

## Related Occupations

Medical Laboratory Aide  
Medical Laboratory Technician  
Medical Records Clerk  
Health Educator  
Health Services Administrator  
Hospital/Nursing Home Administrator  
Certified Nurse's Assistant  
EMT  
Medical Assistant  
Physical Therapy Aide  
Respiratory Therapy Aide  
Dental Hygienist  
Registered Nurse  
Pharmacy Technician  
Dentist  
Physical Therapist



Valencia High School

## Health Science Pathway

**Pathway Advisor:**  
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**California Industry Sector:**  
Health Science and Medical Technology

Valencia High School  
**Health  
Science  
Pathway**



**California Pathway:**  
Diagnostic Services, Health  
Informatics and Therapeutic Services

## Why Biotechnology, Patient Care, Public and Community Health, Mental and Behavioral Health Pathways?

The Applications of the Biotechnology pathway standards relate to occupations and functions relevant for understanding and solving bio-medical problems and creating products to improve the quality of human life. The standards represent knowledge and skills necessary to succeed in diverse careers in this pathway.

The standards for the Patient Care pathway apply to occupations or functions involved in the prevention, treatment, and management of illness and the preservation of mental and physical well-being through the services offered by the medical and allied health professions. The standards specify the knowledge and skills needed by professional and technical personnel pursuing careers in this pathway.

The Public and Community Health pathway standards apply to occupations or functions involved primarily in environmental health, community health and health education, epidemiology, disaster management, and geriatrics. The standards specify the knowledge and skills needed by professionals pursuing careers in this pathway.

The standards for Mental and Behavioral Health relate to occupations that assist clients on their journey toward better health. Collaborating with other departments as members of interdisciplinary teams of mental health professionals, such as psychiatrists, psychologists, registered nurses, and other disciplines, they assist with delivery of appropriate, quality treatment to patients with behavioral health concerns, psychological crises, and other biopsychological problems.

# Health Science Pathway

## Required Classes

- Chemistry A/B or AP Chemistry
- Biology or AP Biology
- First Aid / CPR Certification
- Career Exploration Project  
(Must be in Career Industry Sector)

### And 2 of the following

- AP Psychology
- Honors Human Anatomy
- Honors Molecular Genetics / Honors Microbiology
- Honors Advanced Chemistry (Nanoscience)
- Physics or AP Physics

### Optional Classes

(May take ONE of these in place  
Of one from above)

- ROP - Emergency Medical Responder (year long)
- ROP – Dental assistant (year long)
- ROP – Physical Therapy (year long)
- ROP—Forensics and Crime Scene Investigation (Beg/Adv.)
- ROP – Pharmacy Tech (year long)
- ROP – Body Systems and Disorders A/B (year long)
- ROP—Medical Sciences in Sports Medicine Beg (year long)

## Why Health Science and Medical Technology Industry Sector?

The standards in this sector represent the academic and technical skills and knowledge students need to pursue a full range of career opportunities in health science and medical technology, from entry level to management as well as technical and professional career specialties. The standards describe what workers need to know and be able to do to contribute to the delivery of safe and effective health care. The six career pathways are grouped into functions that have a common purpose and require similar attributes. The pathways are Biotechnology, Patient Care, Health Care Administrative Services, Health Care Operational Support Services, Public and Community Health, and Mental and Behavioral Health. Standards for each career path build on and continue the anchor standards with more complexity, rigor, and career specificity.

