



## Other Information

- Bio-Med Science Academy is open to any student in Ohio. Its focus is on recruiting students primarily from rural communities in Portage and surrounding counties. Graduating class sizes are targeted at 100. If the number of applications received exceeds the class size maximum, students will be selected through a blind lottery system.
- The Academy is a public school. There is no charge to attend, however there are course and technology fees like a traditional public school. Students will also be required to follow a strict dress code (khakis and polo shirts).
- Although the Academy does not provide daily transportation to and from school, other options are available. Most students are able to receive transportation or payment in lieu from their school district of residence if they meet certain qualifications. PARTA also offers several service options within Portage County.
- The Academy is a year-round school with a trimester schedule that is different from most public schools.

Student Applications will be available in January. Please visit [www.biomedscienceacademy.org](http://www.biomedscienceacademy.org) for more information or to sign up for our e-mail contact list.

## Connect With Us



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4209 St. Rt. 44, PO Box 95  
Rootstown, Ohio 44272



A year-round public **STEM+M** high school  
located on the campus of  
Northeast Ohio Medical University.



Bio-Med Science Academy creates an innovative and progressive learning environment that cultivates academic excellence and rigor in the science, technology, engineering, mathematics and medicine (STEM+M) disciplines, while nurturing creativity, inventiveness and community in its students. The Academy seeks to provide opportunities to high school students from rural communities and is an integral part of the Northeast Ohio Medical University campus.

[biomedscienceacademy.org](http://biomedscienceacademy.org)

*STEM schools have an overarching goal to help students develop academic behaviors related to inquiry learning, problem solving, collaboration and creative thinking that will then help them create research based solutions to real world problems.*

## Why choose Bio-Med Science Academy?

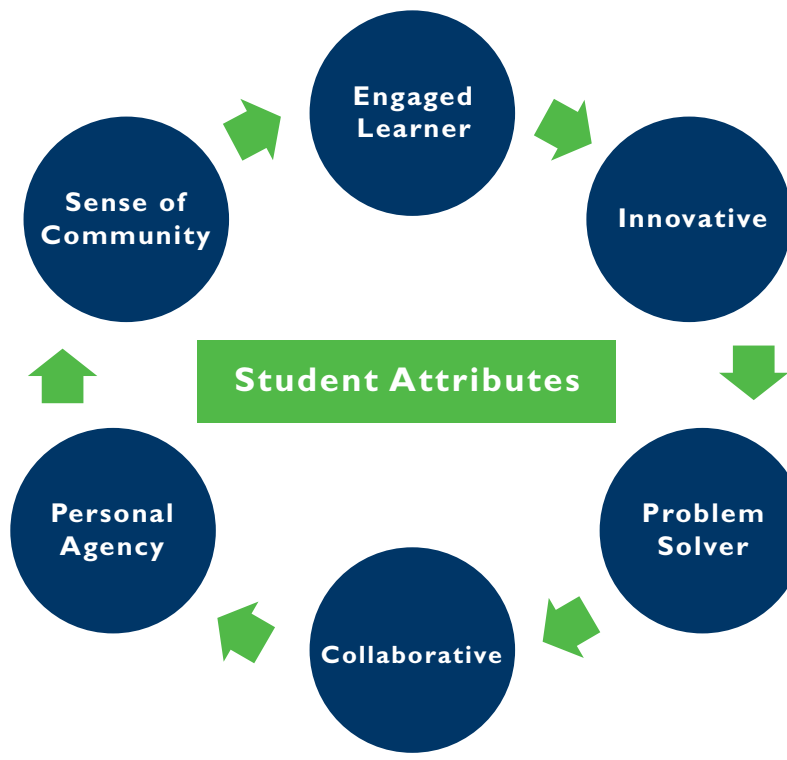
The learning experience for a student at the Academy is like nothing in place at a traditional high school. The school day is blocked, the school year is extended and the curriculum is entirely student-centered and problem-based.

The courses of study are integrated, interdisciplinary, flexible and problem-based. The material is rigorous, yet stimulating and exciting. Students tackle real-world problems and are graded based on their understanding of the standards and mastery of the concepts and skills. Course themes are based on current trends in science and medicine as well as the research and education being conducted at Northeast Ohio Medical University. The Academy has also developed educational experiences around community health and the environment in both urban and rural communities.

The Academy is located on the campus of Northeast Ohio Medical University in Rootstown, Ohio, allowing teachers and students to take advantage of sophisticated research laboratories and guest lecturers from an array of scientific researchers, professors and medical professionals. In addition to the Academy's teachers, faculty from local colleges and universities also serve as project advisors, give seminars, and provide experiences for students in their research laboratories.

The school utilizes a unique virtual classroom environment (VLX) to provide subject delivery and academic support. Through this system, professionals, teachers and students from anywhere in the world can collaborate with Academy teachers and students on joint projects during or after the school day throughout the year.

Bio-Med Science Academy is not a school just for "gifted children." It's a school for passionate students with a keen interest in science, technology, engineering, math or medicine. It focuses on individualized STEM+M learning. Students progress at their own rate, and bring their own unique strengths to the table. They are empowered and motivated to explore their interests, develop their passions and unleash their potential in those core areas.

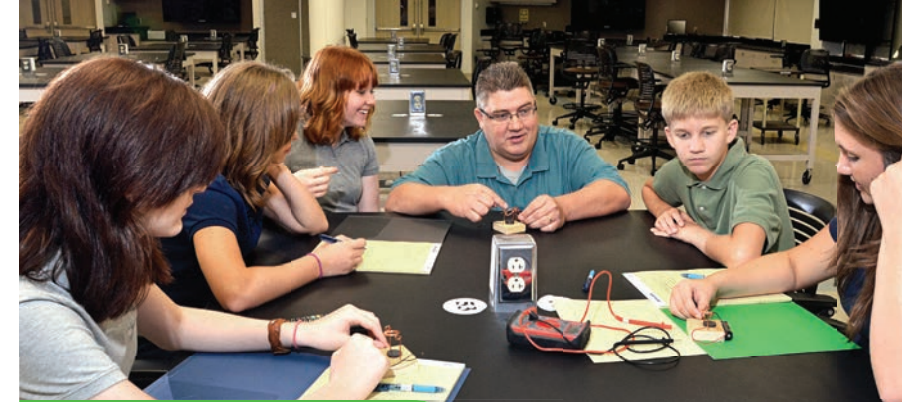


## Course Outlook

The Academy's team of educators support a concentrated academic rigor that prepares students to create and initiate innovative, essential questions, then develop novel solutions in various fields of study. Courses are designed to provide students with opportunities for dual-credit so that students may earn college credits prior to high school graduation.

In addition to Ohio Department of Education prescribed courses for graduation, Academy students are required to take:

- Engineering and Design
- Algebra II
- Chemistry
- Anatomy and Physiology
- Algebra and Calculus for Trigonometry
- Biomedical Sciences
- Analytical Geometry and Calculus
- Physics
- Statistics and Probability
- Scientific Design
- Two years of Biotechnical Engineering
- Two years of Innovation and Entrepreneurship
- Four years of Mandarin Chinese



## How is Bio-Med Science Academy different from my local high school?

The Academy's curriculum is problem/project-based and taught by teams of teachers who work to integrate their subject areas around a central theme. Each term has a theme around which the learning in various subject areas occurs. The themes include timely topics that reflect current philosophies and approaches in medical fields and associated STEM fields of study.

Examples include:

- Healthy Bodies/Health and Wellness
- Water and its Impact on People, Culture and the Economy
- The Brain
- The Future of Energy
- And much more!

Like in the world of work, students are accountable for their outcomes and products in the form of term projects at the end of each course of thematic study, in addition to regular coursework. Students are expected to understand the community context for projects and problems and incorporate community-related issues into proposed research projects and protocols as well as into solutions to problems. As part of this understanding, students will be expected to perform a certain number of hours of service in the community.

Professionals from businesses, universities and health care organizations provide special seminars and lectures during the year. Students also go on field trips to learn more about the theme of the term.

Students are expected to present their work at state conferences and participate in competitions and events such as the Junior Science and Humanities Symposia, the Imagine Cup, the American Mathematics Competition, Siemens Competition and more.



### Academy Partners:

