From the heart of Kansas, our dedicated faculty and supportive staff equip students in The Kansas Academy of Mathematics & Science (KAMS) at Fort Hays State University (FHSU) to reach higher and seize the future. KAMS offers an unparalleled academic experience for gifted and talented high school students. Students in the Academy are challenged to immerse themselves in a full college experience by living and learning alongside like-minded peers on the innovative and friendly FHSU campus.

Established by legislative action from the Kansas Senate in 2006, KAMS is designed to promote science, technology, engineering, and mathematics (STEM) education. Students selected to attend KAMS will receive over 60 hours of college credit, a diploma from their sending school, hands-on research opportunities, leadership development, civic engagement, and co-curricular activities to develop the whole student.

Join a community of remarkable students, reach higher, and get a head start on college and your future at KAMS. Why wait? Your time is now!
Start your journey with us at FHSU.edu/KAMS.
KAMS will transform your interests into abilities and prepare you to excel wherever the future takes you. Located on the beautiful and historic FHSU campus, you will experience award winning academics, push the limits of your abilities in state-of-the-art facilities, and enjoy small classes taught by Ph.D. faculty. Students in KAMS are integrated directly into the academic community at FHSU and take classes alongside traditional college students.
FOR YOUR SUCCESS

CURRICULUM

JUNIOR YEAR
Fall Semester
• Pre-Calculus
• Principles of Biology and Lab
• English Composition I
• U.S. History before 1877
• Research Seminar

Spring Semester
• Calculus I
• Chemistry I and lab
• English Composition II
• U.S. History after 1877
• Research and Writing

SENIOR YEAR
Fall Semester
• Calculus II
• Physics for Scientists and Engineers I
• STM elective
• Departmental research and writing

Spring Semester
• American Government
• Computer science elective
• Social studies elective
• STM elective
• Elective course of interest
• Departmental research and writing

* This is a sample KAMS class schedule. Depending on the student’s area(s) of interest, they will have the option to take other FHSU courses, as needed. Classes will be articulated back to the student’s sending high school for graduation requirements. Students can earn up to 68 hours of college credit and have the opportunity to earn an Associate of General Science degree from FHSU.
COURSE OFFERINGS

AGRICULTURE
• Animal science
• Agronomic crop sciences and lab

APPLIED TECHNOLOGY
• Introduction to computer aided drafting
• Introduction to STEM applications

BIOLOGY
• Botany
• Zoology
• Microbiology
• General microbiology

CHEMISTRY
• University chemistry II and lab
• Organic chemistry I and lab
• Organic chemistry II and lab
• Chemical analysis

COMPUTER SCIENCE
• Computer science II
• Foundations of computing
• Computer operating systems
• Systems architecture
• Java programming

GEOSCIENCE
• Introduction to geology
• Historical geology
• Elements of physical geology
• Climatology
• Elementary meteorology
• Introduction to GIS
• Intermediate GIS
• Advanced GIS
• World geography

MATHEMATICS
• Elements of statistics
• Calculus III
• Advanced calculus
• Linear algebra
• Differential equations
• Discrete structure

PHYSICS
• Physics for scientists and engineers II and lab
• Analog and digital electronics
• Modern Physics
During my junior year in KAMS, I decided to enroll in a cancer cell research class because I have a passion for the medical field. In the course, I learned so much more than just proper lab etiquette. We were taught how to work as a team and that trial and error is a large part of conducting research.

MICAYLA GUITERREZ
WICHITA, KAN., KAMS CLASS OF 2020
We know that some of the most valuable lessons aren’t taught through lectures — so all KAMS students are asked to complete a hands-on research project with a Ph.D. faculty member from FHSU. The opportunities are endless to provide you with a unique learning experience that will set you apart from other traditional high school graduates. Whether it be programming a NAO robot, studying cancer cells, or traveling on a research trip, you are encouraged to use your creativity to explore the world and get involved.

Sample research topics from former students

Mobile device application development
NAO robot programming
Solar panels
Sea surface temperatures
Shark attacks
Solar flares and solar radiation
Exoplanets
Climate change
Air pollution
Animal behavior
Earthquake frequency
Rocket production and launches
Drones
FOR AN ADVENTURE

YOU DON’T WANT JUST ANY HIGH SCHOOL EXPERIENCE. You want an educational opportunity as unique as you are—an adventure that challenges you to push the limits of your ability and to grow alongside likeminded exceptional peers who are driven to excel.

Leaving behind the traditional high school experience isn’t always easy. Brady Stephenson, KAMS Class of 2019, knows first-hand how tough the decision can be, especially being a highly involved, three-sport athlete at a small-town high school.

Ultimately, Brady knew that his academics were going to put his career goals within reach.
In the end, I knew academics were going to get me farther than sports. Taking a college course load during both my junior and senior years of high school proved to be both challenging and beneficial to me. Some of my favorite things about KAMS are the immense research opportunities available to students and the life-long relationships I was able to build with faculty and staff.”
FOR A STRONG FOUNDATION

KAMS students turn challenges into opportunities and put ideas into action. Immersive, hands-on learning provides an extraordinary opportunity to experience research and the world in a new way. Experience in the classroom will open the door to building a network you can count on and lay the foundation for your future.

Jorja Elliott, KAMS Class of 2019, is the textbook example of a hardworking academy student. During her two years in KAMS, Jorja presented the research she conducted with the FHSU Biological Sciences department at two professional meetings and a biomedical symposium. During her senior year in KAMS, Jorja was inducted into the FHSU Mortar Board Golden Chapter, selected as a bronze recipient at the FHSU Residential Life End of Year Awards ceremony, and gained admittance to the FHSU Honors College.
Positive experiences within KAMS are not difficult to come by. One of the most powerful, however, is the exposure to departmental research. Each KAMS student is immersed into research unique to their particular interests and aspirations. Not only are they exposed to intense, hands-on learning, but many students will present this research at conferences across the nation, developing necessary skills to convey their knowledge to the public. The scientists of future generations are built through this program and will excel in all chose fields, thanks to the research exposure provided by the faculty of FHSU.”
FOR YOUR EDUCATION

WE KNOW IT TAKES HARD WORK AND COMMITMENT TO ACHIEVE ACADEMIC SUCCESS. But with our award-winning faculty ready to guide you through our innovative, world-ready programs, that success is closer than you’ve ever imagined.

LEARN MORE AT FHSU.EDU
97% completion rate

32 composite average incoming sophomore ACT

26 composite average outgoing senior ACT

40 new student spots available each year

$2.8 million approximate total scholarship dollars received by graduating class

17 average college hours taken per semester

Campus Amenities
Student Wellness Center, Athletic Events, Tutoring Services, Mental Health Counseling, Health Services
You will make time-defying friendships, share laughs and late-night study sessions, and have a genuine college experience in the uniquely dedicated Custer Hall on the FHSU campus. You will live alongside other high-school aged students who are a part of the Academy of Mathematics and Science (AMS), which hosts high school students from other states and countries. Custer Hall will become your home away from home where you live and learn in company with gifted students just like you.

CUSTER HALL PERKS

+ Special security measures, including locked entrances and exits, sign in/out system, a professional staff member on-site full-time, building and floor curfews and curfew checks, and wings separated by gender.
+ Free laundry facilities and a Laundry Alert system so you know when your clothes are ready.
+ Free cable and WIFI
+ Community spaces, including a large study area, kitchenettes, a game room, and a media room.
FOR A LEGACY THAT LASTS

IMMERSE YOURSELF IN CAMPUS LIFE AND DISCOVER A COMMUNITY THAT SHARES YOUR PASSIONS. Because life and learning happen both inside and outside of the classroom. We’re proud to offer more than 120 student organizations that promote your growth wherever you care about it most, from the Creative Arts Society to Rocketry (and just about everything in between).
My favorite thing about KAMS was the culture it provided. The students in the program challenge and support each other academically, while the university provides great social benefits, like clubs and organizations, to be involved in. While your academics are important, be sure to take the time to have fun, too! This will offer an opportunity for you to enjoy the entire experience of the academy.”

EMILY THORNTON
LAWRENCE, KAN.
KAMS CLASS OF 2018
UNIVERSITY OF WASHINGTON
CLASS OF 2020
YOU HAVE UNIQUE EDUCATIONAL AND CAREER GOALS AND WE HAVE THE RESOURCES AND OPPORTUNITY TO HELP YOU REACH THEM. Just as our alumni of the past have experienced, KAMS can be used as a stepping stone to get you to your dream school or program. Whether you have aspirations to be an attorney, engineer, or even an astronaut, KAMS can differentiate you from your peers and help you succeed in all the ways you have been imagining.

By the time Elizabeth Lewis, KAMS Class of ‘14, had reached her sophomore year in high school, she knew she was destined for more than what the traditional high school experience could provide, and KAMS offered all of the answers to her educational needs. As a student who had aspirations to become an attorney from a young age, completing the Academy has proved to be instrumental in her success as a current juris doctorate student at New York University (NYU).

“While at KAMS, I learned effective study techniques, how to balance multiple responsibilities at once, and how to build a support system for when things are difficult. I even had the opportunity to explore, much earlier than most of my peers, different academic areas I was interested in, from physics to psychology to creative writing. My time at KAMS gave me the flexibility during my undergraduate years to really invest in the coursework I was passionate about and the ability to be able to plan for graduate school and beyond.”

Not only did KAMS prepare Elizabeth for the rigorous coursework required in law school, it also provided her with a community of like-minded students who were just as focused and determined as she was to succeed.
ELIZABETH LEWIS
LAWRENCE, KAN.,
KAMS CLASS OF 2014
UNIVERSITY OF KANSAS
CLASS OF 2016
NEW YORK UNIVERSITY
SCHOOL OF LAW
CLASS OF 2020

“
The best part of KAMS, to me, was the remarkable sense of community. We all knew how to look out for one another and that made being far away from home so much easier. I would wholeheartedly recommend KAMS to anyone who wants to excel in their education, who knows they want to invest in a higher education path, and is willing to be responsible and put in the work to succeed. This program will advance your higher education goals, regardless of the field you end up in, and has so much to offer beyond its lessons in the classroom.”
FREE TUITION
Students who attend KAMS from a public school have their tuition and fees (up to 68 credit hours) covered by the state of Kansas. Books, supplies, and a computer are also provided for public school students.

ROOM & BOARD
Room & board charges are estimated to be about $8,200 per year and are the student/family's responsibility. Students will have a meal plan that allows them to eat at the McMindes Dining Facility and dining dollars to use at other on campus dining options such as the Union Marketplace or Starbucks.

COST SAVINGS
Attending KAMS for two years can save up to *$17,000 in tuition and fees for students at a standard public college by reducing the time needed to complete a bachelor's degree.

*Based on College Board published tuition fees for 2018

FINANCIAL HELP
As high school students, Academy students cannot qualify for federal financial aid. KAMS provides a few options for domestic students to assist with the financial obligations of the program:

+ KAMS Scholarship
Need-based, non-renewable scholarship available to incoming and returning KAMS students. To apply, please visit www.fhsu.edu/kams.
Deadline: May 1 of each year.

+ Peter Werth KAMS Scholarship
Non-renewable FHSU scholarship available to incoming and returning KAMS students. Recipients should have the intention to continue their education within the Werth College of Science, Technology, and Mathematics at FHSU.
Deadline: February 15 of each year.

"KAMS offers many amazing opportunities for students. I got to travel to London for research and met a lot of students with my very same passion for education. Take a chance and attend KAMS; it was the best opportunity I have been offered so far in life!"

ANNIE HINDS
GODDARD, KAN., KAMS CLASS OF 2018, FHSU CLASS OF 2020
HAYS, KANSAS

Boston University (Boston, MA)
California Institute of Technology (Pasadena, CA)
Carnegie Mellon University (Pittsburgh, PA)
Case Western Reserve University
(Cleveland, OH)
Colorado School of Mines (Golden, CO)
Cooper Union University (Manhattan, NY)
Fort Hays State University (Hays, KS)
Georgia Institute of Technology (Atlanta, GA)
Grinnell College (Grinnell, IA)
Johns Hopkins University (Baltimore, MD)
Kansas State University (Manhattan, KS)
King’s College (London, UK)
Lewis and Clark College (Portland, OR)
Milwaukee School of Engineering (Milwaukee, WI)
Missouri S&T University (Rolla, MO)
Northeastern University (Boston, MA)
Ohio State University (Columbus, OH)
Oklahoma State University (Stillwater, OK)
Penn State University (State College, PA)
Purdue University (West Lafayette, IN)
Rice University (Houston, TX)
Rochester Institute of Technology (Rochester, NY)

Rutgers University (New Jersey, NJ)
Stevens Institute of Technology (Hoboken, NJ)
State University of New York (Buffalo, NY)
University of California, L.A.,
San Diego, Santa Cruz, Davis
University of Chicago (Chicago, IL)
University of Connecticut (Storrs, CT)
University of Detroit Mercy (Detroit, MI)
University of Illinois-Urbana, Champaign
University of Iowa (Iowa City, IA)
University of Kansas (Lawrence, KS)
KU School of Med (Kansas City, KS)
University of Michigan (Ann Arbor, MI)
University of Minnesota (Saint Paul, MN)
University of Pennsylvania (Philadelphia, PA)
University of Texas-Austin
University of Texas-A&M (College Station, TX)
University of Virginia (Charlottesville, VA)
University of Washington-Seattle
University of Wisconsin (Madison, WI)
Washburn University (Topeka, KS)
Washington University (St. Louis, MO)
Wichita State University (Wichita, KS)

This list includes colleges and universities KAMS alumni have been admitted to within the last three years and/or institutions KAMS alumni have been admitted to that have been featured on the US News and World Report “Top 25 Best Colleges List.”
ADMISSION TO KAMS IS EVALUATED WITH A HOLISTIC VIEW. We are looking for the best and brightest students who are academically talented, mature, motivated, and are ready for a challenge. To view and download a copy of the application, visit www.fhsu.edu/kams.
KAMS CHECKLIST

ADMISSION REQUIREMENTS
- Must have completed 10th grade of high school.
- Receive a score of 23 ACT composite or 1150 SAT composite
- Successfully complete high school algebra II and geometry

ADDITIONAL ADMISSION CRITERIA REVIEWED
- Cumulative GPA
- Grades in relevant coursework
- ACT/SAT subsection scores
- Class rank
- Student essay
- Teacher, counselor, and mentor evaluations
- Leadership qualities and involvement
- Maturity and motivation

PRIORITY DEADLINE
The priority deadline for sophomore applications is December 15th of each year. We offer a rolling application deadline thereafter until all 40 new student spots are filled. We also offer an early admission opportunity for high school freshmen.

HOW TO PREPARE
- Take an ACT or SAT exam in the fall of your sophomore year or earlier.
- Try to complete the following classes in high school to better prepare for the KAMS curriculum:
  - Biology
  - Chemistry
  - Physics
  - Pre-Calculus
  - Trigonometry
- Complete your high school’s specific credits for graduation your freshman or sophomore years, such as physical education and/or foreign language classes.

VISIT CAMPUS
The best way to discover if KAMS is the right fit for you is to come see it for yourself. The Academy hosts a Preview Day every fall that allows students and families to experience our campus firsthand, meet with staff and current students, and have all of your biggest questions answered by the experts. Personalized visits are also offered any day of the week. Sign up for Preview Day or schedule your personalized visit by calling the KAMS Office.

FOR YOU. FOR YOUR FUTURE.
FORT HAYS STATE UNIVERSITY.
HERE TO HELP YOU – KAMS/AMS STAFF

**Interim Director**
Will Burns
wlburns@fhsu.edu
785-628-4709

**Assistant Director**
Sherri Matlock
sdmatlock@fhsu.edu
785-628-4573

**Assistant Director**
Jodi Hill
jchill@fhsu.edu
785-628-5973

**Financial Administrator**
Ann Noble
amnoble@fhsu.edu
785-628-5449

**Coordinator for Marketing & Recruitment**
Abby Anderson
aeanderson2@fhsu.edu
785-628-4719

**Personal Counselor**
Amanda Brown
albrown13@fhsu.edu
785-628-4571

FORT HAYS STATE UNIVERSITY
EARLY COLLEGE PROGRAMS
CUSTER HALL 241
600 PARK STREET
HAYS, KS 67601

EARLY COLLEGE PROGRAMS OFFICE
785-628-4690
www.fhsu.edu/kams
kams@fhsu.edu

FORT HAYS STATE UNIVERSITY
KANSAS ACADEMY OF MATHEMATICS AND SCIENCE

CONTACT INFORMATION

APPLY NOW
fhsu.edu/kams