

EARLY COLLEGE PROGRAMS AT FORT HAYS STATE UNIVERSITY

Kansas Academy of Mathematics and Science & Academy of Mathematics and Science 2022-2023 School Profile



Early College Programs includes two premier, academic early college academies for the best and brightest high school students from around the world. The academies are housed on the campus of Fort Hays State University (FHSU) in Hays, Kansas. Students from both academies live and study alongside one another while taking rigorous college coursework with traditional college students during their junior and senior years of high school.

In the program, students receive:

- Hands-on research opportunities with Ph.D.-level faculty
- Leadership development and civic engagement opportunities
- Co-curricular activities to develop the whole student
- A high school diploma & the option to complete an Associate of General Studies in Science degree from FHSU

Admission into the academies is competitive and applicants are evaluated holistically. The admission committee takes into consideration standardized test scores, GPA, attendance, maturity, leadership, involvement, character fitness, and a multitude of other criteria.



FORT HAYS STATE UNIVERSITY
KANSAS ACADEMY OF MATHEMATICS
AND SCIENCE



FORT HAYS STATE UNIVERSITY
ACADEMY OF MATHEMATICS AND SCIENCE

KANSAS ACADEMY OF MATHEMATICS AND SCIENCE [KAMS]

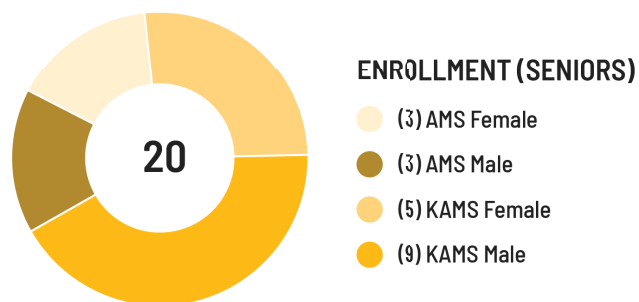
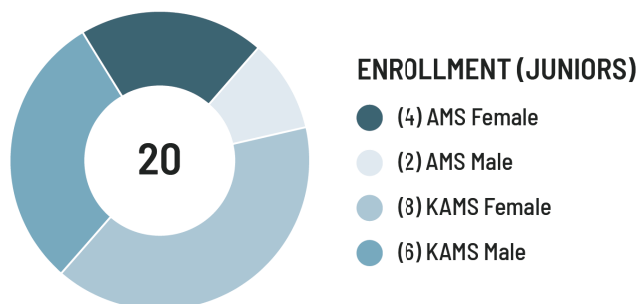
KAMS was established by legislative action in 2006 by Senate Bill 139 and is Kansas' first and only fully immersive early college program. KAMS allows academically talented and motivated Kansas high school juniors and seniors to live at FHSU and attend a residential academy. Although students complete their remaining two years of high school at FHSU, they remain enrolled in their sending high school. During the college application process, KAMS students will submit a Fort Hays State University transcript and their respective Kansas high school transcript. Upon graduation, Kansas students receive a high school diploma from their sending high school and a certificate of completion from KAMS.

ACADEMY OF MATHEMATICS AND SCIENCE [AMS]

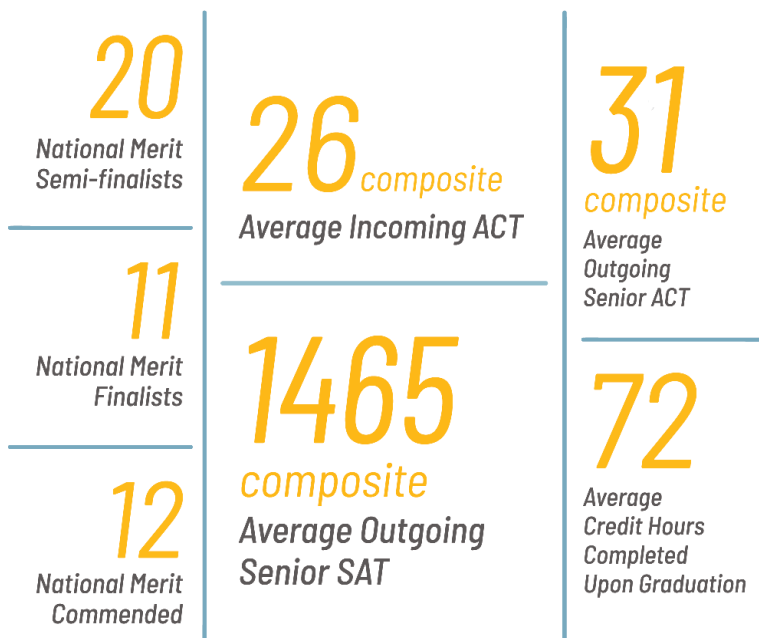
AMS was established to accommodate the KAMS program's growing international and out-of-state student populations. AMS students live on campus in the same residence hall and take the same courses as KAMS students. International students attending AMS are enrolled at Thomas More Prep-Marian (TMP) High School (Hays, Kansas). TMP is one of the state's top private high schools with a strong reputation for preparing students for elite educational opportunities. During the college application process, international students will submit a FHSU transcript and a TMP transcript. Upon graduation, our international students receive a high school diploma from TMP High School and a certificate of completion from AMS.

Out-of-state students attending AMS are enrolled at their respective state's sending high school. During the college application process, out-of-state students will submit a Fort Hays State University transcript and a high school transcript from their respective out-of-state sending school. Upon graduation, out-of-state students attending AMS will earn a high school diploma from their respective sending high school and a certificate of completion from AMS.

2022-2023 ENROLLMENT



Total Enrollment: **40 students**
 Countries Represented: **United States, China, South Korea**
 Students from U.S. Rural Cities and Towns: **19**
 Students from U.S. Metropolitan Cities: **9**



* KAMS/AMS does not rank students. However, a student's sending high school may provide a class rank on the sending high school transcript.

SAMPLE COURSE PROGRESSION

JUNIOR YEAR

Fall Semester	Spring Semester
Pre-Calculus	Calculus I
*Principles of Biology + Lab OR *Human Biology + Lab	*Chemistry I + Lab OR University Chemistry I + Lab
English Composition I	English Composition II
U.S. History Before 1877	U.S. History After 1877
Earth, Space, Science Research & Writing	Departmental Research & Writing
Research Seminar	
17 Credit Hours	16-18 Credit Hours

SENIOR YEAR

Fall Semester	Spring Semester
Calculus II	American Government
*Physics I + Lab OR Engineering Physics I + Lab	Computer Science Elective STEM Elective
STEM elective	Social Studies Elective
Departmental Research & Writing	Elective course of interest
14-16 Credit Hours	Departmental Research & Writing
	14-16 Credit Hours

**FLEXIBLE PATHWAYS: Our course schedule provides students with a choice of an academic pathway that is related to their anticipated academic program and/or career of choice. Students are given the option to complete more rigorous coursework in their desired discipline based on their background, previous knowledge, and academic interest.*



SCAN TO VIEW
SAMPLE CURRICULUM

SAMPLE STEM ELECTIVE OPTIONS

APPLIED TECHNOLOGY

Intro to Computer Aided Drafting
Intro to STEM Applications

BIOLOGY

Botany
Zoology
Microbiology

CHEMISTRY

University Chemistry II + Lab
Organic Chemistry I & II + Lab

COMPUTER SCIENCE

Foundations of Computing
Object-Oriented Programming
Java Programming

GEOSCIENCE

Climatology
Elementary Meteorology
Intro to GIS

MATHEMATICS

Elements of Statistics
Linear Algebra
Differential Equations

PHYSICS

Engineering Physics II + Lab
Analog & Digital Electronics
Modern Physics

Depending on the student's area(s) of interest, they have the option to take other FHSU elective courses, as needed.

SAMPLE STUDENT ORGANIZATIONS

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

CONTACT US

Early College Programs

KAMS/AMS

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Director

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Assistant Director & Advisor

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COLLEGE ACCEPTANCE

Graduating Class of 2021 (Class Size: 31 students)

Arizona State University
Beloit College
Colorado School of Mines
Colorado State University
Denison University
Emerson University
Fort Hays State University
Franciscan University
Georgia Institute of Technology
Indiana University Bloomington
Kansas State University
Massey University
Ohio State University
Penn State University

Purdue University
Purdue University at Fort Wayne
University of Alaska Southeast
University of British Columbia-
Okanagan
University of California Davis
University of California Irvine
University of Florida
University of Illinois at
Urbana-Champaign
University of Kansas
University of Maine
University of Maryland

University of Massachusetts
Amherst
University of Minnesota-Twin Cities
University of Missouri
University of Missouri-Kansas City
University of Nebraska
University of Oregon
University of Rhode Island
University of Southern California
University of Virginia
University of Wisconsin-Madison
Vanderbilt University
Wichita State University

Graduating Class of 2022 (Class Size: 28 students)

Arizona State University
California Institute of Technology
Carnegie Mellon University
Case Western Reserve University
Clemson University
College of Wooster
Digi-Pen Institute of Technology
Drexel University
Fort Hays State University
Indiana University-Bloomington
Kansas State University
Lewis & Clark College
Massachusetts Institute of Technology

Michigan State University
Missouri Science & Technology
Ohio State University
Penn State university
Rensselaer Polytechnic Institute
Texas A & M
Union College
University at Buffalo
University of Advancing Technology
University of California-Davis
University of California-Irvine
University of California-San Diego
University of California-Santa Cruz

University of Colorado
University of Detroit-Mercy
University of Florida
University of Illinois Urbana Champagne
University of Kansas
University of Massachusetts at Amherst
University of Michigan-Ann Arbor
University of Minnesota Twin Cities
University of the Pacific
University of South Carolina
University of Wisconsin-Madison
Washburn University