# WORK PROGRAM



- Leave school early to go to work!
- We can help you apply for jobs!



- Class is 1 day a week.
- Save money for college!
- Learn workplace skills.
- Learn money management.

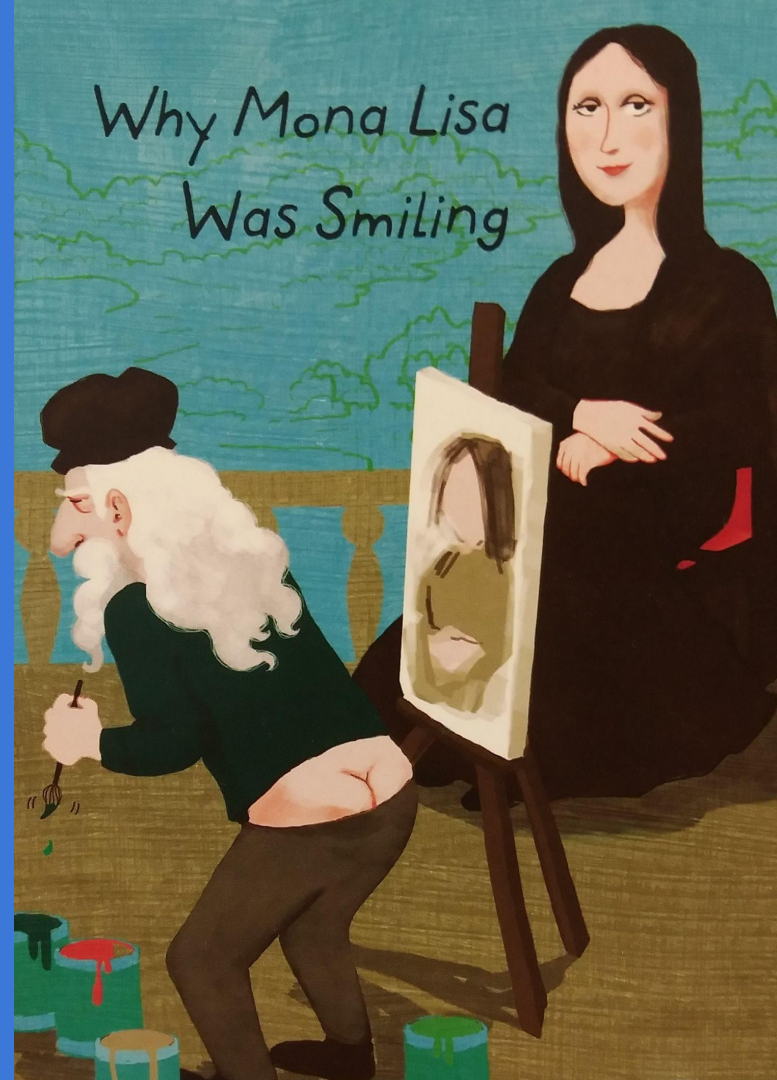
# Fine Arts Electives

# Introduction to Art

Want to learn to draw, paint, sculpt and express yourself through 2-D and 3-D media?

Included in this course:

- basic drawing techniques,
- how to apply the elements of art and principles of design
- explore a variety of media, materials and techniques,
- linear perspective,
- figure and portrait drawing,
- sculptural techniques,
- historical/contemporary art history and culture,
- and art critique.



# Sculpture

Want to learn to Sculpt and express yourself through 3-D media?

Included in this course:

- explore a variety of materials, media and tools
- explore sculpting techniques: carving, casting, modeling, assembling, and construction
- how to apply the elements of art and principles of design
- historical/contemporary art history and culture,
- and art critique.





# Graphic Arts

Want to learn how to visually express an idea through graphic design?

Included in this course:

- learn to use Adobe Illustrator and Photoshop
- learn basic text and illustration techniques, image manipulation and image production techniques
- work creatively and efficiently through a series of design projects.
- how to apply the elements of art and principles of design
- historical/contemporary art history and art critique.
- graphic art careers



# Introduction to Music

Film score unit

Study the music of Hans Zimmer and John Williams!

Trip to Chicago Symphony Orchestra

Piano/Guitar unit

Electronic Music Composition Unit



If you have a passion for music, but don't play in band...

THIS IS FOR YOU!!!!

## Ensembles offered at RHS!

# RIDGEWOOD HIGH SCHOOL BANDS



Symphonic Wind Ensemble (audition only)  
Symphonic Band (audition based) - no experience needed

Concert Band (freshmen)

Jazz Band (any and all students!)

Athletic Band (all students!)

- Flexible with other sports, clubs, activities

Musical theater!

Percussion Methods - Percussion students ONLY

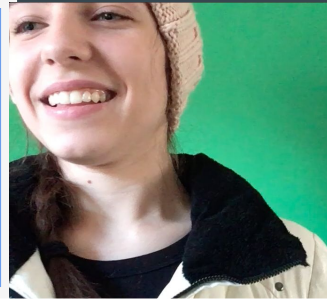


WALT DISNEY

### Fun Facts:

- Largest student group on campus
- Earn a PE waiver
- Travel opportunities!
  - We travel every year!!
- *Student\$ are often awarded college Scholar\$hip\$ Simply because they play in band*

# Theater Arts 1: Acting

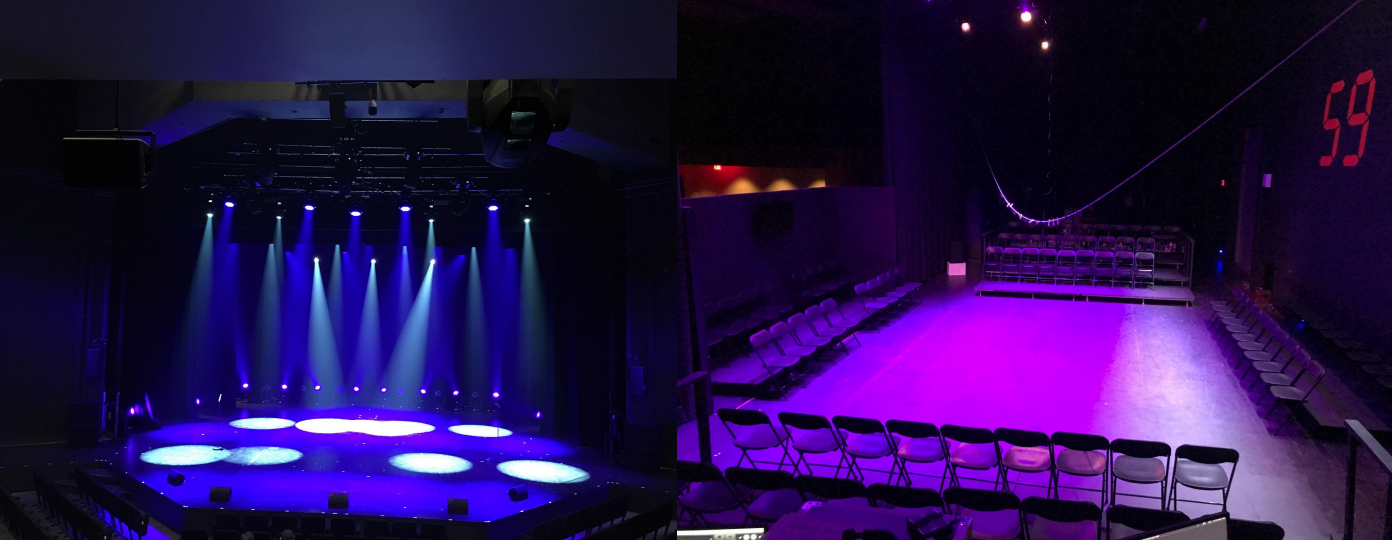


Learn to perform in front of others! In this on-your-feet class, learn the skills to be confident when delivering a presentation, keeping cool during an interview, and acquiring the techniques for effective memorization and delivery. Improvisation, characterization, vocal techniques, and stage vs film acting are all included in the course.



# Theater Arts 2: Technical Theatre

Learn how to design, build, and bring your imagination to life through this interactive hands-on course. Learn the **differences** between **mixing paint colors** from **light colors**. Learn how to **bring a sound design to life** for a performance. Learn how to program lights for theatre, dance shows, and live music events. Learn to draft a stage design and how to build it. With the skills learned in this class, you can be hired to work for the Ridgewood Auditorium Staff, and learn the skills that you can take to the next level!

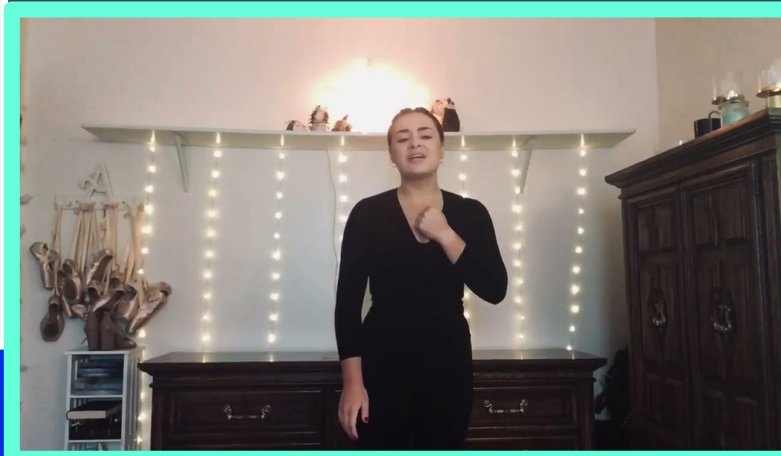




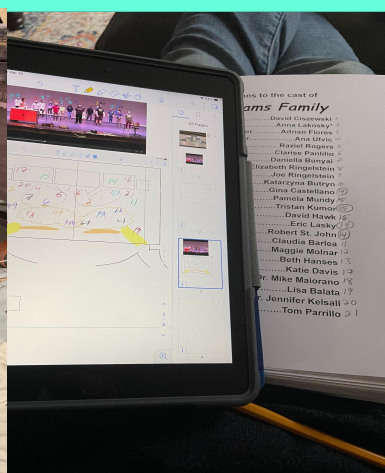
# Theater Arts 3: Musical Theatre



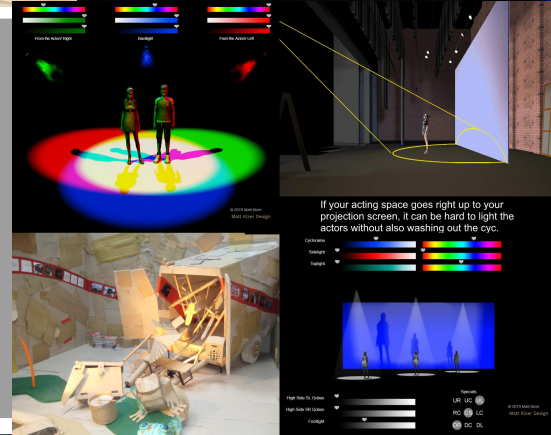
Learn the methods to becoming a triple threat! An actor that can act, sing, and dance! Learn how to develop the skills to improving your singing voice, breath control and endurance while dancing, and improving your character development, including ensemble and chorus work. The final for this class is a live musical performance!



# Theatre Arts 4: Technical Theatre Design



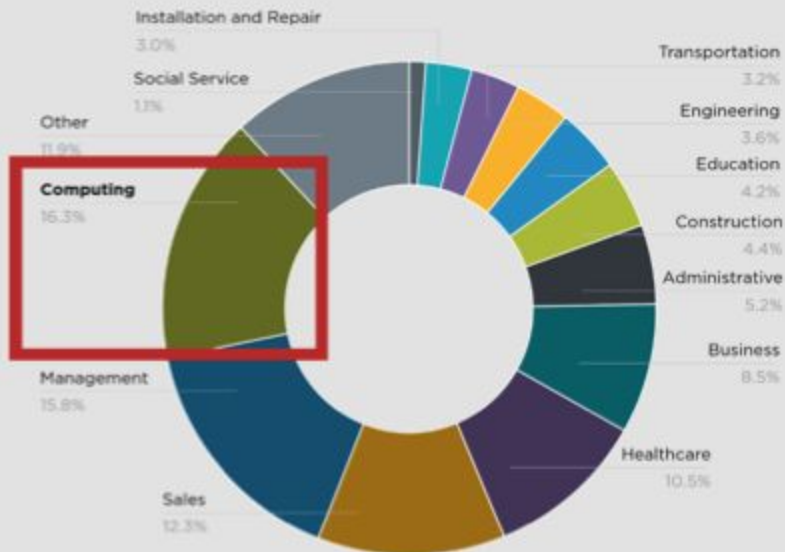
In this advanced practical course, learn to bring your creations to life for live theatre productions and/or film and editing. Take field trips to local Chicago theaters to meet and talk to designers and stage hands. Learn the skills that can lead to working in theatre/film behind the scenes.



# Computer Science Electives



# Computing jobs are the #1 source of new wages in the United States



**500,000 current openings:**  
These jobs are in **every** industry and **every** state, and they're projected to grow at twice the rate of all other jobs.

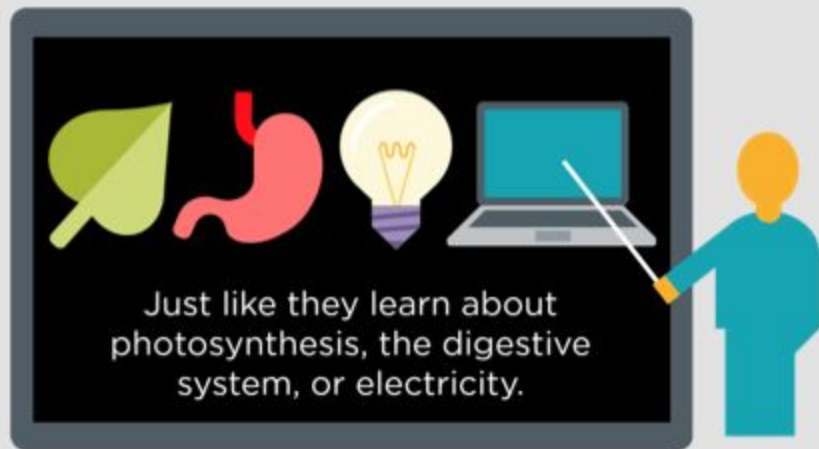
**In Illinois, there are currently 21,283 open computing jobs with an average salary of \$84,104.**

**Yet, there were only 2,596 graduates in computer science in 2018 and only 45% of all public high schools teach a foundational course.**

# Technology affects *every* field



**Every 21<sup>st</sup> century student should have a chance to learn about algorithms, how to make apps, and how the internet works.**



# Introduction to Computer Programming

*\*Python Programming - one of the top programming languages*

*\*Immediate Results using Graphics*

*\*Create an Autobiography using code*

*\*Build an interactive image using code*

*\*Learn how to develop a full-scale game in code*

*\*Dual-credit option available for every student*



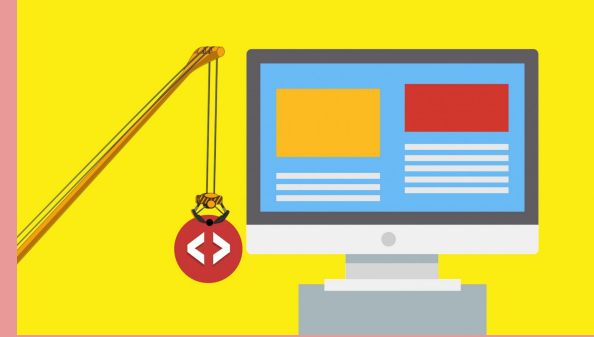
# Web Development

Students will learn the necessary components needed to build and design webpages from scratch

\*HTML

\*CSS

\*Javascript



**CSS**



**HTML**



# Introduction to Computer Engineering

- \*Learn how to **truly** build a computer from complete scratch.*
- \*Learn what truly is the difference between a processor, a CPU, and RAM*
- \*Hands-on course: Build your own circuits using simple principles*
- \*A combination of work with software and hardware*
- \*You can even learn how to develop your own programming language*
- \*Only experience required: Introduction to Programming and a curiosity to explore what makes the technologies we all use tick*

# Cybersecurity

*\*Do what modern cybersecurity professionals do **to identify** active and potential cyber threats.*

*\*Do what modern cybersecurity professionals do **to secure** computers that have been compromised.*

*\*Do what modern cybersecurity professionals do **to prevent future cyber threats** from impacting a computer, or even all computers on a network or system.*

*\*Only prerequisites: **curiosity** and **an interest in detective work***

*This course provides students with the skills and knowledge to be able to identify and to eliminate cyberthreats, while also strengthening the overall security of a computer. Students use real industry tools and cyber forensic skills by accessing a machine hosted by a remote server. No prior experience is required, but students must be interested in detective work.*

Students can expect to leave this course empowered with highly marketable skills in a rapidly evolving field within Computer Science.



# AP Computer Science Principles

Students use technology daily so why not learn how it works. Topics include Digital Information, The Internet, Intro to App Design, Data and Cybersecurity and Global Impacts.



- App Creation for AP Test
  - AP Test in May
  - Hands on Activities
  - Unplugged Examples



# AP Computer Science A

- \* Build upon your skills developed in Intro to Programming to unlock your true potential in computing by learning to code in Java.*
- \* Complete an Advanced Placement course that is recognized for credit by over 800 colleges and universities.*
- \* Discover skills that will prepare you for nearly every other computer science course available at 2-year and 4-year colleges and universities.*
- \* Discover talent and creativity you never knew you had in an artform that is redefining the way we understand the world around us!*

# Tec/Vocational Electives

# Woodworking Technology/Advanced Woodworking



Woodworking: Wall Shelves, Night Stand, Double Doored Bookcase

Advanced Woodworking: Desk, Projects You Choose, and Learn How to Use CNC Router

SKILLS THAT LAST A LIFETIME

# Computer Aided Design (CAD)

Learn How to Use 3D Software to Design



# Introduction to Construction Trades

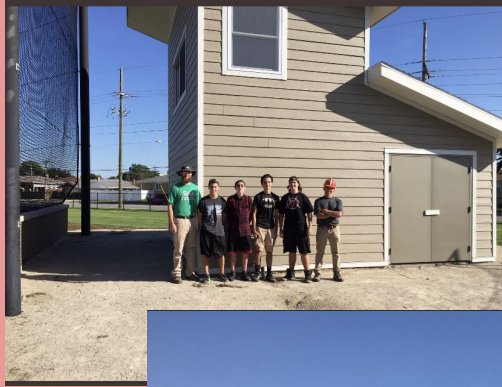
Learn Carpentry,  
Plumbing, and Electrical  
Skills

Prepare you for Trade  
School

LEARN SKILLS THAT  
WILL LAST A  
LIFETIME



# Geometry in Construction

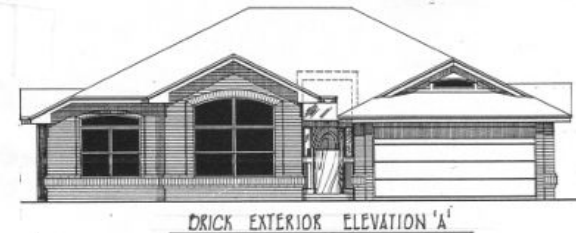
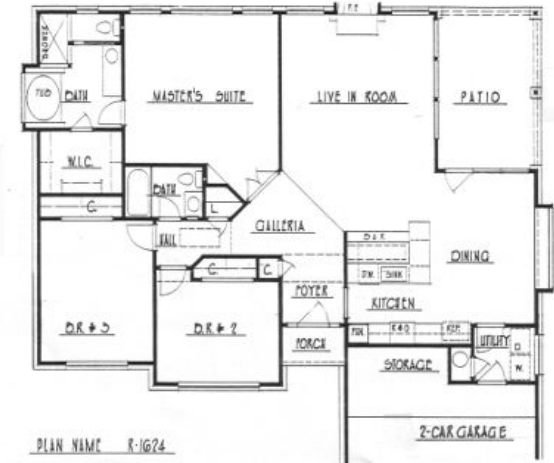


# Architecture/Drafting

Use 3D Parametric Software to design houses and learn principles of architecture

LEARN SKILLS THAT WILL LAST A LIFETIME

\*CAD is a Pre-Req to Architecture





**Science**

# AP Chemistry

What is this all about?

- Chemistry at the college level.
- More labs!
- More memes!
- Great prep for taking any science in college.



# College Biology

This is a college level course that gives you college credit at most universities.

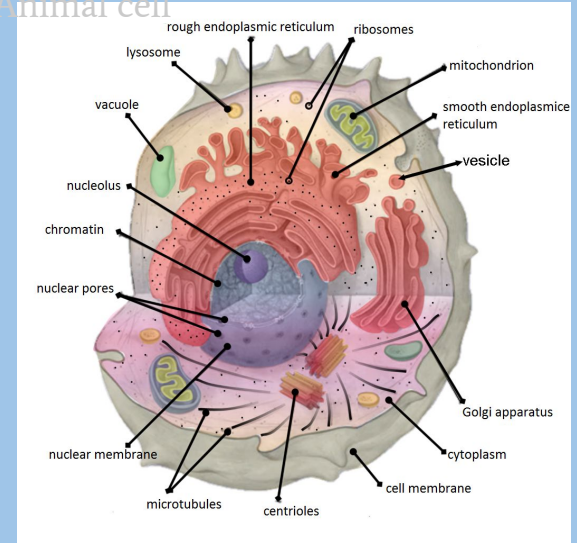
The course will investigate life on the molecular, biochemical, and cellular levels in an attempt to explain the total organism and the relationship it has with the environment.

What that means is that this course is all about the microbiology not the macrobiology, such as ecology, evolution, animal, plants.

The course covers what is generally the first semester of a two series in college, where the second semester is macrobiology

Be aware that this course uses a lot of chemistry

Animal cell



# ISC 2 Health & ISC 2 Food not cooking

- **IS2 Health** is designed to give students a better understanding of the human body
  - Students will learn basic concepts of biology and chemistry related to the human body
  - Projects are designed to give students the choice to learn about how certain disorders impact the body and how we treat them
  - Students will also have to solve case studies based on real life situations
- **IS2 Food Ed.** will give you a better understanding of how food plays a role in:
    - our social lives,
    - health,
    - economy,
    - and how politics drives many of these roles.
    - Food chemistry
  - We do labs and projects with a lot of student choice.
  - We also get to cook and eat food that relates to the topics we are talking about in class.

# Environmental Science



- **A project-based learning & laboratory science course that enables students to develop an understanding of natural and manmade environments and environmental problems the world faces.**
- **Students explore Earth systems, the living world, human populations, water and land resources, energy resources and consumption, pollution and waste production, global change, and civic responsibility.**
- **A camping trip is open to interested students!**

# Mathematics Courses

Majors that require mathematics courses include: statistics, economics, physics and engineering, biology, chemistry and other natural sciences, computer science, psychology, and mathematics.

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## What Can You Do with a Math Degree?

Some professions that require a math degree

- Actuary
- Statistician
- Economist
- Financial Analyst
- Data Scientist
- Software Tester
- Math Teacher
- Purchasing Agent



# AP Calculus AB

## The main topics include

- Limits
- Derivatives and their applications
- Integrals and their applications
- Preparation for AP exam

## Why take AP Calculus while still in high school?

- Find out if a major requiring math courses is right for you.
- Take the course for full year instead of one semester.
- Save time and money if you score 4 or 5 on AP exam

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# Dual Credit Mathematics Courses offered at Ridgewood High School

## Honors Precalculus

- College Algebra - first semester - 3 credit hours
- Plane Trigonometry - second semester - 3 credit hours

## Statistics

- Elementary Statistics - 3 credit hours

## AP Calculus

- Calculus and Analytic Geometry - second semester - 3 credit hours



# Why is it worth to earn dual credit for mathematics courses?

**01**

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## **Save Time and Money**

Many schools in Illinois that offer courses with similar description will accept the credits.

**02**

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## **Experience the requirements of college level course**

You will experience some aspects of college-level course taught by familiar high school faculty.

**03**

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## **Earn college credit regardless of AP exam score**

A grade of C or higher will earn you dual credit regardless of AP exam score.

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# Honors Precalculus

- Strengthen your algebra skills and learn more about functions to prepare for calculus course
- Learn more math using technology that will be used in more advanced courses
- Explore applications of different functions
- Learn trigonometry and its applications



# Statistics

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- Learn the basics of probability and how its used
- Learn the process of data collection hands-on
- Explore your interests from statistical point of view while working on your long-term project
- Learn the basics of data analysis
- Use technology for calculations and strengthen your problem-solving skills necessary for data analysis