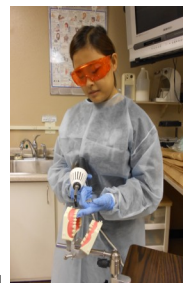


# OUR VISION

Welcome to the Medical Science Pathway. This program will prepare you to make a difference in the lives of others with hands on experience in the medical profession delivered by experts in their field. This program will also give you an academic and/or career advantage as you pursue your chosen career in the medical field. This unique program is available at Shasta High School.

## Highlights of the Program

Medical professionals delivering curriculum  
Job opportunities  
Internship opportunities  
Meets university A-G requirements  
Lab science courses with emphasis on medical science  
Classroom labs for CTE Dental, Medical Careers and Sports Medicine



## Best Jobs in Healthcare-2014

Forbes.com

Avg. salary in CA

Biomedical Engineer	\$106,390
Dental Hygienist	\$93,920
Occupational Therapist	\$89,620
Optometrist	\$108,220
Physical Therapist	\$91,330
Pharmacist	\$129,560
Respiratory Therapist	\$75,870
Physician Assistant	\$98,830
Registered Nurse	\$96,980

## Job Outlook

In the next decade, 21 of the top 30 fastest growing occupations will be in the medical field.

-U.S. Bureau of Labor Statistics

# MEDICAL SCIENCE PATHWAY



Shasta High School  
2500 Eureka Way  
Redding, CA 96001

# Course Descriptions

## Suggested Pathway Courses



- **Medical Biology, CP (9th or 10th)**
- **Honors Medical Chemistry (10th, 11th or 12th)**
- **AP Biology (11th or 12th)**
- **Physics, CP or AP (11th or 12th)**
- **Honors Anatomy and Physiology (11th or 12th)**

### Elective Options (schedule allowing)

- **CTE Intro to Medical Careers (11th or 12th)**
- **CTE Medical Clinical (12th)**
- **CTE Dental Careers (11th or 12th)**
- **CTE Sports Medicine (11th or 12th)**



**Medical Biology-** This college prep course deals with the study of living things, their structure, function, and interrelationship with man and the environment. Basic biochemistry, anatomy, physiology, ecology, genetics, evolution, and cell theory will be covered with a medical emphasis. Problem solving is emphasized in this laboratory oriented course. This class will extend nicely into the CTE Medical and Dental programs.

**Honors Medical Chemistry-** Chemistry is a study of the composition of matter and the transformation that it undergoes. In addition to the subject areas covered in general chemistry, Honors Medical Chemistry will cover additional units and there will be a strong emphasis on organic chemistry and how it applies to medicine. Honors Medical Chemistry will cover the material with an increase in scope and depth and a higher level of difficulty.

**AP Biology-** Advanced Placement Biology is a college level biology course designed to meet the need of students who are academically gifted or who achieve at a high academic level. The College Board Advanced Placement Biology Examination may be taken at the conclusion of the course. This is a general lab science course that will prepare pre-nursing/pre-med students for college level lab science study.

**Honors Anatomy and Physiology-** This year long course in human anatomy and physiology will be presented with medical emphasis. We will study basic chemistry, cells, tissues, and all human body systems. This laboratory course will also acquaint the student with some of the more common laboratory tools and procedures.

**CP-AP Physics-** Physics is the science of forces and matter and energy. Mechanics, specifically: measurement/motion, forces/vectors, curvilinear motion, energy/momentum, energy forms, namely: heat waves, sound, light and electricity will be covered. This is a general lab science course that will prepare pre-nursing/pre-med students for college level lab science study.

### **CTE Medical Science Pathway Courses (elective options)**

**CTE Intro to Medical Careers\*-** First year students are introduced to the health care field through intensive classroom training, hands-on labs and a variety of guest speakers.

**CTE Medical Clinical\*-** This is an intensive, hands-on course which offers a National Health-Care Assoc. cert. for students to become certified Patient Care Tech 's. Students will participate in year-long, clinical rotations throughout the year.

**CTE Sports Medicine\*-** The class provides a foundation in kinesiology, anatomy, and physiology for students interested in Sports Medicine and its related professions. Hands-on, lab-based course with certificate and internship opportunities.

**CTE Dental Careers\*-** Students spend their time in the classroom acquiring basic skills and knowledge related to Dental Assisting and have the opportunity to participate in community service activities and observe in dental offices.

**\*CTE program specific brochures can be found on our District website SUHSD.net →Departments →Instructional Services → Career and Technical Education**