



# THE HAWKS NEST



## UPCOMING DATES:

**DECEMBER 4TH: RISING 9TH GRADER NIGHT 6PM: START IN AUDITORIUM**

**DECEMBER 11TH: EARLY DISMISSAL**

**DECEMBER 17TH: ACADEMY BOOSTERS MEETING A130 BY CAFE**

**DECEMBER 20TH: LAST DAY OF THE SEMESTER**

- Meet Our Team
- Academy Senior Showcase Events
- 2024-25 Junior/Senior Projects: Are you interested in sponsoring a group?
- Senior Honors Design and Technology
- Junior year: PLTW Engineering Design and Development

## UPDATED WEBSITE

New this year, our Junior and Senior projects will be forward facing. The project ideas along with their updated progress will be posted on our Academy webpage accessible through the Bartlett High School webpage. You can click [HERE](#) to see them as students add to their progress.

## 1ST EVER ACADEMY BOOSTERS!

We have been working to get parents invested and involved in the Academy experience. While we have some interested parents and a general idea of steps we can take to support our students, we've had a hard time getting a larger parent investment.

We will try one more general meeting where the hope is to identify a board and gain some momentum heading into 2025.

**December 17th 6pm A130.**



# FROM MR. GLORIOSO

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AS WE HEAD TO THE END OF SEMESTER ONE, STUDENTS ARE CONTINUING TO BUILD THEIR KNOWLEDGE ON THE DESIGN PROCESS AND ENGINEERING DESIGN. THE STUDENTS HAVE LEARNED SOME KEY CONCEPTS ON HOW AS DESIGNED WE VIEW OBJECTS AND HOW WE LOOK AND MAKE MULTIVIEW DRAWINGS MORE TECHNICAL. BY REFINING OUR FUSION 360 MODELING SKILLS, STUDENT WAS ABLE TO WORK WITH THEIR CLIENT AND PRODUCE THEIR CLIENT A 3D PRINTED KEYCHAIN.

WHILE REVIEWING TECHNICAL DRAWINGS, STUDENTS HEADED INTO BREAK MY MODELING AND ASSEMBLING A "TURKEY COOKIE". THE TURKEY COOKIE WAS MADE UP OF, OREOS, HERSHEY KISS, CANDY CORN AND REESE'S CUP. EACH STUDENT MODELED USING THEIR PRIOR KNOWLEDGE ON MODELING IN FUSION. THEY THEN LEARNED ABOUT ASSEMBLY TOOLS TO ASSEMBLE THE "TURKEY COOKIE" IN FUSION. THEY WERE EVEN ABLE TO MAKE A FEW IN REAL LIFE!!!

TO FINISH THE SEMESTER OFF, THEY WILL BE GOING BACK TO WORKING WITH A CLIENT AND DOING A CROSS CURRICULUM PROJECT WITH CULINARY ARTS. DEPENDING ON THE HOUR, STUDENT WILL BE MAKING EITHER COOKIE CUTTERS OR CHOCOLATE MOLDS FOR THEIR CLIENTS NEEDS. THIS IS A STUDENT FAVORITE AS THEY WORK WITH SOMEONE THEY HAVE NEVER MET AND THEY GET TO EAT THE FINAL RESULTS THE CLIENT MAKES.

BEFORE THE SEMESTER ENDS THAT STUDENT WILL BE DESIGNING, 3D MODELING, ASSEMBLING AND MAKING A SNOW GLOBE. JUST LIKE THE TURKEY COOKIE, THIS PROJECT WILL START FROM AN IDEA AND THE STUDENT WILL BRING TO FORWISHEN.

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# FROM MS. MADDEN

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IN AIM 2, WE ONLY HAVE ONE MORE UNIT BEFORE THE END OF SEMESTER 1! UNIT 3 IS ALL ABOUT SOLVING QUADRATIC EQUATIONS BOTH ALGEBRAICALLY AND GRAPHICALLY. WE'LL BE FACTORING, SOLVING WITH SQUARE ROOTS, USING THE QUADRATIC FORMULA, AND GRAPHING ON OUR CALCULATORS. IF YOUR FRESHMAN IS LOOKING FOR EXTRA HELP OR REVIEW, CHECK OUT THE VIDEOS AND PRACTICE PROBLEMS ON KHAN ACADEMY.

# FROM MR. ROJAS

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Students are working on completing their Engineering Portfolio practice websites. Please refer to his website for more information on project requirements.

# FROM MS. KNAPP

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FROM MS. MADDEN  
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# FROM MS. HUBER

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Students are working in groups to develop a prototype pair of shoes to meet a specific clients needs. This project reviews the initial stages of the engineering design process and reinforces the concept of collaboration. The culmination of the project will be group presentations.

STUDENTS ARE PROGRESSING THROUGH THEIR FIRST UNIT OF SOPHOMORE AIM3 WHICH IS GEOMETRIC PROOFS.

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# **FROM MR. EVANS AND MRS. OCP**

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**AS WE ENTER THE LAST 3 WEEKS OF THE SEMESTER, ACADEMY JUNIORS IN CHEMISTRY WILL BE FINISHING EXPLORING THE PROPERTIES OF METALS, NONMETALS, AND SEMIMETALS. WE DID OUR LAST SUMMATIVE LAB (FOR 1ST SEMESTER) REGARDING THESE PROPERTIES BEFORE THANKSGIVING. AT THE END OF THE FIRST WEEK BACK FROM THE THANKSGIVING BREAK, WE WILL HAVE A SUMMATIVE ASSESSMENT OVER THE PATTERNS AND PROPERTIES OF ELEMENTS. WE WILL THEN START DIVING INTO THE TYPES OF BONDS ELEMENTS MAKE BASED ON THEIR PROPERTIES. THERE WILL BE A SUMMATIVE ASSESSMENT OVER THIS SHORTER UNIT BEFORE WINTER BREAK.**

**Are you or a company  
interested in helping our  
senior projects come to life?**

**Senior groups are looking for help  
with....**

- 1. Mentorship**
- 2. Materials Donations**
- 3. Monetary Donations**

**You can browse projects on our website to see  
where you may be able to help out. We are a  
501c3 non profit organization.**

**If you have an idea on how to help reach out to  
[philipchurch@u-46.org](mailto:philipchurch@u-46.org) to be connected with a  
team.**

# **SAC - STUDENT ACADEMIC COUNCIL**

**THIS ELECTED GROUP OF STUDENTS SERVES TO ORGANIZE A VARIETY OF ACADEMY SCHOLASTIC EVENTS INCLUDING OUR UPCOMING TEAM BUILDING DAY. WE ARE PROUD TO ANNOUNCE THE BOARD FOR THE 2024 ACADEMY SAC!**

**PRESIDENT: JASMAN DHILLON**

**VICE PRESIDENT: SIMRA SIDDIQUI**

**SECRETARY: NEDA BAZYS**

**TREASURER: BEVERLY YU**

**HISTORIAN: JAIVER SINGH**

## **Looking forward:**

U46 has adopted a slightly adjusted grading scale which brings back weights for work done to improve mastery.

***KEEP IN MIND THAT THIS MEANS STUDENTS HAVE A SMALLER WINDOW OF TIME TO TAKE ASSESSMENTS A SECOND TIME! THIS IS BECOMING REALITY FOR STUDENTS AS WE END THE FIRST SEMESTER!***

Beginning in SY24 -25, Reported grades will be a combination of a student's demonstration of master through summative, formative, and intentional practice work Final grades posted to a report card will be calculated with the following weights:

70% - Summative Assessment Scores

20% - Formative Assessment Scores

10% - Intentional Practice Scores

# Building Goal #3: Creating Connections!

JOIN THE CHICAGO ASSOCIATION OF STUDENT ENGINEERS!

CASE is a rolling-admissions organization for motivated high school students interested in engineering and STEM. We currently have more than 120 members from selective enrollment, public, and private schools. Our alumni have gone to reputable academic institutions including Caltech, Cornell, and Rice University.

Members gain access to monthly Zoom discussions with engineers, in-person tours and networking events, professional development resources, and more! There is no membership or admissions fee to be a part of CASE.

We provide:

- Extensive Engineer Network: Explore a vast network of engineers that can enhance your understanding of the STEM world!
- Engaging Webinars: Access monthly Zoom webinars with seasoned professional engineers offering insight into their discipline and receive valuable career advice.
- In-Person Events: Connect face-to-face with both professional engineers and like-minded CASE members.
- Professional Development: Partake in resume building, interview prep, college readiness planning, and more!

A sneak-peek of upcoming events:

- Learn to code from a Northwestern graduate
- Take an exclusive look at a TyLin construction site
- Meet corporate recruiters and learn LinkedIn tips from the top

Special note: This year, much of our Executive Board is graduating, and we're looking for motivated younger students who are interested in continuing CASE. New members will be considered as well!

Apply to CASE (reviewed every month): <https://forms.gle/kavz3VdmWYbgLuQR6>

There is no membership or admissions fee!

Our linktree: <https://linktr.ee/case.engineers>

Have a question? Please reach out at [caseseniorboard@gmail.com](mailto:caseseniorboard@gmail.com)!



StudentScholarships.org  
4410 Massachusetts Ave NW #250  
Washington, DC, 20016

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## Attn: Science & Math Teachers

Below you will find a list of 12 Scholarship Programs that students in Grades 9-12 who are strong in Math & Science should consider applying for. More than 740 Scholarships will be distributed through these 12 Scholarship Programs.

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# SCHOLARSHIP NEWSLETTER

DEADLINES BETWEEN: December 16th & March 31st, 2025

### 1) Science Ambassador Scholarship - \$20,000 – 5 Awards (Deadline: December 16, 2024)

Eligibility: Grade 12

Overview: An annual scholarship funded by Cards Against Humanity for undergraduate women and non-binary students in science, technology, engineering, or math.

Submission: Film a three-minute educational video of yourself explaining a STEM topic you're passionate about.

More Information:

<https://studentscholarships.org/scholarship/14669/science-ambassador-scholarship>

### 2) AIAA Lockheed Martin Marillyn Hewson Scholarship - \$10,000 – 2 Awards (Deadline: Dec. 31, 2024)

Eligibility: Grade 12

Overview: The AIAA Lockheed Martin Marillyn Hewson Scholarship was created to encourage young women to study aerospace engineering and pursue a career in the aerospace defense industry.

Submission: Submit a 500-1,000 word essay specifying your career objectives and the academic program you want to follow to achieve them.

More Information:

<https://studentscholarships.org/scholarship/25703/aiaa-lockheed-martin-marillyn-hewson-scholarship>

### 3) Mindscape Big Picture Scholarship - \$10,000 – 2 Awards (Deadline: December 31, 2024)

Eligibility: Grade 12

Overview: The Mindscape Big Picture Scholarship was created to provide financial support for those who are looking to pursue higher education to understand how the world works.

Submission: Explain why you think it's important that we work to better understand the nature of our universe, and what ideas and concepts you hope to employ in order to do so.

More Information:

<https://studentscholarships.org/scholarship/20662/mindscape-big-picture-scholarship>

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