

2024 A²I Summer Acceleration Mathematics Program

What Is the Purpose of this Program?

The Advanced Academic Immersion (A²I) Summer Acceleration Program is designed to prepare students for entry into a rigorous course of study that affords ALL mathematics students the opportunity to accelerate their learning. A²I enables students to develop critical thinking and problem-solving skills essential to success in Advanced Placement (AP) and college courses.

What is required to enter the program?

- > Be enrolled in high school for the Fall of 2024 (Spring 2024 students in grades 8 - 11 are eligible)
- > Successful completion of pre-requisite courses
- > **Passing score on appropriate A²I-designed pre-test**

What are the course requirements?

- > Attend the course for 100 hours (five hours a day for 20 days). No more than two absences are allowed. More than two absences will be cause for dismissal from the program. Special permission to miss more than two days may be obtained through Kenyail Carr, prior to the beginning of the program. Students may not miss the first or last week of the program and must be present to take the post-test.
- > **At the end of the course, students must have completed all weekly assessments and successfully completed the post-test with a grade of 80 or higher in order to receive credit for the course.**

What courses are being offered?

- >> Students can select one of the following courses:
Honors Algebra 1, Honors Geometry, Honors Algebra 2, Honors Precalculus

How will A²I course grades be calculated?

- >> Students will earn a grade on their transcript based on the grades of the pre-test, weekly assessments and post-test. Percentages are as follows:
 - Pre-test – 5%
 - Weekly assessment average – 5%
 - Post-test – 90%
- >> Grades will not be calculated into student's GPA.

How will the STAAR EOC exams be addressed?

- >> Any student taking Algebra 1 is required to score successfully on the STAAR End-of- Course exam for Algebra 1 to meet graduation requirements.
- >> Students who earn Algebra 1 credit in the summer course through A²I, will take their EOC exam in late fall, which is well after the completion of the course.
- >> Tutorial and refresher sessions will be scheduled to help students be successful on the EOC exam.
- >> Note: Changes in this policy may be made as the Texas Education Agency (TEA) posts new policy.

What is the Cost?

Summer Acceleration Program courses are offered at no cost to Fort Worth ISD students.

Important Information

Dates: June 5, 2024 to July 11, 2024 (Monday – Thursday)

Holidays: June 19 & July 4, 2024 (no classes)

Time: 7:30 a.m. – 12:40 p.m.

Place: South Hills High School, 6101 McCart Ave, Fort Worth, TX 76133

> Register on-line, on the FWISD Mathematics Department web page, no later than March 8, 2024. Students and families will be notified of program acceptance the week of May 6th - 15th, 2024, and confirmation of student participation is due May 10, 2024.

>For more information contact

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Looking to the Future with Acceleration?

The Advanced Academic Immersion (A²I) Academic Year Program (Fall and Spring) is designed to provide additional opportunities for talented mathematics students to accelerate their learning in the areas of advanced mathematics, science, and research through courses that are not a part of the curricular offerings at their high school campus of attendance. Current 9th-11th grade students qualify for the A²I Academic Year Program based upon successful completion of Calculus AB and interest.

The A²I Academic Year Program consists of a dozen courses offered across 5 class periods starting as early as 7:00 AM and ending by 11:05 AM. Students are bussed from their regular high school campus to I.M. Terrell for their A²I courses and then back to their regular high school where they finish their school day. (Alternatively, students may provide their own transportation with parent permission.)

Courses offered (can vary upon need) as part of the A²I academic year program include:

Mathematics

- AP Calculus BC
- Multivariable Calculus
- Ordinary Differential Equations
- Calculus-based Statistics
- Linear Algebra
- Mathematical Computer Simulation
- Modern/Quantum Physics (spring only)

Science & Engineering

- AP Physics C: Mechanics
- AP Physics C: Electricity & Magnetism
- Electrical Circuit Theory
- Astronomy/Astrophysics
- Optics
- Theoretical Mechanics (fall only)
- Thermodynamics

Research

- Regeneron Research Projects 1 (Juniors Only)
- Regeneron Research Projects 2 (Seniors who have completed Regeneron 1)