

EARLY COLLEGE PROGRAMS AT FORT HAYS STATE UNIVERSITY

Kansas Academy of Mathematics and Science
Academy of Mathematics and Science
2019-2020 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 during their junior and senior years of high school. In the program, students receive:

- hands-on research opportunities
- leadership development and civic engagement
- co-curricular activities to develop the whole student
- the option to complete an Associate of General Studies in Science degree.

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

Forward thinking. World ready.



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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.

2019-2020 Enrollment

	KAMS Juniors	AMS Juniors
Female	17	4
Male	13	9
Total	30	13

	KAMS Seniors	AMS Seniors
Female	12	6
Male	8	14
Total	20	20

Total Enrollment: 83 students

Academy of Mathematics and Science (AMS)

AMS was established to accommodate the program's growing international and out-of-state student population. 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 Nickerson High School (Nickerson, Kansas). Even though our international students live on campus and take courses through the AMS program at FHSU, they are enrolled at Nickerson High School. During the college application process, international students will submit a Fort Hays State University transcript and a Nickerson High School transcript. Upon graduation, our international students receive a high school diploma from Nickerson 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.

Average Incoming ACT

26 Composite

Average Outgoing Senior ACT

32 Composite

Average Outgoing Senior SAT

1420 Composite

Average Credit Hours Completed Upon Graduation

72

National Merit Finalists

6

National Merit Semi-Finalists

13

National Merit Commended

11



* 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

- Pre-Calculus
- Principles of Biology + Lab
- English Composition I
- U.S. History Before 1877
- Earth, Space, Science Research & Writing
- Research Seminar

17 Credit Hours

Spring Semester

- Calculus I
- Chemistry I + Lab
- English Composition II
- U.S. History After 1877
- Departmental Research & Writing

16-18 Credit Hours

Senior Year

Fall Semester

- Calculus II
- Engineering Physics I + Lab
- STEM elective
- Departmental Research & Writing

14-16 Credit Hours

Spring Semester

- American Government
- Computer Science Elective
- STEM Elective
- Social Studies Elective
- Elective course of interest
- Departmental Research & Writing

14-16 Credit Hours

STEM Elective Options

Agriculture

Animal Science
Agronomic Crop Sciences + Lab

Chemistry

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

Mathematics

Elements of Statistics
Linear Algebra
Differential Equations

Applied Technology

Intro to Computer Aided Drafting
Intro to STEM Applications

Computer Science

Foundations of Computing
Object-Oriented Programming
Java Programming

Physics

Engineering Physics II + Lab
Analog & Digital Electronics
Modern Physics

Biology

Botany
Zoology
Microbiology
General Microbiology

Geoscience

Climatology
Elementary Meteorology
Intro to GIS

Sample Student Organizations

Agronomy Club
American Medical Association
Pre-Medical Student Chapter
Art Club
Astronomy Club
Big Brothers Big Sisters
Chemistry Club

Chess Club
FHSU Chorus
FHSU Intramural Athletic Teams
Fort Hays Honor Society
Habitat for Humanity
KAMS/AMS Rocket Club

KAMS/AMS VEX Robotics
Marching/Pep Band
Math Madness
Model United Nation
Student Government Association
Tigers in Service

Contact Us

Early College Programs (KAMS/AMS)

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Assistant Director Advisor (M-Z)

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College Acceptance

2018-2019

Graduating Class Size: 42

Albany College of Pharmacy & Health Sciences	Northeastern University, Boston	University of Illinois -- Chicago, Urbana-Champaign
Arkansas Tech University	Northwest Missouri State University	University of Iowa
Auburn University	Oakland University	University of Kansas
Boston University	Ohio State University	University of Maine
Bowling Green State University	Penn State University	University of Maryland
Carroll University	Purdue University	University of Massachusetts, Amherst
Case Western Reserve University	Rensselaer Polytechnic Institute	University of Miami
Clark University	Rhodes College	University of Minnesota, Twin Cities
College of the Atlantic	Rochester Institute of Technology	University of Missouri, Kansas City
College of Wooster	Rose-Hulman Institute of Technology	University of Nebraska, Lincoln
Colorado School of Mines	Rutgers University	University of Nevada, Las Vegas
Cooper Union	South Dakota School of Mines & Technology	University of North Carolina, Chapel Hill
Duquesne University	Southern Illinois University	University of Northern Texas
Emporia State University	St. John's University	University of Pittsburg
Fort Hays State University	Stevens Institute of Technology	University of Rochester
Georgia Institute of Technology	State University of New York (SUNY) -- Buffalo, Geneseo, Stony Brook,	University of South Alabama
Grand Valley State University	College of Environmental Science & Forestry, Syracuse	University of Tampa
Indiana University, Bloomington	Temple University	University of Texas, Austin
Johns Hopkins University	University of California -- Berkeley, Davis, Irvine, San Diego, Santa Barbara, Santa Cruz	University of Washington, Seattle
Kansas State University	University of Central Florida	University of Wisconsin, Madison
Kenyon College	University of Colorado, Boulder	Virginia Polytechnic Institute & State University
Massachusetts College of Pharmacy & Health Science	University of Connecticut	Washburn University
Missouri University of Science & Technology		Wichita State University
North Carolina State University		Worcester Polytechnic Institute

2017-2018

Graduating Class Size: 32

Adelphi University	Moravian University	University of Chicago
California Polytechnic State University	Muhlenberg College	University of Colorado, Boulder
Case Western Reserve University	Nova Southeastern University	University of Connecticut
Colorado School of Mines	Ohio State University	University of Detroit Mercy
Fort Hays State University	Oklahoma State University	University of Illinois, Urbana-Champaign
Georgia Institute of Technology	Oregon State University	University of Iowa
Grinnell College	Penn State University	University of Kansas
Illinois Institute of Technology	Purdue University	University of Maryland
Indiana University, Bloomington	Reed College	University of Massachusetts -- Amherst, Boston, Lowell
Kansas State University	Rose-Hulman Institute of Technology	University of Miami
King's College, London	Rutgers University, New Brunswick	University of Michigan
Lawrence Technological University	Seton Hall University	University of Minnesota, Twin Cities
Lewis and Clark College	State University of New York (SUNY) -- Albany, Buffalo, Geneseo, Stony Brook	University of Texas, Austin
Massachusetts College of Pharmacy & Health Sciences	Texas A&M University	University of Washington, Seattle
Michigan State University	University of California -- Davis, Irvine, Santa Cruz, San Diego	University of Wisconsin, Madison
Missouri University of Science & Technology		Washburn University