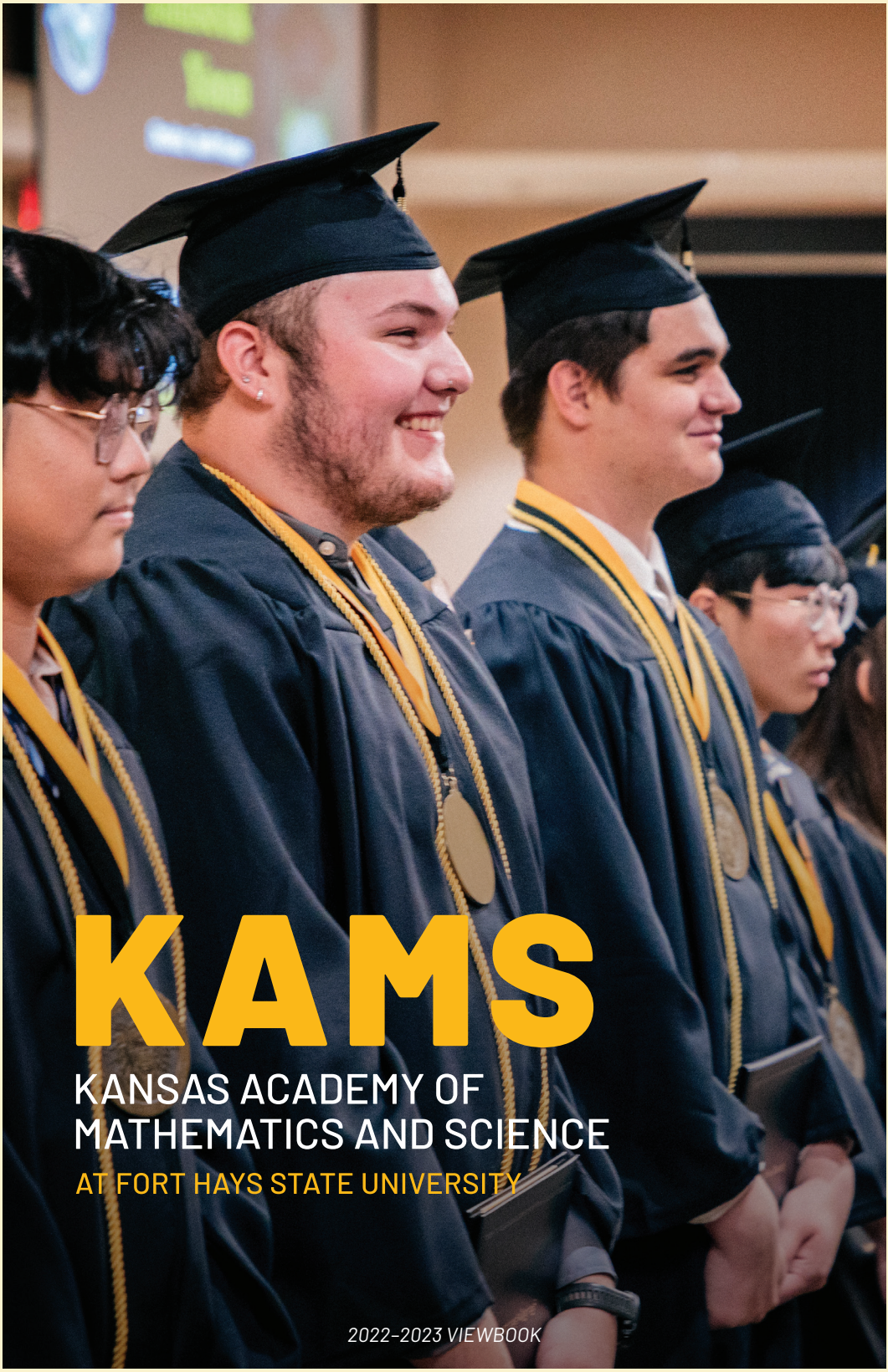


KAMS

KANSAS ACADEMY OF MATHEMATICS AND SCIENCE

AT FORT HAYS STATE UNIVERSITY

2022–2023 VIEWBOOK

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 KAMS are challenged to immerse themselves in a full college experience by living and learning alongside likeminded 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 and is intended for students to complete during the 11th and 12th grades. 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.

Why wait? Join a community of exceptional students and get a head start on college and your future at KAMS.

Start your journey with us at FHSU.edu/KAMS

SCAN CODE TO APPLY

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 skills 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.

FHSU Facts

14,104	20-25	3,807
TOTAL ENROLLMENT	*AVERAGE CLASS SIZE*	*ON-CAMPUS ENROLLMENT*

KAMS Facts

Campus Amenities: Student Wellness Center, athletic events, tutoring services, mental health counseling, health services

New student spots available each year: **40**

Average Academy enrollment per year: **80 students**

Average incoming ACT: **26 composite**

Average outgoing ACT: **32 composite**

Average time KAMS students need to complete a Bachelor's degree after program completion: **2 years**

Program completion rate: **97%**

A CURRICULUM CREATED FOR THE **EXCEPTIONAL**

Select a curriculum and academy experience, made just for you! Our curriculum pathways are designed to meet your current academic abilities and fulfill your high school graduation requirements. These individualized pathways will provide a roadmap to your future as a professional in the world of STEM and beyond.

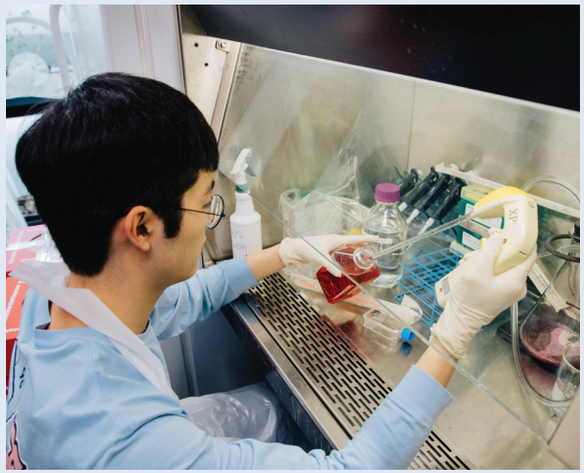
Choose from courses within FHSU's five, award-winning and innovative colleges:

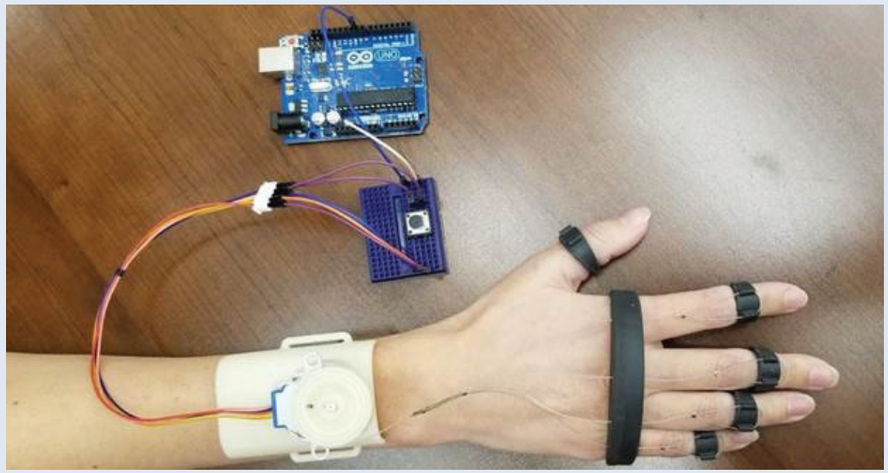
- ***Science Technology, and Mathematics***
- ***Health Professions and Behavioral Sciences***
- ***Arts, Humanities, and Social Sciences***
- ***Business & Entrepreneurship***
- ***Education***

To start building your tailormade, early college experience as a KAMS student, scan the QR code and see which curriculum pathway is best for you.

Along with countless other professional disciplines, our past KAMS graduates have experienced great success in the following areas:

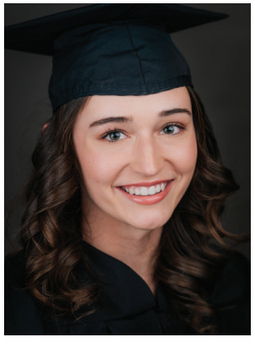
- ***Engineering***
- ***Computer Science***
- ***Mathematics***
- ***Biology***
- ***Veterinary Medicine***
- ***Chemistry***
- ***Geoscience***
- ***Physics***
- ***Agriculture***
- ***Applied Technology***
- ***Medicine***
- ***Pharmacy***
- ***Dentistry***
- ***Nursing***
- ***Psychology***
- ***Law***
- ***Political Science***
- ***History***
- ***English***
- ***Art & Design***
- ***Music***
- ***Business***
- ***Finance***
- ***Marketing***
- ***Accounting***
- ***Education***





How we get
HANDS-ON

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 opportunity to conduct this level of research at such an early age will set you apart from traditional high school graduates and provide a unique learning experience. Whether it be programming a robot, studying cancer cells, or traveling on a research trip, you are encouraged to use your creativity to explore the world and get involved.



"I conducted research with Professor Eric Deneault in the FHSU Applied Technology Department that focused on making advancements in seizure-detection technology. This program has been the opportunity to have a smooth transition between high school and college. To future early college students, don't be afraid of what is to come. You will grow not just in your academics, but you will be able to grow as a person. If you ever have fear, just breathe and know that it will be okay in the end!"

PAIGE HOLOPIREK *(La Crosse, KS), KAMS Class of 2022*

"The research experiences and challenges of KAMS gave me the confidence to know that I would be successful for the rest of my undergraduate career. I researched stimulators of interferon genes (STING) protein with Dr. Masakatsu Watanabe and classmate, Haley Pfeifer. We presented this research at multiple conferences, including the American Chemical Society Midwest Conference and SACAD. We placed third in Empirical Posters at SACAD among other undergraduate students before graduating high school! I believe my experiences and accomplishments at KAMS were highly influential when applying for scholarships. I received a Full-Ride Scholarship to finish my undergraduate degree at FHSU!"

LYLY LE *(Wichita, KS), KAMS Class of 2022*

YOUR HOME AWAY FROM HOME

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 & Science (AMS), which hosts high school students from other states and countries. Custer Hall will quickly become your home away from home where you live and learn in company with exceptional 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.

Community spaces, including small & large study areas, kitchenettes, a game room, and a media room.

Discover your PASSIONS

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).

ACADEMY FAVORITES

- *American Medical Association*
- *Premedical Club*
- *Aikido Club*
- *Astronomy Club*
- *Biology Club*
- *Black Student Union*
- *Chemistry Club*
- *Chess Club*
- *Custer Hall Council*
- *FHSU Chorus*
- *Gay-Straight Alliance*
- *Intramural Athletic Teams*
- *Hackathon, Math Madness, VEX Robotics, & Rocketry Teams*
- *Linguistics Club*
- *Marching/Pep Band*
- *Physics Club*
- *Residential Hall Association*
- *Spanish Club*
- *Student Government Association*

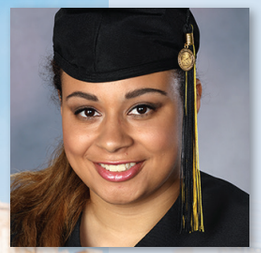
ALUMNI SUCCESS

You have unique educational and career goals, and we have the resources to help you achieve them. KAMS can be used as a steppingstone to get you to your dream school, program, or career. Whether you have aspirations to be a doctor, engineer, or even an astronaut, your KAMS experience will make you stand out among your peers and prepare you for success in ways you have possibly only imagined.

"My journey over the last several years would have looked entirely different had I decided to stay at a traditional high school. In KAMS, I was able to start prerequisite classes earlier, begin research, contribute to various organizations around campus, and meet classmates that had similar aspirations as me. This all had a very large impact on my ability to reach my goal of getting into medical school."

JACOB LUTGEN *(Basehor, KS), KAMS Class of 2017, FHSU Class of 2020, University of Kansas School of Medicine*

Early admitted to the University of Kansas School of Medicine



"KAMS taught me resiliency. It helped me graduate with my masters degree at 21 and taught me to handle challenges and obstacles by solving problems independently. My advice to KAMS students is to network! I find it to be one of the top skills that led me to success, and it is something you can begin developing in this program."

MORGAN JIBOWU *(Topeka, KS), KAMS Class of 2016, FHSU Class of 2018, Kansas State University Class of 2020*

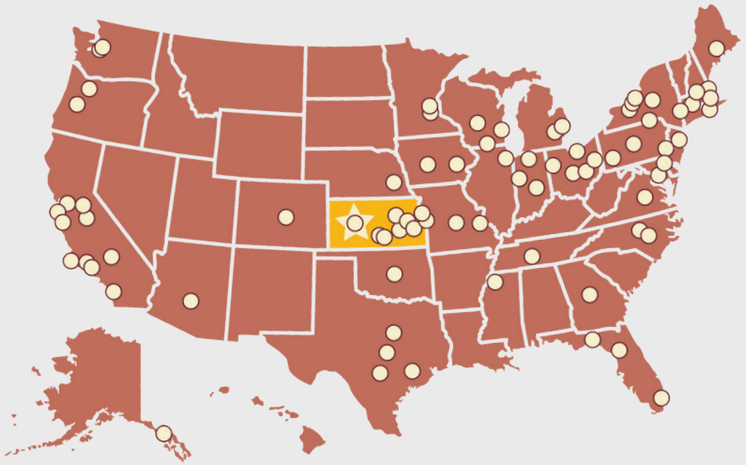
Epidemiologist at Johns Hopkins Hospital

"AMS was the optimal place for me both academically and career wise. Having access to a wide spectrum of courses, I was able to dig deeper into computer science and math while taking various humanities courses which are usually not offered in high school. The AMS staff letting us know about activities, research, and competitions was also very helpful."

JINSEO "JASON" PARK *(Korea), AMS Class of 2018, Georgia Institute of Technology Class of 2021*

Software Engineer at Google

COLLEGE ACCEPTANCE



UNITED STATES COLLEGES & UNIVERSITIES

Arizona State University (Tempe, AZ)
Baylor University (Waco, TX)
Beloit College (Beloit, WI)
Boston University (Boston, MA)
California Institute of Technology (Pasadena, CA)
Carleton College (Northfield, MN)
Carnegie Mellon University (Pittsburgh, PA)
Case Western Reserve University (Cleveland, OH)
Clemson, University (Clemson, SC)
College of Wooster (Wooster, OH)
Colorado School of Mines (Golden, CO)
Cooper Union University (Manhattan, NY)
Denison University (Granville, OH)
DigiPen Institute of Technology (Redmond, WA)
Drexel University (Philadelphia, PA)
Emerson University (Boston MA)
Emporia State University (Emporia, KS)
Florida State University (Tallahassee, FL)
Fort Hays State University (Hays, KS)
Franciscan University of Steubenville (Steubenville, OH)
Friends University (Wichita, KS)
Georgia Institute of Technology (Atlanta, GA)
Grinnell College (Grinnell, IA)
Indiana University (Bloomington, IN)
Johns Hopkins University (Baltimore, MD)
Kansas State University (Manhattan, KS)
Lewis and Clark College (Portland, OR)
Massachusetts College of Pharmacy & Health Sciences (Boston, MA)
Massachusetts Institute of Technology (Boston, MA)
Michigan State University (East Lansing, MI)
Milwaukee School of Engineering (Milwaukee, WI)
Missouri Science & Technology (Rolla, MO)
Northeastern University (Boston, MA)
North Carolina State University (Raleigh, NC)
Ohio Northern University (Ada, OH)
Ohio State University (Columbus, OH)
Park University (Parkville, MO)
Penn State University (State College, PA)
Purdue University (West Lafayette, IN)
Rensselaer Polytechnic Institute (Troy, NY)
Rhodes College (Memphis, TN)
Rice University (Houston, TX)
Rochester Institute of Technology (Rochester, NY)
Rose-Hulman Institute of Technology (Terre Haute, IN)
Rutgers University (New Jersey, NJ)
Southern Methodist University (Dallas, TX)
Stevens Institute of Technology (Hoboken, NJ)
State University of New York (SUNY) – Albany, Binghampton, Buffalo, Geneseo, Stony Brook, Syracuse
Suffolk University (Boston, MA)
The City College of New York (NYC, NY)
Texas A&M University (College Station, TX)
Union College (Schenectady, NY)
University at Buffalo (Buffalo, NY)
University of Advancing Technology (Tempe, AZ)
University of Alaska Southeast (Juneau, AK)
University of California, Berkeley, Davis, Irvine, Los Angeles, Merced, Riverside, San Diego, Santa Barbara, Santa Cruz
University of Chicago (Chicago, IL)
University of Colorado (Boulder, CO)
University of Connecticut (Storrs, CT)
University of Detroit Mercy (Detroit, MI)
University of Florida (Gainesville, FL)
University of Fort Lauderdale (Fort Lauderdale, FL)
University of Illinois Urbana-Champaign (Urbana & Champaign, IL)
University of Kansas (Lawrence, KS)
University of Maine (Orono, ME)
University of Maryland (College Park, MD)
University of Massachusetts, Amherst, Boston, Lowell
University of Michigan (Ann Arbor, MI)
University of Minnesota, Twin Cities (Minneapolis & St. Paul)
University of Missouri (Columbia, MO)
University of Missouri-Kansas City (Kansas City, MO)
University of Nebraska, Lincoln (Lincoln, NE)
University of North Carolina, Chapel Hill (Chapel Hill, NC)
University of Oregon (Eugene, OR)
University of the Pacific Dentistry (Stockton, CA)
University of Pennsylvania (Philadelphia, PA)
University of Rhode Island (South Kingstown, RI)
University of Rochester (Monroe, NY)
University of San Francisco (San Francisco, CA)
University of South Carolina (Columbia, SC)
University of Southern California (Los Angeles, CA)
University of Texas, Austin
University of Virginia (Charlottesville, VA)
University of Washington-Seattle
University of Wisconsin (Madison, WI)
Vanderbilt University (Nashville, TN)
Washburn University (Topeka, KS)
Washington University (St. Louis, MO)
Wentworth Institute of Technology (Boston, MA)
Wichita State University (Wichita, KS)
Worcester Polytechnic Institute (Worcester, MA)

Colleges with bold text indicate US News & World Report's 2022 "Top 50" universities in the United States.

INTERNATIONAL COLLEGES & UNIVERSITIES

Chinese University of Hong Kong (Shenzhen, China)
Hong Kong University (Hong Kong)
King's College (London, UK)
Massey University (New Zealand)
New York University-Abu Dhabi, Shanghai
Singapore University of Technology & Design (Singapore)
University of British Columbia-Okanagan (Vancouver, Canada)

Each list showcases colleges that KAMS/AMS alumni have been admitted to in the past 3 years, schools that alumni have been admitted to that are featured on the most recent U.S. News and World Report Top 50 Best Colleges list, and other colleges that KAMS/AMS alumni have been admitted to that are important to note.

COST & SCHOLARSHIPS

Students who attend KAMS from a Kansas public school have their tuition and fees (up to 68 credit hours total) covered by the state of Kansas. Books, supplies, and a computer are also provided for Kansas public school students.

Room & board charges are estimated to be *$8,481 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.
**2021-2022 estimate. Subject to change each year.*

COST SAVINGS

Attending KAMS for two years can save you $18,000 – $150,000 (depending on college that you select) in tuition and fees for students by reducing the time needed to complete a bachelor's degree.
**Based on College Board reported 2020 trends in pricing for in-state and out-of-state tuition.*

SCHOLARSHIPS

KAMS students cannot qualify for federal financial aid due to their high school student status. KAMS provides options to assist domestic students 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 FHSU.edu/kams.*
  - **Deadline: May 1**

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 FHSU Werth College of Science, Technology, and Mathematics.
  - **Deadline: February 15**

APPLICATION & ADMISSION INFO

Admission to KAMS is evaluated with a holistic view. We are looking for exceptional students who are academically talented, mature, motivated, and are ready to embrace their future. To download a copy of the application packet, ***visit FHSU.edu/kams.***

ADMISSION REQUIREMENTS

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

ADDITIONAL ADMISSION CRITERIA REVIEWED

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

ADMISSION TIMELINE

The suggested deadline for application submission during your 10th grade year is April 1. Applications will continue to be accepted after this date until all 40 new student spots are filled with qualified students. We also offer an early admission opportunity for 9th grade students.

HOW TO PREPARE FOR KAMS

- Take an ACT or SAT exam during the fall semester of your 10th grade year or earlier.

- Visit with your high school counselor about taking additional science and mathematics classes before attending KAMS, to better prepare for the KAMS curriculum.

- Complete your high school's specific credits for graduation before attending KAMS, such as physical education, history, and/or foreign language classes.

- Attend an information session or view a webinar. Check the KAMS website to see when we will be in your area! Virtual webinars are offered multiple times throughout the year.

- Visit campus. The best way to discover if KAMS is the right fit for you is to come see it for yourself. KAMS hosts a Preview Day every fall that allows students and families to experience campus firsthand. Personalized visits to KAMS are also offered any day of the week. Sign up for Preview Day or schedule your personalized visit by contacting the KAMS office.

SCAN CODE TO SIGN UP

CONTACT INFO

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FORT HAYS STATE UNIVERSITY
KANSAS ACADEMY OF MATHEMATICS AND SCIENCE