KANSAS ACADEMY OF MATHEMATICS & SCIENCE At Fort Hays State University FORT HAYS STATE

Forward thinking, World ready.

What is KAMS?

An early-entry-to-college program that allows academically talented and motivated high school juniors & seniors who are interested in math and science to live at FHSU and attend a residential academy.



www.fhsu.edu/kams

Kansas Academy of Mathematics & Science

(785) 628-4690

About KAMS...

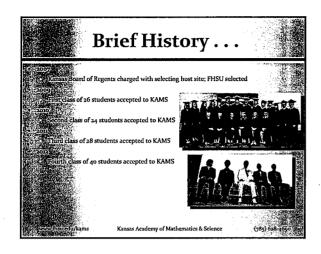
- Students receive 68 hours of college credit
- Focused on academics, research, leadership development and civic engagement
- Established and funded by the Kansas state legislature to promote mathematics and science education

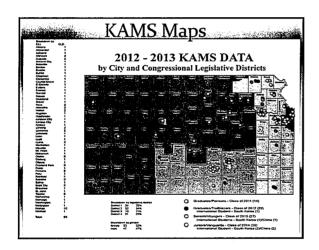


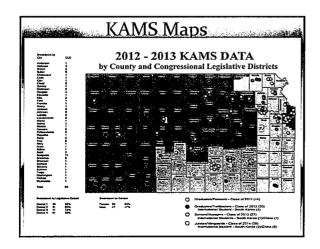


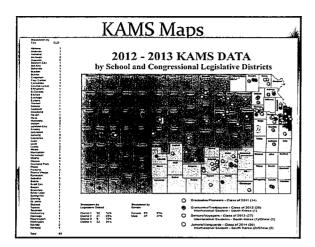
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Why Fort Hays State University?

- Excellent academics
- FHSU's focus on research, leadership development and civic engagement to complement mathematics and science program
- Cross-campus involvement in planning & development
- Small classes taught by PhD faculty
- Safe campus & community

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About FHSU

- Located in Hays -population approximately 20,000
- Established in 1902
- Liberal & applied arts university
- 60+ majors
- Modern lab facilities





- Technology-rich environment
- 13,000 students:

5,000 students on campus Approx. 4,510 students online through Virtual College Approx. 3,620 students at partner universities in China

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Academics

- KAMS students will take regular college courses, integrated with FHSU students
- KAMS students must maintain a 3.0 GPA higher than a "typical" FHSU student!
- Upon completion of KAMS students receive a completion certificate and a high school diploma from their home school

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Research Opportunities

- Gain hands-on research experience with PhD-level faculty
- Develop research skills during your junior year
- Conduct research over the summer or during your senior year
- Make a professional presentation before graduation



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Research Opportunities

- Carbon Sequestration
- Energy from residual yard wastes, including methods of producing methane
- The effects of temperature on tornado frequency in the $\ensuremath{\mathsf{US}}$
- The relationship between the size of a wind farm and its cost efficiency
- The effect of sea surface temperature on the frequency of hurricanes
- The relationship between recycling belief in anthropogenic climate
- · Kansas wheat yield and temperatures







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Junior Year Courses

Fall Semester:

- Pre-Calculus
- University Chemistry I & Lab
- Geosciences: Research and Writing
- English Composition I
- US History before 1877

17 Credit Hours



Spring Semester

- Analytic Geometry & Calculus I
- University Chemistry II & Lab
- English Composition II

US History after 1877

16 Credit Hours

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Senior Year Courses

Fall Semester:

- Calculus II
- Principles of Biology
- Physics for Scientists & Engineers I
- Fundamentals of Oral
 Communication
- Departmental Research & Writing

18 Credit Hours



Spring Semester:

- American Governmen
- Computer Science Elective
 Physics for Scientists &
- Physics for Scientists & Engineers II
- Issues in Leadership: Global Challenges
- Departmental Research & Writing

17 Credit Hours

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Advising

The KAMS staff will:

Coordinate transfer of records with each sending

Establish academic articulation agreements with each sending school

Ensure that state assessments are conducted and scores submitted to each sending school

Register students for classes

Actively monitor student progress/performance Assist students with college application process

Assist students with test registration such as SAT &

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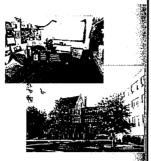
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Living Community

- All students live in Custer Hall
 - Custer Hall renovated for KAMS program Tigers Den
- Supervision

Live-in professional staff, curfews and checkin/check-out procedures KAMS offices located in Custer Hall



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• Safety

Student safety is first and foremost

FHSU Police Department located in Custer Hall

• Conduct Code

Attendance is a privilege, not a right. Negative behaviors will result in negative consequences







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Student Life

- The Kansas State High School Activities Association allows non-athletic activities, but no League or State-level competition for KAMS students
- Currently available:

KAMS-specific clubs and activities such as student government & prom

Membership in FHSU clubs and organizations such as marching band & departmental clubs Recreational and cultural events on campus such as intramurals & fine arts series Specialized programming by KAMS staff Trips to other Regents institutions & to Kansas business & industry



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Evaluation of Applicants

Holistic evaluation:

Overall GPA
ACT/SAT scores
GPA in relevant classes
Class rank
Student Essays
Teacher evaluations
Leadership qualities
Maturity & motivation

Phone interview



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Characteristics of a Successful KAMS Student

- Enjoys mathematics and science
- Un(der)challenged in school
- Demonstrates maturity and dedication
- Willing to live away from home
- Willing to take risks
- Willing to work hard
- Willing to be part of a group
- Exhibits high personal standards

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The more students can prepare ahead of time, the better

Take ACT/SAT in fall of sophomore year (or earlier) Complete Pre-calculus, if possible

Take all PE & foreign language credits Take all school-specific credits





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Costs

• Tuition and fees

Transfer of base state aid from sending school to KAMS, so free for Kansas public school students

• Computer

Provided by KAMS funding

• Textbooks

Provided by state appropriation

* International students pay \$30,000 per year to attend KAMS

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Responsibility of Students/Families:

- Housing (includes the meal plan)
 - \$7,130 in 2012/13
 - Working to develop private funding for scholarships
- Transportation to/from campus
- Incidentals (snacks, spending money)

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Timeline

- November 10, 2012: KAMS Preview Day on FHSU campus
- January 1, 2013: Application deadline
- February, 2013

US applications reviewed Phone interviews

March, 2013

Phone Interviews Students Notified



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KAMS STAFF



Ron Keller



Roger Schielerecke Assoc. Director for



Ingela Delzeit



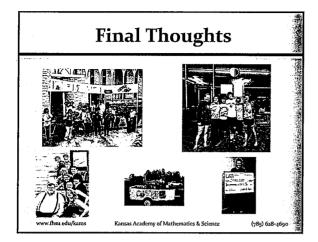
Ann Noble



Moissa Moyers

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Contact KAMS Website: www.fhsu.edu/kams Coffice: (785) 628-4690 Director: (785) 628-5973 Address: 600 Park Street Hays, KS 67601 KAMS is on facebook

KAMS Student Accomplishments

- 3 National Merit finalists, several named semi-finalist and commended scholars
- a students placed 1st in their divisions in Regional Science & Engineering Fair Placed 1st & 2^{sd} in State Science & Engineering Fair
- a students attended INTEL Science & Engineering Fair in California with 1 student earning Honorable Mention by the American Meteorological Society and Google Recognition
- Student placed is at Junior Academy of Science
- KAMS team won FHSU Scholars Bowl
- KAMS team participated in Regional Academic Scholars Bowl competition
- Received multiple prestigious scholarship offers from Regent Universities including: FHSU, KSU, KU and WSU
- Students offered Putnam Scholarships
- Student member of the American College of Chest Physicians

- Students offered Watkins-Berger Scholar
- Student received National Award for Aspirations in Computing 1 of 35 from 900 applications, only Kansas student awarded
- Students held leadership positions in Fort Hays Honor Society, and student governm
- Multiple students in FHSU marching band, choral groups, FHSU theatre productions
- Student selected for summer internship Students active in Residence Hall council
- Student serving on Judicial Board
- Student selected as VIP Ambassador
- Student presented at the American Association of Cereal Chemists conference in Palm Springs
- Students involved in service projects on campus and in the community

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Hlighlighted Accomplishments

- 3 National Merit finalists, several named semi-finalist and commended scholars
- 2 students attended INTEL Science & Engineering Fair in California with 1 student earning Honorable Mention by the American Meteorological Society and Google Recognition
- Received multiple prestigious scholarship offers from Regent Universities including: FHSU, KSU, KU and WSU
- Students held leadership positions in Fort Hays Honor Society, and student government
- Students involved in service projects on campus and in the community

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Admission & Selection

Requirements

Algebra II and Geometry successfully completed before enrollment at KAMS (Pre-calculus & Chemistry preferred) Minimum 23* composite on ACT or minimum 1590* on SAT





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