
Academy Key Components

Students build academic, career, and professional skills through:

- Integrated curriculum and thematic, problem-based learning in grades 9–10
- Dedicated staff, study sessions, team-building, and a supportive student-to-staff ratio
- Research, communication, and career-readiness skill development
- Pathway selection and a four-year portfolio showcasing growth and achievements
- Academy and senior projects, including a formal senior presentation
- Saturday Seminars for sophomores and job-shadowing for juniors and seniors
- Awards, recognition, and an additional Academy certificate and medal

Science Pathways

Students explore science, technology, medicine, biology, and related careers while building a strong foundation in research, communication, and problem-solving. The region's connection to major research institutions, including Lawrence Livermore National Laboratory and Sandia National Laboratories, highlights the range of science and technology careers available.

Agricultural Pathways

California agriculture is one of the state's largest industry sectors and is central to its economy. Students can explore production agriculture, environmental science, resource management, and plant and animal sciences while developing technical knowledge and strong oral and written communication skills.

Job Shadowing Business Liaisons and Saturday Seminar Speakers

- [VCA Old River Animal Hospital](#)
 - [Stockton Record](#), Mr. Nick Woodward
 - [Mrs. Brittany Sansoni](#)
 - [UC Berkeley](#), Mrs. Melanie Alexandre, Senior Ergonomist
 - [SF Giants](#), Mr. Matt Furtado
 - [Kimball High School](#), [West High School](#) and [Tracy High School](#), Administration and Staff
 - [Milpitas Police Dept.](#), Sgt. Armando Corpuz
 - [Facebook](#)
 - [National Center for Equine Facilitated Therapy](#)
 - [Tracy Fire Department](#)
 - [San Joaquin County Office of Education](#)
 - [Tracy Chiropractic](#)
 - [DogGirls Rescue](#)
 - [Taylor Fams](#)
 - [City of Sunnyvale Public Safety](#)
 - [Jefferson Schools](#)
 - [Sutter Tracy](#)
 - [DARE](#)
 - [Work Force Development](#), Ms. Rebecca Betencourt
 - [Boyett Construction](#)
 - [Fremont Toyota](#)
 - [Melo Construction](#)
 - [The Photographic Art Studio](#)
 - [Lawrence Livermore National Laboratory](#)
 - [Art Expressions](#)
 - [Alcatraz-Lucent](#)
 - [Superior Court, San Joaquin County](#)
 - [Affordable Pet Vet Clinic](#)
 - [Alvarez Fams](#)
 - [Therapeutic Riding](#)
 - [Stanford Healthcare](#)
 - [Santa Cruz Warriors](#)
 - [West Coast Cryogenic Services](#)
 - [Department of Veterans Affairs](#)
 - [Golden Bear Physical Therapy](#)
 - [Abala Pharmacy](#)
 - [Solano County District Attorney](#)
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Agricultural/Scientific Academy

Friendship. Fulfillment. Connections



TRACY
HIGH SCHOOL

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What is the Agricultural/Scientific Academy?

The Ag-Science Academy at Tracy High School is a four-year college- and career-focused program for students interested in science, agriculture, environmental topics, and related careers. It also supports students who are still exploring their future goals.

Students experience integrated English, Social Studies, and Science through hands-on, thematic, problem-based learning that connects science and agriculture to their communities, daily lives, and future opportunities.

Advanced Academic Preparation

The Ag-Science Academy includes an advanced, college-preparatory curriculum designed to help students build strong academic skills over four years. Freshman and sophomore Academy courses provide enriched instruction, guided support, and opportunities to strengthen reading, writing, research, collaboration, and critical-thinking skills.

These advanced courses are intended to prepare students who may wish to pursue Honors-level coursework and other rigorous academic opportunities during high school. Students do not need to have all of their future plans decided before joining; the Academy is designed to help them grow in confidence, develop effective learning habits, and prepare for a range of college and career options.

What Students Receive

- Advanced college-preparatory coursework in grades 9–10
- Hands-on, problem-based learning and pathway exploration
- Supportive Academy staff, study sessions, and smaller student-to-staff ratios
- Training in research, academic writing, presentations, and professional communication
- Team-building experiences and strong connections with peers and staff
- Career exploration through sophomore Saturday seminars and junior/senior job-shadowing
- A four-year professional portfolio showcasing growth, projects, and accomplishments
- Academy and senior projects with formal presentations in grades 11–12

Student Recognition

Students who successfully complete all Academy requirements will be recognized their Senior Year at the Academy Awards Night in the spring and receive a bronze medallion, and certificate of completion. Students will also have completed a professional portfolio highlighting their skills, experiences, and accomplishments.

Required Academy Courses

FRESHMAN (9th Grade)

- Ag/Science Enhanced Biology OR Ag Biology
- Academy Core Advanced English I
- Academy Core Social Studies World Geography
- Math, PE, Elective/Modern Language 1

SOPHOMORE (10th Grade)

- Ag/Science Enhanced Chemistry OR Ag Chemistry
- Academy Core Advanced English 2
- Academy Core Advanced Social Studies World History
- Academy Saturday Seminars
- Math, PE, Elective/Modern Language 2

JUNIOR (11th Grade)

- Ag/Science CP English 3 or IB English HL1
- Ag/Science US History or IB History of the Americas HL1
- Mathematics, Science, elective/Pathway Classes
- Academy Project Class and Job Shadowing

SENIOR (12th Grade)

- Ag/Science CP English 4 or IB English HL2
- Ag/Science Econ/Government or IB History of the Americas HL2
- Math/Science/Electives/Pathway Classes
- Academy Senior Project and Student Recognition Night

JUNIOR AND SENIOR PATHWAYS

Junior and senior pathways combine core classes and electives aligned with students' college, career, and personal goals. Students may select a pathway or create a personalized educational plan.

- **MEDICINE:** Advanced Biology I and II (H), Chemistry (H), Human Physiology, Physics (H), Psychology (H)
- **VETERINARY SCIENCE:** Veterinary Science, Animal Physiology, Chemistry (H), Meat Processing, Small Animals and Horses
- **ENVIRONMENTAL SCIENCE:** IB Environmental Systems (H), Forestry and Wildlife, Landscape Management
- **APPLIED TECHNOLOGY:** Welding, Auto Shop, AP Computer Science, Maker Space, Physics, Shop Skills, Wood Shop
- **CHILDCARE RESOURCE SPECIALIST:** Child Development, Human Physiology, ROP Childcare, and Psychology
- **AGRICULTURAL SCIENCE:** An individualized curriculum will be planned based on the student's interest and focus.

PROGRAM SUPPORT

Tutoring Assistance

Credentialed staff members provide study skills sessions before and after school. These sessions are highly recommended. Study time with other students and tips on notetaking and time management are particularly useful.

Field Trips

The Ag-Science Academy strives to provide up to four class field trips each year, depending on available funding and opportunities. Field trips give students meaningful opportunities to connect classroom learning to the real world.

Past Field Trips have been to California Academy of Sciences, College Tours, and Alcatraz.

Field-trip locations and activities may change from year to year

HOW TO APPLY

Enrollment in the Ag-Science Academy requires an application and selection process. The Academy is a four-year program that begins in ninth grade; students are generally not admitted after their freshman year. Completed applications must be submitted by **December 4, 2026**.

To Access the application and program information:

- Visit our THS webpage:
<https://tracyhigh.tracy.k12.ca.us/academics-programs/ag-science-academy>
- Or scan the QR code below to visit our webpage

