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## Academy Key Components

The program offers many opportunities for success:

- \* Integrated Curriculum Freshman and Sophomore years
- \* Thematic, problem based units
- \* Team building
- \* Introduction to the research process
- \* Lower student-to-staff ratio
- \* Dedicated staff
- \* Study sessions
- \* Demonstration Portfolio
- \* Serious focus on skill development
- \* Select Pathway
- \* Portfolio Update
- \* Design & complete Senior Project
- \* Senior Project-Formal Presentation
- \* Final Portfolio
- \* Awards and Recognition Night, Additional Certificate and Medal
- \* *Saturday Seminars* (Sophomores)
- \* Job Shadowing (Juniors/Seniors)
- \* an *Academy Project* (Juniors/Seniors)
- \* a *Four Year Portfolio* to chronicle the high school academy years

**SCIENCE FIELDS:** Tracy is home to many families that work at Lawrence Livermore National Lab, Sandia National Lab and in the Silicon Valley. These research facilities have many Nobel Prize-winning scientists. A strong foundation of science and technology are opportunities open to Academy students whose interests include medicine, biology, and the sciences.

**AGRICULTURAL FIELDS:** Agriculture is the number one industry in the state of California. There is a need for demanding curriculum to meet the increasing employment demands in production, environmental science, resource management and plant and animal sciences. Students will have the chance to expand their technical knowledge as well as develop strong oral and written communication skills.

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## Job Shadowing Business Liaisons and Saturday Seminar Speakers

- VCA Old River Animal Hospital
- Stockton Record, Mr. Nick Woodward
- UC Berkeley, Mrs. Melanie Alexandre, Senior Ergonomist
- SF Giants, Mr. Matt Furtado
- Mayor Robert Rickman, City of Tracy
- Kimball High School, West High School and Tracy High School, Administration and Staff
- Milpitas Police Dept., Sgt. Armando Corpuz
- City of Livermore, Mr. Stephen Riley, Principal Planner
- Facebook
- National Center for Equine Facilitated Therapy
- Tracy Fire Department
- San Joaquin County Office of Education
- DocuSign, Mrs. Nancy Treolo
- RE/MAX Diamond Realty
- Guide Dogs for the Blind
- Taylor Farms
- City of Sunnyvale Public Safety, Officer Gary Vierra and Staff
- Jefferson Schools
- The Photographic Arts Studio
- Solano County Department of Agriculture
- Work Force Development, Ms. Rebecca Bet-tencourt
- Boyett Construction
- Fremont Toyota
- Melo Construction
- The Photographic Art Studio
- Lawrence Livermore National Laboratory
- Art Expressions
- Alcatel-Lucent
- Superior Court, Alameda County
- Affordable Pet Vet Clinic
- Alvarez Farms
- Therapeutic Riding
- Abala Pharmacy
- United Airlines - SFO Airport
- West Coast Cryogenic Services

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# Agricultural- Scientific Academy

Friendship. Fulfillment. Connections



**TRACY**  
HIGH SCHOOL

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[https://tracyhigh.tracy.k12.ca.us/  
academics-programs/ag-science-  
academy](https://tracyhigh.tracy.k12.ca.us/academics-programs/ag-science-academy)

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# What is the Agricultural/ Scientific Academy?

The Academy is designed as an alternative program option at Tracy High School for students with a strong interest in science or agriculture. The Academy also helps students explore undecided career options. The goal of the program is to help students meet their individual educational goals.

Students in both science and agriculture will be intrigued by this program. The core classes of English, Social Studies and Science are loosely integrated to provide a continuity of learning and an appreciation of how science and agriculture impact their lives.

## The Academy offers to each student:

- 1) **a four year core curriculum** which integrates skills from various academic areas; and meets University of California A-G entrance requirements.
- 2) exposure to interesting careers through **Saturday Seminars**;
- 3) exploration of careers through **Job Shadowing**
- 4) a drawing together of skills which will be demonstrated through an **Academy Project and formal presentation**.

Students completing all the components of this flexible program will receive a bronze medallion and certificate of completion in addition to their high school diploma. Students will also have completed a professional portfolio which will highlight their accomplishments and skill.

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## Required Academy Courses

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### 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** are a blend of core classes and electives that reflect career and educational goals. Students choose from among the class options listed below or create a personalized pathway:

- **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.
  - **PERSONAL EDUCATIONAL PLAN**
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## PROGRAM SUPPORT

### *Study Sessions and 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.

Students needing more specialized help can request a student tutor through the Tutoring Program. Tutoring is available before and after school during the week.

### *Field Trips*

We try to have four class field trips each year, depending on funding. Previously, the freshman class traveled to the Academy of Sciences in San Francisco and the Juniors toured historic Alcatraz in San Francisco. In the spring, sophomore students attended a field trip to two Universities and the Senior Class visited historic sites in Sacramento or San Francisco.

## HOW TO APPLY

Application and selection is required to enroll in the Academy. This is a 4 year program; students are usually not admitted after freshman year. 2022-23 Applications will be available on the THS website. **Completed applications are accepted until 12/3/2021:**

- On our THS webpage: <https://tracyhigh.tracy.k12.ca.us/academics-programs/ag-science-academy>
  - We are allotted a limited number of Intra and/or Inter District Transfer seats for students who do not reside in the Tracy High School zone!
  - Follow the directions carefully!
- If you have any questions about the application process please call Merry Zimmermann, HS Administrative Secretary, 830-3360, Ext. 2080 or email [mzimmermann@tusd.net](mailto:mzimmermann@tusd.net)
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