



67
AL Counties
Represented
by Alumni

100%
College
Acceptance

16:1
Student:Teacher
Ratio

STEM
CERTIFIED
through
Cognia

100%
of faculty have
Ph.D. or
Master's degree

200+
courses taught
at honors level
or university
equivalent



ALABAMA SCHOOL OF MATH AND SCIENCE

Educating the next generation of leaders, scholars, and innovators

2025 - 2026 SCHOOL PROFILE

OUR MISSION

The Alabama School of Mathematics and Science offers students educational opportunities they will not find anywhere else in the state of Alabama. ASMS is set apart by its academic rigor, residential learning environment, leadership opportunities, and research focus for students.

ABOUT ASMS

The Alabama School of Mathematics and Science is the state of Alabama's only fully residential public high school for highly motivated sophomores, juniors, and seniors seeking advanced studies in math, science, and the humanities. The Alabama State Legislature founded ASMS in 1989 to better prepare Alabama's future leaders for STEM (science, technology, engineering, and math) careers. ASMS's mandate encourages it to offer a challenging academic environment for students from all around Alabama and especially to those from underserved counties.

ADMISSIONS

Rising 10th and 11th graders from across Alabama apply to attend ASMS. The Admissions Committee receives nearly 600 applications per year and selects approximately the top 17% of applicants. The committee considers ACT score, GPA, extracurricular activities, motivation, maturity, and campus diversity in choosing the best students from the state's 67 counties.

ASMS DEPARTMENT OF ACADEMIC AFFAIRS

1255 DAUPHIN STREET | MOBILE, AL 36604 | 251.441.2100 | MFRYE@ASMS.NET | SCHOOL CODE 011793 |

Curriculum

ASMS operates on an accelerated system of three academic terms per year. Students benefit from a challenging curriculum that includes AP courses, honors courses, electives modeled on university seminars, and individualized independent study courses. Access to AP courses and upper-level electives requires department or instructor approval. All students are required to enroll in at least five academic courses per term, but many choose to take on additional research hours and electives in their areas of interest.

Students must complete a minimum of 26.5 Carnegie Units in coursework. Those who surpass the curriculum requirement in a subject area by 1.5 CU may graduate with a "Concentration" in the subject, while those who exceed the requirement by 3.0 CU may earn a "Concentration with Distinction" designation. All concentration coursework must meet subject-area GPA requirements set by the department.

Required Academic Coursework

Biology	1.5 CU
Chemistry	1.5 CU
Computer Science	0.5 CU
English	4.0 CU
Fine Arts	0.5 - 1.0 CU
General Electives	1.25 - 1.50 CU
History	4.0 CU
Mathematics	4.0 CU
Physical Education and Health	1.5 - 2.0 CU
Physics	1.5 CU
World Languages	2.0 CU
Additional Elective Credits	4.0 - 5.25 CU

Student Body Demographics

RACE / ETHNICITY	STUDENTS	PERCENT
Black or African American	53	18%
Caucasian	155	52%
Hispanic	22	7%
Asian	39	13%
Biracial or Multiracial	15	5%
Native American or Alaskan	13	4%
Prefer not to answer	4	1%
Total	301	100%
YEAR IN SCHOOL		TOTAL STUDENTS
Seniors		107
Juniors		109
Sophomores		85
Total		301
ALABAMA COUNTIES REPRESENTED:		49

College Preparedness

All ASMS instructors hold advanced degrees in their subject areas and most have experience teaching at postsecondary institutions. All courses are taught at the Honors level or above. Most academic courses are modeled on university equivalents and are taught using college textbooks. Students must maintain a 2.5 GPA. Thanks to ASMS's challenging academics and college-like residential environment, our graduates begin their college experience uniquely prepared to succeed.



Grading

ASMS reports unweighted cumulative GPA, which includes transfer credits from prior schools, and weighted ASMS GPA, which does not include transfer credits. ASMS does not rank students.

Research Fellows

ASMS students are eligible to apply and be selected for the Research Fellows program. Working with the ASMS Research Coordinator and a faculty mentor, participants choose a research topic and then compile a bibliography, conduct research, prepare a paper, deliver a presentation, and defend their work. Finally, students present their projects at the ASMS Spring Research Forum. ASMS also encourages students to submit their work to professional conferences and publications when possible.

Special Projects

Between the Winter and Spring Terms, ASMS students participate in a five-day academic event known as Special Projects Week. Each student enrolls in a single intensive course that meets for six hours per day. These specialized courses are designed around the research interests of ASMS faculty, and they introduce students to the exciting challenge of academic and professional labor.

Student Life and Leadership

Students at ASMS hold leadership positions that empower them to improve their learning and residential environments. Student Government manages a total annual budget of \$39,500, which it uses to host events, invite guest speakers, and install amenities. Student Ambassadors escort visitors on campus and serve as hosts during official functions. Peer Advisors acclimate new students to dorm life, plan hall activities, and supervise cleaning responsibilities. Students invent and perpetuate memorable campus traditions from the Geekfest convention to Goofy Olympics.

Class of 2025 Statistics

GRADUATES
75 Students 100% College Bound
STANDARDIZED TEST PERFORMANCE
ACT Average Composite Score: 28 SAT Mean Evidence-Based Reading & Writing: 631 SAT Mean Mathematics: 614 SAT Mean Total Score: 1245
NATIONAL MERIT
3 National Merit Finalists
GPA
4.0 - 3.75 = 37 students 3.74 - 3.5 = 19 students 3.49 - 3.0 = 18 students 2.99 - 2.5 = 1 student

AP Data for 2025 Test Takers

Total AP Students: 141
Number of Exams: 285
Average AP Exam Score: 3.8
% of Students with Scores 3+: 95%



Academic Course Offerings

BIOLOGY

Honors Biology
AP Biology
Anatomy and Physiology
AP Environmental Science
Zoology
Classical Genetics
Marine Biology
Biological Systems
Microbial Ecology
Oceanography
Paleontology
Veterinary Medicine
History of Microbiology
Evolution and Biodiversity
Molecular Biology
Biology Research

CHEMISTRY

Introductory Chemistry
General Chemistry
Organic Chemistry
AP Chemistry
Intro to Organic Chemistry
Biochemistry
Inorganic Chemistry
Environmental Chemistry
Chemistry Research
Nuclear Chemistry

COMPUTER AND INFORMATION SCIENCE

Computer Science: Principles
AP Computer Science
Database Design & SQL
Data Science w/ Python
Webpage Development
App Development
Advanced C#
Advanced Java
Advanced Web Development
Computer Ethics
Computer Security Fundamentals
Cybersecurity
Fundamentals of Programming
Microcomputer Applications
Computer Research
Networking Fundamentals

ENGLISH

AP English Language
Sophomore English
American Literature I & II
Dystopian Novel
AP English Literature
British Literature I & II
African-American Literature
Speech Communication
Journalism, Media Literacy,
& Mass Communication
Creative Writing
Shakespeare on Stage
Adv Speech Communications
Out of the Canon
Victorian Women's Studies
Writing about Film
Gothic Studies
Survey of World Drama
English Research
Magical Realism in Literature

FINE ARTS

AP Studio Art
Graphic Design
Survey of the Arts: Music
Survey of the Arts: Visual Arts
Intro Music Theory
Advanced Music Theory I, II, III
Broadway Blues & Jazz
Theater Arts/Production
Advanced Art I, II, III
Sight Singing & Ear Training
Walt Disney's America

GENERAL ELECTIVES

ASMS Research Fellows
Debate
Qualitative Research Methods
Mythology
Intro to Psychology
AP Psychology
Philosophy of Science

HISTORY

Adv American Studies I & II
Economics
Adv American Government
American Minority Relations
Rock-n-Roll
Revolutions
World War I & II
AP US History
Post-1945 US History
Civil War
America in the 1950s
Heroes & History
Ethics & Govt Policy
Comparative Religions
Human Geography
Human Geography II
AP Human Geography
Terrorism & Violence
The New South
The Romantic Era
Western Thought II
Women of the Renaissance
America and the World
History Research
Urbanism
AP World History

MATHEMATICS

Geometry
Intermediate Geometry
Intermediate Algebra
Accelerated Algebra
Trigonometry
Precalculus
AP Precalculus Review
AP Calculus Review
AP Statistics Review
Differential Calculus
Integral Calculus
BC Calculus
Introduction to Statistics
Visual Mathematics
Financial Mathematics
Number Theory
Multivariable Calculus I & II
Differential Equations
Linear Algebra

Problem Solving
Topology
Advanced Geometry
Complex Analysis
Finite Math
Geometric Design
Intro Real Analysis I & II
Intro to Game Theory
Discrete Math
Counting & Probability I & II
Math Research

PHYSICS

Intro to Physics
Intro to Engineering
Flight Studies
Honors Physics
AP Physics 1
AP Physics 2
Robotics
AP Physics C
Intro to Astronomy
Intro to Materials Science
Intro to Medical Physics
Mechanical Engineering
Fundamentals of Engineering
Quantum & Relativity
Principles of Biophysics
Lasers and Holography
Computational Materials Science
Physics Research
Competition Robotics

WORLD LANGUAGES

Beginning French
Intermediate French
Advanced French
French IV & V
Readings in French
Beginning German
Intermediate German
Advanced German
German IV & V
German for Engineers
Readings in German
Beginning Spanish
Intermediate Spanish
Spanish IV
Advanced Spanish Reading
Program Abroad: Germany & Spain

Five-Year Matriculation

Alabama A & M University
Auburn University
Auburn University at Montgomery
Binghamton University
Boston College
Boston University
Brown University
California Institute of Technology
Coastal Alabama Community College
Colorado State University
Columbia College Chicago
Columbia University
Columbus State University
Duke University
Florida Southern College
Fordham University
Georgia Institute of Technology

Harvard University
Harvey Mudd College
Howard University
Huntingdon College
IE University
Jacksonville State University
Johns Hopkins University
Lehigh University
Massachusetts Institute of Technology
Mississippi State University
Mississippi Valley State University
Northeast Alabama Community College
Northwestern University
Ohio State University
Oxford College of Emory University
Princeton University
Rensselaer Polytechnic Institute
Rhodes College
Rice University
Rose-Hulman Institute of Technology
Salem College
SUNY at Purchase College
Saint John's College
Sarah Lawrence College
Spelman College
Stanford University
Trinity University
Troy State University
Tulane University
Tuskegee University
United States Air Force Academy
United States Coast Guard Academy
University of Alabama
University of Alabama - Birmingham
University of Alabama - Huntsville
University of Arizona
University of California - Los Angeles
University of Florida
University of Michigan
University of Montevallo
University of Pennsylvania
University of North Alabama
University of South Alabama
University of South Florida
University of Southern Mississippi
University of Tennessee - Knoxville
University of Texas - Austin
University of West Alabama
University of West Florida
Vanderbilt University
Vassar College
Wallace Community College
Western Carolina University
William Carey University
Xavier University of Louisiana
Yale University

