Riverview Opportunity Center

BULLITT ADVANCED MATH + SCIENCE PROGRAM

An Accelerated STEM + College-Credit Program



Bullitt Advanced Math + Science

WHO WE ARE

The Bullitt Advanced Math and Science Program provides a rigorous combination of online content, traditional classroom instruction, and authentic and exciting hands-on scientific inquiry experiences through Bernheim Arboretum and Research Forest, General Electric, and the Kentucky Science Center amongst others. Additionally, through a partnership with JCTC Southwest, students have the unique opportunity to attain their diploma and the equivalent of an associates degree during their junior and senior years of high school.

In short: yes, we are nerds, and proud of it.

At BAMS, our foci and objectives are driven by the vision and mission statements crafted by the instructors of the program. The first is the clear and long-term desired change that we hope to effect through our work with our students in both them and the community we serve.

"For every student, an exceptional education; for every person, a better community."

- BAMS Vision Statement

Our mission statement, built on the pillars of inquiry experiences, a rigorous and relevant curriculum, and educational outreach, puts this vision into focus by giving us concrete goals to meet each year.

We seek to help the gifted students of Bullitt County reach their full potential as learners and as people through inquiry experiences, a rigorous & relevant curriculum, and educational outreach.

- BAMS Mission Statement

INQUIRY + RESEARCH

BERNHEIM ARBORETUM + RESEARCH FOREST

Our partnership with Bernheim is one of the cornerstone collaborations for our students. It has been a source of authentic inquiry for our students and active research. It gives our students access to unique opportunities to do real-world scientific research and answer questions that no one has yet answered with respect to the ecosystem in and surrounding Bernheim Forest.

Each year, teams of students are assigned specific research or product-based projects depending on their interests.

These projects include the following:

- the relationship between water quality and algal bloom growth
- the effect of controlled burns on soil quality in the prairie regions of Bernheim
- assessing the effect of natural pesticides on the health of bee populations within select hives in the forest



- integrating mobile applications & Google Maps technology to enhance the experience of visitors to Bernheim
- a phenology study to determine the timing of seasonal changes and how they are affected by changes in climate.



GENERAL ELECTRIC

Our strong STEM focus is made strong through our partnership with General Electric. With the support of their engineering mentors and the implementation of their systematic engineering process, our students have been given the opportunity to engage in real-world engineering methods for problem-solving. We incorporate both fall and winter extended engineering projects into our curriculum to give BAMS students an even more authentic STEM experience.

Our students' projects over the past several years have been broad ranging and exciting including:

- a mass-powered vehicle
- a human-sized watercraft
- a trebuchet
- ability- & age-inclusive park furniture



OTHER ACTIVITIES

ROC BETA

In addition to the numerous scientific and engineering endeavors BAMS students engage in, we also have a very active Beta Club that gives back to its community through food and clothing drives and volunteers in numerous ways within Bullitt County. They also show school spirit by marching in the BCHS Homecoming Parade and competing in multiple categories at the state convention each year.

CLUBS, CELEBRATIONS, + SO MUCH MORE

We don't stop at Beta, we have other groups, too, including a yearbook team, a running club, and a Dungeons & Dragons club. Oh, and of course we have many other celebrations throughout the year including a fall ball, a spring formal, a white elephant gift exchange, and numerous after-school get-togethers! We guarantee your home high school can't offer all of this.

ADDITIONAL BENEFITS

A Close, Creative, & Collaborative Community

Because of the program design, you have the opportunity to be part of a small, close-knit group of 48 students who will become lifelong friends & colleagues. Together you will have special shared experiences that aren't afforded to other students in traditional settings.

A College Scholarship & Degree

Along with a unique, rigorous, & stimulating education, BAMS students receive a scholarship from the Bullitt County Public School System to attend the southwest campus of Jefferson Community and Technical College practically free of charge during their junior and senior years of high school. The only costs for you are books & fees. That's over a \$10,000 value! Oh, and an associate degree! Who says it doesn't pay to be smart?





IS THIS THE PROGRAM FOR YOU?

Preliminary Identifiers

Our initial selection of potential candidates is determined using counselor and teacher recommendations.

The X-factors

We realize there are other equally important factors to be found in a student that aren't contained within the results of a test. Some of these factors include:

- ability to be self-starting, goal-oriented, & organized
- a display of emotional & academic maturity
- a willingness to take academic risks
- being comfortable with collaboration, cooperation, & compromise

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HOW TO APPLY

- Online
 - http://robertdavidson9.wixsite.com/ bams/admissions
- In Person
 - Please see your middle school counselor



Online

To apply online, please visit our website

http://robertdavidson9.wixsite.com/bams/admissions

There, you will find information regarding our open house, an application link, a teacher recommendation link, and opportunities to come and shadow our students in class.

In Person

To apply in person, please see your middle school counselor who can help you get all the information you need.

We look forward to hearing from you!