

CULINARY ARTS 1 AND 2
CAN BE USED AS OCCUPATIONAL EDUCATION CREDIT
OR SCIENCE CREDIT

TAKE BOTH CULINARY 1 & 2 YOU QUALIFY FOR 9 COLLEGE CREDITS



Industrial Design/ 3D Printing

with Mr. Nipp

Software:

Autodesk Fusion 360

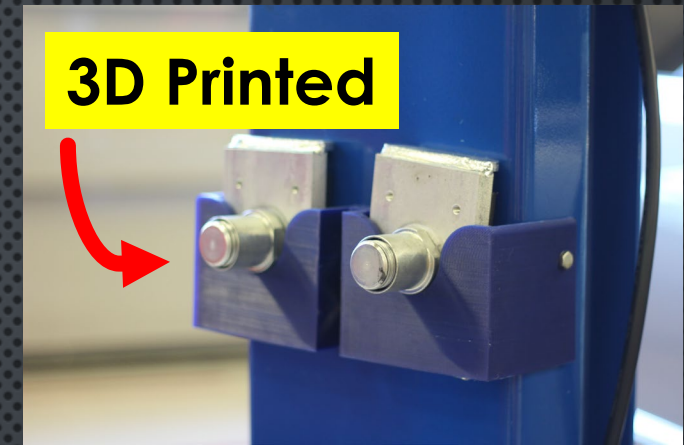
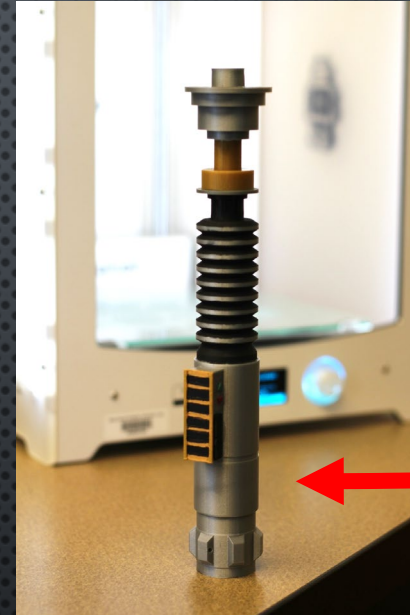
Blender

1 semester .5 CTE credit

College Credit

- Design and model objects in Fusion 360 or Blender
- Design, model, print - IN CLASS!
- Create functional parts
- Create gifts
- Design and print inventions

In class, project based, self paced learning



Designed and 3D
Printed in class!!

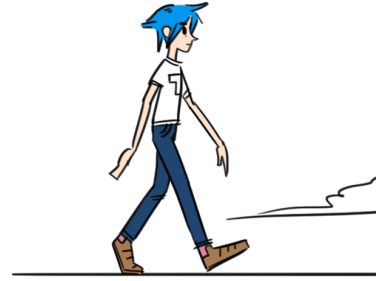
Use this **Fusion3**
to bring
your designs to life!



Graphic (Digital) Design and Production

with Mr. Nipp

Create a **GIF** in Photoshop!



Software:

Adobe Illustrator
Adobe Photoshop

1 semester .5 CTE credit

College Credit

- Vector and raster graphics
- Create posters and logos
- Learn compositing in Photoshop
- Create a frame-by-frame animation
- Print on wide format Epson printer

In class, project based, self paced learning



Monochromatic
landscape in Illustrator

Make your text
POP with text effects



VIDEO PRODUCTION 1 & 2

1. Get hands-on experience planning, writing, directing, shooting, editing and producing video using digital video cameras and professional editing software.
2. Work alone and in groups on various video projects, including: public service announcements, music videos, documentaries, and short films. Videos may be selected for entry into competitions.
3. This class prepares you for advanced college courses and/or for work in industry.
- 4.



BROADCAST COMMUNICATIONS

Learn about:

- **News and Sports broadcasting**
- **Studio and Control Room operations**
- **Writing, interviewing, filming, and editing skills**

Join the KANG TV News Team as:

- **News Anchors & Reporters**
- **Videographers & Editors**
- **Studio & Control Room crew**

Learn from workshops with local broadcasting and other industry pros

***Your work may be entered into competitions**



Marine Biology: Human Impact

1 Semester—Science or CTE Credit!

- Explore these marine ecosystems and learn how humans are impacting them.
 - Kelp Forests
 - Deep Sea
 - Intertidal Zone
- **Includes a fieldtrip and at least one dissection!**



Marine Science: Climate Change

1 Semester Course

The background of the slide is a scenic landscape with a large, snow-capped mountain peak under a clear blue sky. Below the mountain is a dense forest of evergreen trees along a shoreline. In the foreground, there is a body of water. Two smaller images are overlaid on the bottom left: one showing a salmon swimming near vibrant red seaweed, and another showing an orca breaching the water's surface, creating a splash.

1 Semester Course



Includes a fieldtrip & dissections!



AP ENVIRONMENTAL SCIENCE (APES)

Year Long Elective

Counts toward Science OR CTE!

**Biology Required, Chemistry taken
concurrently or prior**

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

This class is very hands-on and relevant to what is happening around the world.

LEARN ABOUT...

- **POPULATION GROWTH**
- **FEEDING THE WORLD!**
- **CLIMATE CHANGE'S IMPACT ON THE GLOBE**
- **TAKING CARE OF ANIMALS**
- **GROWING PLANTS**
- **AND MUCH MUCH MORE**

Business & Finance

Personal Finance

Banking, investing, insurance, credit cards, taxes, budgeting ... all that “adult” stuff

Personal Finance #2: Wealth Management

Want more!? Go deeper into investing and money management

Microsoft Office

Become an expert and get certified in Word, Excel, PowerPoint, and more!

Accounting

Take your business knowledge one step further and follow the numbers

College
Credit!

I'm Late...



For Econ Class!

**Thinking of studying business
or marketing?**

**Interested in learning about
how the economy works and
why people make the decisions
they do? Like playing games?**

You have two options!

**AP Economics or
Economics**

Personal Finance also known as Advanced Wealth Management!

- Did you take personal finance, but want to learn more about wealth management? Take this class!
- One semester elective for those who have already taken personal finance (juniors and seniors)
- Contact Ms. Kraus for more details (mkraus@lwsd.org)



Marketing Classes

Business & Marketing Foundations

Analyze customers, products & advertising

Retail Management

(Student Store) Develop products & business management skills

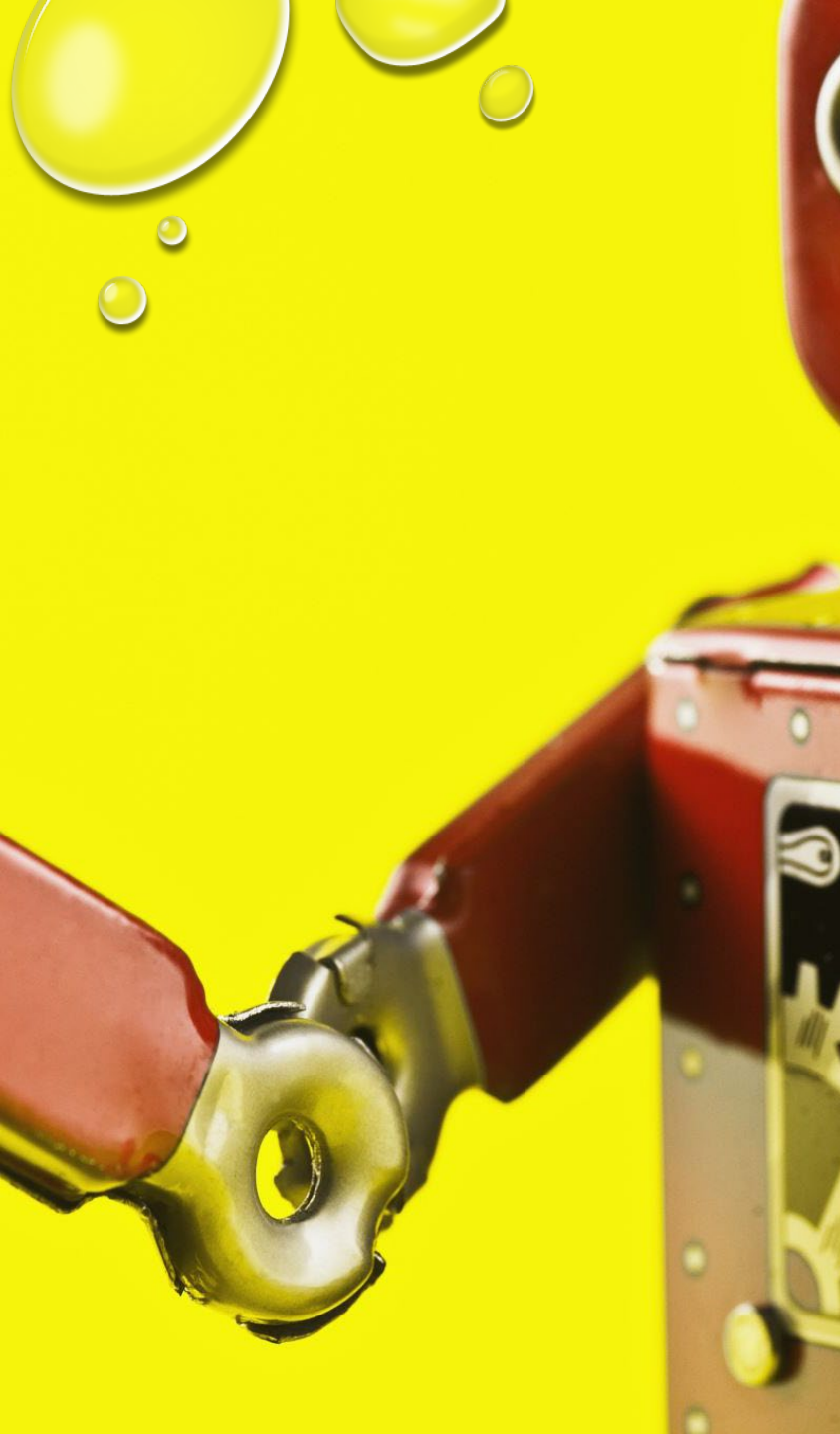
Sports & Entertainment

Analyze entertainment marketing strategizes

Digital Marketing & Social Media

Analytics & strategies to improve your digital marketing

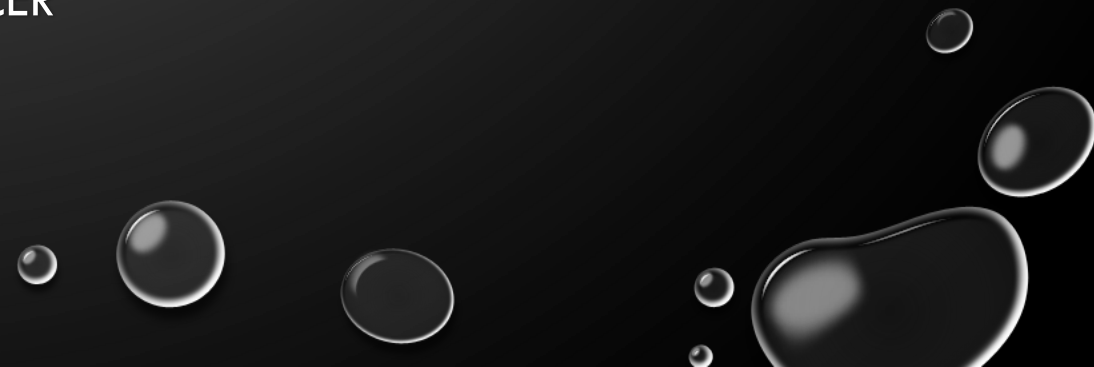
College Credit!



ROBOTICS 1

- LEARN TO CODE
- LEARN TO SOLDER
- LEARN ABOUT BREADBOARDING
- BUILD AND PROGRAM A SMALL ROBOT USING AN ARDUINO
- ADD ENHANCEMENTS TO MAKE THE ROBOT FAST, AGILE, ABLE TO PLAY SOCCER

IT IS FAST AND FUN!



WHAT IS ENGINEERING DESIGN?



INTRODUCTION TO ENGINEERING DESIGN

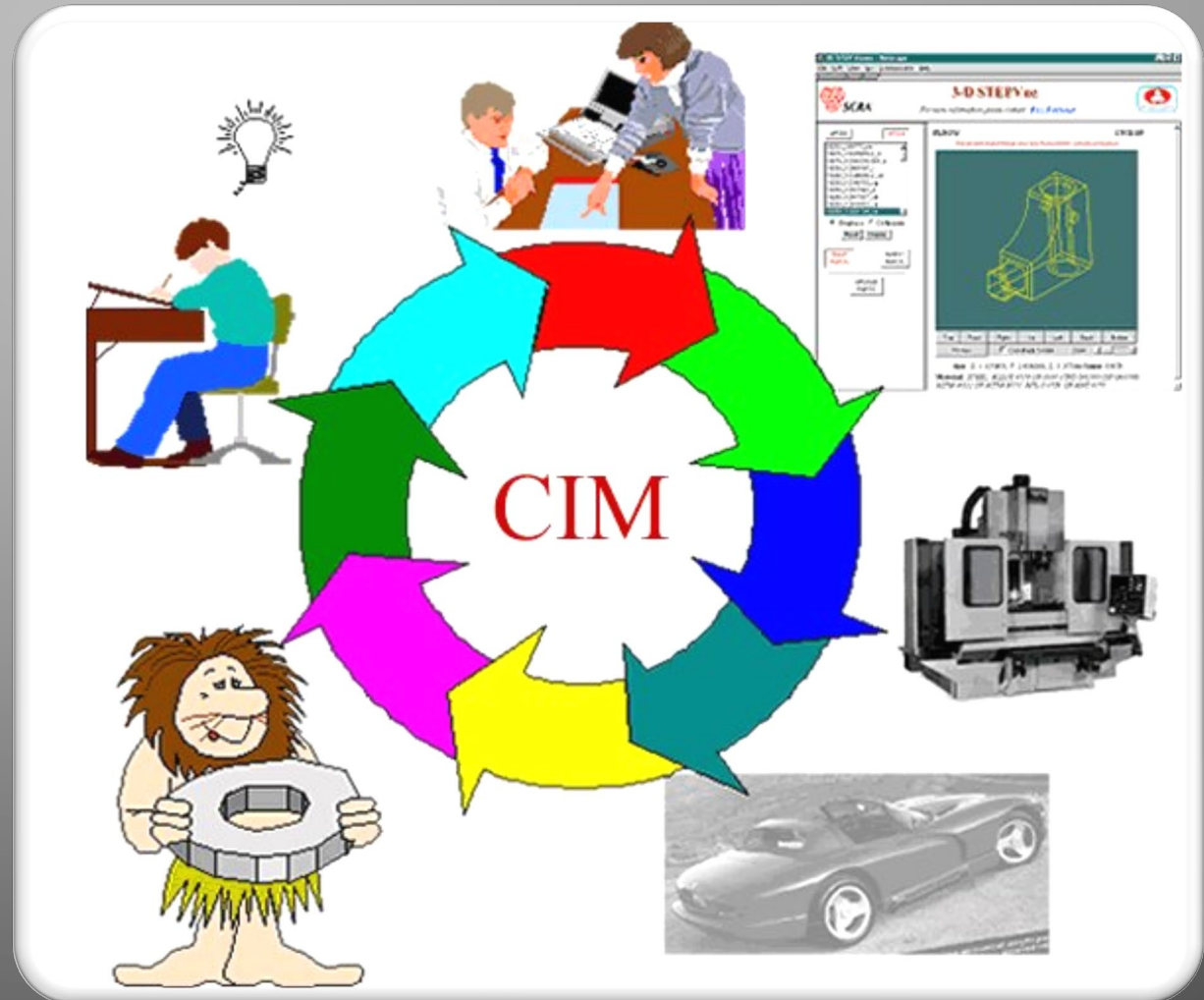
- CREATIVE PROBLEM SOLVING
- CONSTRUCTING PROJECTS
THAT PROVIDE SOLUTIONS
- LEARN TO USE THE SHOP
MACHINERY

COMPUTER INTEGRATED MANUFACTURING:

MAKE PROJECTS USING SOFTWARE
AND MACHINES!

CONTACT MR. CATTIN FOR
INFORMATION.

WCATTIN@LWSD.ORG



AP COMPUTER SCIENCE A

THE PROGRAMMING CLASS

1 YEAR; OCCED OR SCIENCE CREDIT

- 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)
- 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.
- Lab based course.

AP COMPUTER SCIENCE PRINCIPLES

THE COMPUTER CONCEPTS AP CLASS

1 YEAR; OCCED OR SCIENCE CREDIT

- 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 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.

DATA STRUCTURES (AKA COMPUTER SCIENCE 3)

THE ADVANCED PROGRAMMING CLASS

1 YEAR; OCCED

- OVERVIEW:
 - PREREQUISITES: AP COMPUTER SCIENCE A
 - LANGUAGE: JAVA (INTERMEDIATE-ADVANCED LEVEL)
 - HOMEWORK: 15-30 MINUTES/NIGHT
- CURRICULUM:
 - LEARN ADVANCED PROGRAMMING DATA STRUCTURES IN JAVA
 - WE ALSO COVER A VARIETY OF EXTRA TOPICS AND PROJECTS

Overview:

- Now that you've finished AP Computer Science A, are you interested in taking your skills to the next level?
- This is a one-year elective choice, open to those who have completed AP Computer Science A (juniors and seniors)

Bottom Line:

- At the end of this course, you will have the skills needed to manage complex programming projects that work with large amounts of data.
- You will be prepared for college similarly to a student in a specialty stem preperatory school.

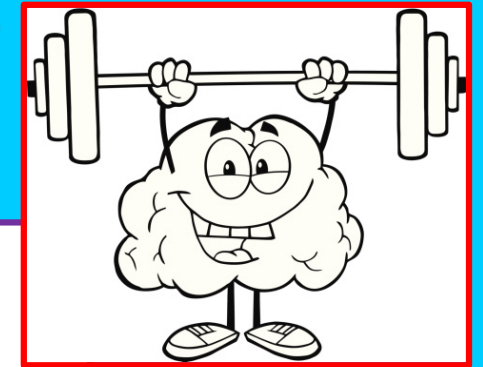


CHILD DEVELOPMENT I

- LEARN ABOUT THE PHYSICAL, INTELLECTUAL, EMOTIONAL, AND SOCIAL DEVELOPMENT OF A CHILD, STARTING WITH PREGNANCY AND ENDING WITH LEARNING THEORIES.
- EXTENDED LEARNING PROJECT OPPORTUNITIES, INCLUDING TAKING HOME A REAL CARE BABY!
- CONTACT MRS. FRADKIN: SFRADKIN@LWSD.ORG WITH ANY QUESTIONS



PSYCHOLOGY



1 semester, Grades 9-12, Occasional Homework

Meets Social Studies &
Occupational Education Requirements

Find out what makes people tick!

How can you improve your memory?

Why do we dream? Are you hypnotizable?

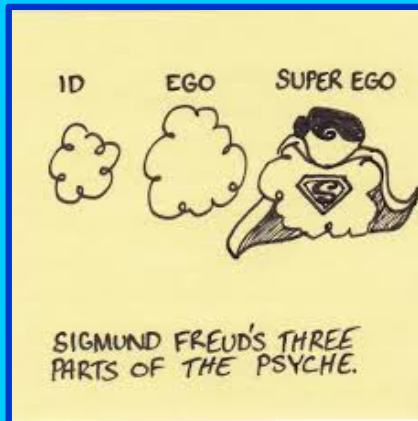
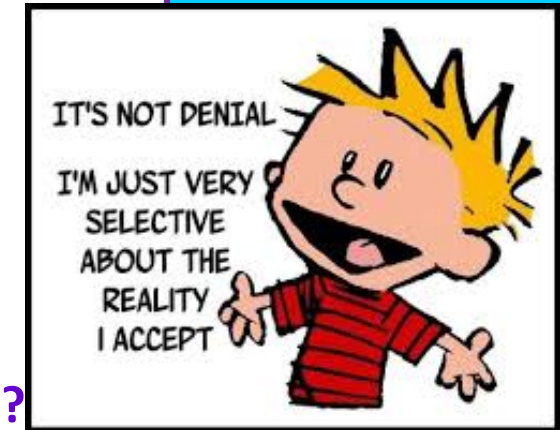
Are IQ tests accurate?

Why do people choose to help (or not to help) others?

Which human characteristics are universal?

How are our minds and bodies connected?

Learn about the human mind and behavior through
discussion, group activities, demonstrations, projects,
video and case studies.



A.P. Psychology



Discover what Psychology is all about

- Abnormal behavior & Treatments
- Testing & Intelligence
- Biological causes of behavior
- Psychology as a science
- Research and experiments
- Learning & Memory
- Personality development
- Addiction, Sleep, Hypnosis
- Social & Cultural psychology

Equivalent to college level
“Psych. 101”

- No prerequisite
- Hands-on simulations, demonstrations and experiments
- 75% of grade based on tests & occasional projects
- Nee to be Self-motivated with disciplined study habits





URBAN AGRICULTURE PLANT & AGRICULTURAL SCIENCES

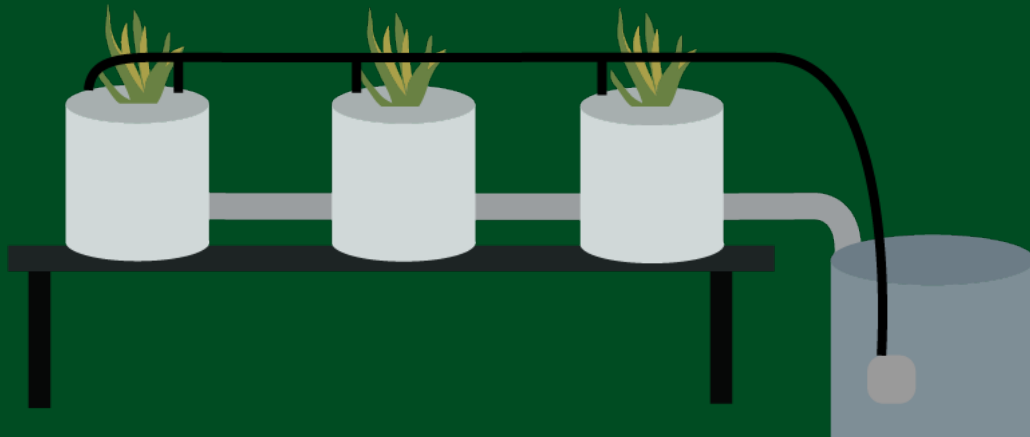
- HOW TO GROW YOUR OWN CROPS IN CREATIVE SPACES
- THE BASICS OF GARDEN LAYOUTS
- PREPPING A GARDEN FOR PLANTING
- STARTING CROPS INDOORS
- SUCCESSION PLANTING AND COMPANION PLANTING
- USING FOUND CONTAINERS TO GROW CROPS
- THE BENEFITS OF GARDENING AS A DE-STRESSER



ADVANCED URBAN AGRICULTURE

YEAR-LONG GARDEN PLANNING AND PRODUCTION

- WORKING WITH FRESH FOODS
- EXPLORATION OF GARDENS IN THE COMMUNITY
- AQUACULTURE AND HYDROPONICS STUDY
- AGRICULTURAL CAREERS



Leadership Development

Year long course – CTE credit!

Learn about leadership both in and outside of school.

Engage in the community through group project work like spirit weeks, campus improvement, decoration, positivity activities and more.

Learn about student government in schools, student body money, and more! Be a part of a group of students who help make LW a better more inclusive place.

Leadership and Project Management

Year long course – CTE credit!

Be a part of the group that handles student money and runs things like Homecoming, dances, prom and more.

Run for election in March. This class is by appointment/election only. See Mr. Grundl for information.