

# Valley High School

Telephone Number: (916) 681-7576

<http://valleyhs.egusd.net>

## Health TECH Academy

Health TECH (Tomorrow's Employees in Careers in Health) is an innovative program that combines a rigorous college preparatory curriculum with advanced technology, student workplace experience, and direct contact with local health agencies to create a school-to-work educational experience for all students interested in health-related occupations. The Health TECH program ensures that students receive a solid foundation in workplace literacy and participate in specialized performance-based curricula that will prepare them to compete successfully in tomorrow's technological society.

All course content and integrated curricula have been designed to meet model curriculum standards and Elk Grove Unified School District graduation requirements, as well as university, college and community college entrance requirements.

Students must apply to participate in the Health TECH program. Applications may be obtained by contacting the counseling department at Valley High School. It is recommended that students apply for admission to the program for the following school year; however, applications are accepted continuously.

*Students enrolled in this academy must complete a sequence of Career Technical Education courses noted below as well as their core academic courses (e.g., English, mathematics, science, social science, etc.) as one cohort.*

### Health TECH Academy Programs of Study

**Industry Sector:** Health Science and Medical Technology

**Pathway:** Public and Community Health

Grade	Academic 1	Academic 2	Academic 3	CTE	Advocacy
9	English 9	Biology, Honors	Geometry, Honors	Health 9	Yes
10	English 10, Honors	Anatomy/Physiology	Algebra 2 Honors	Fundamentals of Public Health	Yes
11	AP English 11	Chemistry	Pre-calculus, Honors	Applied Public Health	Yes
12	AP English 12	Physics	AP Calculus A/B	Health 12	Yes

The CTE courses required for this academy are described below.

VALLEY HIGH SCHOOL  
**Health TECH Academy (continued)**

Course	Class Restrictions	Credits	Description
<b>Health TECH</b> Applied Public Health  <p style="text-align: right;"><b>Course #12409</b></p>	Junior	5	<p>This year-long course allows students to gain further knowledge in public health and to master the eight community health worker core competencies, leading to eventual Community Health Worker (CHW) certification. The course provides instruction through lectures, research projects, role plays, and field work and is designed to be taken by students as part of the Health TECH Academy. During the first semester, students will explore the various career opportunities within the healthcare industry. Students will build on their knowledge in public health by gaining a strong understanding of public health response to disease epidemics. Students will also build on their communication skills by designing and delivering a culturally-competent, culturally-relevant public health presentation to a cultural group in their community. Students who meet the requirements will be certified in CPR/First Aid. The second semester of this course is designed to allow students to apply their knowledge and skills in a variety of healthcare settings, including community and clinical settings. Students will master the art of motivational interviewing, allowing them to use their knowledge and skills to facilitate positive health change. Students will also develop their asset building/capacity building skills in a manner that promotes the betterment of their clients and the communities they serve. Students are required to meet minimum field work hours through community service at health fairs and other related events to be eligible for CHW certification.</p> <p><i>Prerequisite(s): Fundamentals of Public Health</i></p> <p><b>Adopted curricular materials:</b> <i>Health Science Fundamentals, Pearson</i></p>
<b>Health TECH</b> <b>Behavioral Health Theory and Practicum for the Community Health Worker</b>  <p style="text-align: right;"><b>Course #12419</b></p>	Senior	10	<p>This course is an introduction to psychology and community mental health, designed to provide community health workers with the knowledge to provide effective care and support to people who live with mental illnesses. Students will also explore careers in behavioral health. This year-long course will provide instruction through lectures, research projects, role plays, case studies, and field work and is designed to be taken by students as part of the Health TECH Academy. Students who meet the community health worker certification requirements are eligible to receive a supplemental certificate in community mental health.</p> <p><i>Prerequisite: Applied Public Health (recommended).</i></p> <p><b>Adopted curricular materials:</b> <i>Understanding Psychology, Glencoe</i></p>
<b>Health TECH</b> <b>Fundamentals of Public Health</b>  Valley High  <p style="text-align: right;"><b>Course #12408</b></p>	Sophomore	10	<p>This year-long course is designed to allow students to gain knowledge in public health, leading to eventual Community Health Worker (CHW) certification for candidates who fulfill CHW certification requirements. This course provides instruction through lectures, research projects, and field work and is designed to be taken by students as part of the Health TECH Academy. The first semester will provide foundational knowledge, in non-infectious and infectious diseases and advanced nutrition, which are necessary to organize community presentations and conduct field work at health fairs and other related events. Students will be expected to complete a group project in one area of nutrition. The second semester of this course is designed to provide students with the knowledge and understanding of the roles and core competencies of CHWs and their role in the healthcare delivery system. Students will gain research skills, hands-on skills, and presentations skills and will build critical thinking skills by analyzing various case studies. Students will gain knowledge and cultural competency and apply this knowledge through a group project called the Cultural Awareness Community Health Education (CACHE) Outreach Project.</p> <p><i>Prerequisite(s): Health</i></p> <p><b>Adopted curricular materials:</b> <i>Glencoe Health, McGraw Hill</i></p>

VALLEY HIGH SCHOOL  
**Health TECH Academy (continued)**

Course	Class Restrictions	Credits	Description
<b>Health TECH Health</b>  <b>Course #15000</b>	Freshman	5	<p>The course focuses on health promotion, disease prevention, and risk reduction. Units of study will include substance use and abuse, family life, nutrition, first aid/CPR (no CPR at Laguna Creek High School and limited at Valley High School), health related physical fitness, hygiene, mental health/self-esteem, and health-related careers. This course meets the health graduation requirement.</p> <p><b>Adopted curricular materials:</b> <i>Health</i>, Glencoe</p>
<b>Health TECH Health Careers 12</b>  <b>Course #12417</b>	Senior	5	<p>This course emphasizes human development, holistic and alternative health, and psychology. The psychological issues of health care and careers in the mental health field will also be explored. The final health careers class in the Health TECH program focuses on a comprehensive student project. Students will continue to receive advanced instruction in up-to-date medical issues not previously covered in the 10th and 11th grade classes. Students will be expected to complete an individualized project in the area of mental health. Using information gained in earlier health careers classes, as well as new material explored in this course, students will develop a thesis that presents a challenge in the mental health field and a course of action to meet that challenge. The thesis will include research, work-site experiences, community service and a public presentation. The course will emphasize problem-solving skills and community involvement. Work-site experiences and job shadowing will also be incorporated to assist the student in career guidance.</p> <p><i>Prerequisite(s): Applied Public Health.</i></p> <p><b>Adopted curricular materials:</b> No textbook assigned.</p>
<b>Health TECH Internship</b>  <b>Course #12418</b>	Junior Senior	5	<p>This course provides students with a variety of skills and opportunities related to healthcare. The internship can be taken during any class period with some projects and training completed outside the school day. Students in this course will run the Health TECH Academy newsletter, manage the annual Health and Fitness Expo and academy events, and work with professionals to find internships, community service opportunities, and other forms of assistance for the academy. Students will serve as peer coaches, helping academy students with tutoring or conflict resolution as needed. Students will also become familiar with all health screenings and trainings offered and will help assess/train other academy students. Finally, Health TECH Internship students will take their skills to the community by offering screenings at appropriate venues. This course is one means through which students can satisfy the work-based learning requirement for the Health TECH Academy.</p> <p><i>Prerequisite(s): Admission to the Health TECH Academy.</i></p> <p><b>Adopted curricular materials:</b> No textbook assigned.</p>

***For a description of academic courses, see Section 1.  
Please contact the school should you need further information.***

VALLEY HIGH SCHOOL  
**Air Force Junior Reserve Officer Training Corps**

Valley High School's Air Force Junior Reserve Officer Training Corps (AF JROTC) offers a series of Aerospace Science education courses, to include Drill and Ceremonies, a Summer Leadership School, an 8<sup>th</sup> period competitive Military Drill class (Honor Guard), and a Rifle Team, Drill Team, and Color Guard Team that perform in local events. There are also opportunities to participate in extracurricular activities such as NORCAL Softball, NORCAL Volleyball, NORCAL Basketball, NORCAL Fun Olympics, Model Rocketry, Honors Ground School and more.

Course	Class Restrictions	Credit	Description
<b>Aerospace Science I</b>  Course #16901	VHS only	10	This is an introductory course, which discusses the historical development of flight, the role of the military in U.S. history, the role of aerospace forces as instruments of national policy, and the composition of the aerospace community. The course also includes leadership and follower ship fundamentals, customs and courtesies, drill and ceremonies, time management, communications, and organization of the military.  <b>Adopted curricular materials:</b> <i>Leadership Education I</i> , McGraw Hill
<b>Aerospace Science 2</b>  Course #16902	VHS only	10	This course introduces a general study of the science of aeronautics and components of individual and group behavior. The topics of this course are: aerospace environment, meteorology, human requirements of flight, principles of flight and navigation, communication skills, understanding individual behavior, understanding group behavior, and basic leadership concepts.  <b>Adopted curricular materials:</b> <i>Leadership Education II</i> , McGraw Hill
<b>Aerospace Science 3</b>  Course #16903	VHS only	10	This course is designed to study our present military and civilian space systems and the social aspects of space. Leadership emphasis is on management, citizenship, and ethics. The topics of this course are: the space environment, space programs, space technology, manned space flight, introduction to management, managing things and ideas, citizenship, ethics, The United States Air Force, federal government employment, the aerospace industry, other opportunities in the aerospace industry, the enlisted force, the officer force, and military law.  <b>Adopted curricular materials:</b> <i>Leadership Education III</i> , McGraw Hill