

The **STEM** at Galena High School Academy

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SCIENCE * TECHNOLOGY * ENGINEERING * MATHEMATICS

The STEM Academy at Galena High School

Encompasses fields of study in science, technology, engineering, and mathematics. Students are enrolled in a four-year course sequence that follows a nationally-recognized curriculum (*Project Lead The Way*). This provides them with challenging activity, project, problem-based learning with meaningful assessments.



Because the STEM Academy's Course of Study closely follows an Honors Diploma track,

students who complete the program also have the opportunity to earn accelerated admission for college programs. In addition, partnerships between the school and local industry will provide students with internships and other opportunities for experience.



Enter a world of **imagination, innovation and learning**

A path for **success** and **unforgettable memories!**



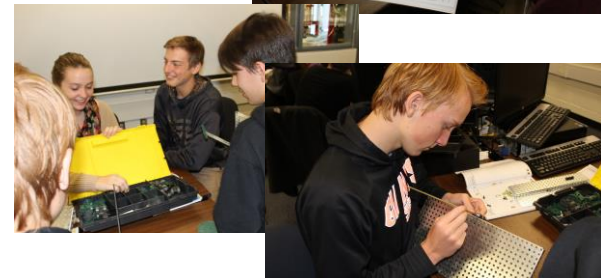
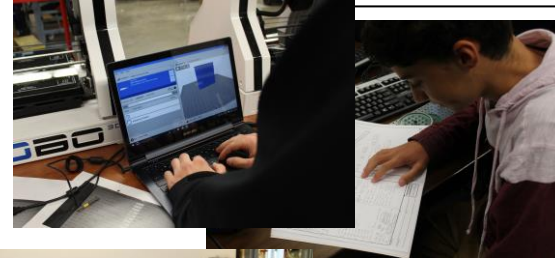
Preparing Students for the Global Economy



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A Future You Can Count On!

The curriculum sequence includes two foundation courses during the first two years, followed by a core specialization course during the third year. The STEM Academy at Galena High School has chosen **Aerospace Engineering and Environmental Sustainability** as its third year offerings, whereby the student will select one of the two focused areas. The Academy concludes with a 4th- year course whereby students work in teams to design an and develop an original solution to a valid open-ended technical problem by applying the engineering design process.



GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	PLTW ENGINEERING	*REQUIREMENTS	*ELECTIVES
9 TH	HONORS ENGLISH 1-2 OR English 1-2	FORMAL GEOMETRY (ALGEBRA 1) OR ALGEBRA 2 STEM	BIOLOGY 1-2 (H) OR CHEMISTRY	PE/HEALTH*	INTRODUCTION TO ENGINEERING DESIGN (IED)	WORLD LANGUAGE/PE	ELECTIVES/CORE CLASSES/ENRICHMENT CLASSES
10 TH	HONORS ENGLISH 3-4 OR ENGLISH 3-4	ALGEBRA 2 STEM, (GEOMETRY &ALGEBRA 2 STEM), OR TRIG/PRE-CALC	CHEMISTRY 1-2 (H) OR UPPER-LEVEL SCIENCE	AP EUROPEAN HISTORY OR AP HUMAN GEOGRAPHY OR WORLD HISTORY	PRICIPLES OF ENGINEERING (POE)	WORLD LANGUAGE/PE	ELECTIVES/CORE CLASSES/ENRICHMENT CLASSES
11 TH	AP ENGLISH 5-6 OR ENGLISH 5-6	TRIG/PRE-CALC OR AP CALCULUS OR AP STATISTICS	UPPER-LEVEL SCIENCE	AP US HISTORY OR US HISTORY	AEROSPACE ENGINEERING (AE) (YEAR-LONG COURSE) OR ENVIORNENTAL SUSTAINABILITY (ES) (YEAR-LONG COURSE)	WORLD LANGUAGE/PE	ELECTIVES/CORE CLASSES/ENRICHMENT CLASSES
12 TH	AP ENGLISH 7-8 OR ENGLISH 7-8	AP CALCULUS OR AP STATISTICS OR TMCC MATH	UPPER-LEVEL SCIENCE	AP GOVERNMENT OR AMERICAN GOVERNMENT OR TMCC	ENGINEERING DESIGN AND DEVELOPMENT (EDD)	WORLD LANGUAGE/PE	ELECTIVES/CORE CLASSES/ENRICHMENT CLASSES

Honors Diploma – 24 credits, 3.4 Weighted GPA, 8 Honors Level Courses, 2 Years World Language

*See counselor for specifics regarding REQUIREMENTS and ELECTIVES columns

*If requirements for Honors Diploma have been met through alternative means students can take other electives

Upper Level Science Classes Include:

-Microbiology -AP Physics C -Anatomy Physiology -AP Chemistry -AP Physics 1 -AP Environmental -AP Biology