



# Physician

**Career Goal (O\*NET Code):** Physician (29-1062), Pediatrician (29-1065), Anesthesiologist ((29-1061), Surgeon (29-10667).

**Cluster Overview:** The Health Science Cluster focuses on careers in planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

## SUGGESTED COURSEWORK

## EXTENDED LEARNING EXPERIENCES

<b>High School</b>	9th	<b>Core Courses:</b>	English I Algebra I Biology	World Geography Languages other than English I Health/PE or Equivalent	<b>Curricular Experiences:</b> Health Occupations Students of America STARS Research Program NASA Research Program	<b>Extracurricular Experiences:</b> Academic Decathlon UIL National Youth Leadership Forum on Medicine Medical Mission Trips Special Olympics	
		<b>Career-Related Electives:</b>	Introduction to Health Science Technology AND Medical Terminology				
	10th	<b>Core Courses:</b>	English II Geometry Chemistry	World History Languages other than English II Technology Applications			
		<b>Career-Related Electives:</b>	Health Science Technology I*** or Psychology				
	11th	<b>Core Courses:</b>	English III Algebra II Physics	United States History Communication Applications PE or Equivalent	<b>Career Learning Experiences:</b> Career Preparation (Paid/Unpaid) Job Shadowing Internship	<b>Service Learning Experiences:</b> Community Service Volunteer	
		<b>Career-Related Electives:</b>	Health Science Technology II* or Anatomy and Physiology of Human Systems or Precalculus or Languages other than English III				
	12th	<b>Core Courses:</b>	English IV AP Calculus Scientific Research and Design	Government/Economics Fine Arts			
		<b>Career-Related Electives:</b>	Health Science Technology III* or Medical Microbiology or Pathophysiology or Pharmacology or Clinical Nutrition or Gerontology or Mental Health or Psychology or Statistics or Languages other than English IV				
<b>Postsecondary</b>	<b>On-the-Job Training</b>	Medical Office Assistant  NOTE: These experiences may be started and/or completed as part of the high school experience.			<b>Career Options:</b> Medical Office Assistant	<b>Professional Associations:</b> American Medical Association Texas Medical Association Texas Osteopathic Medical Association American Podiatric Medical Association American Academy of Physician Assistants	
	<b>Certificates</b>	Medical Assistant OSHA CareerSafe  NOTE: Students may earn all or part of this certificate as part of the high school experience.					
	<b>Associate's Degrees</b>	Science Allied Health Care Medical Assistant					
<b>Bachelor's Degrees</b>	Degree of Choice with prerequisites for medical school Physician Assistant			<b>Career Options:</b> Physician Assistant			
<b>Graduate Degrees</b>	Doctor of Medicine Doctor of Osteopathy		Doctor of Chiropractic Doctor of Podiatric Medicine		<b>Career Options:</b> Podiatrist Chiropractor Physician Assistant Doctor of Medicine Doctor of Osteopathy	<b>Medical Specialties:</b> Allergy and Immunology Anesthesiology Dermatology Emergency Medicine Family Practice Forensic Medicine	Internal Medicine Genetics Neurology Obstetrics and Gynecology Ophthalmology Orthopedic Surgery Otolaryngology Pediatrics Plastic Surgery Psychiatry Radiology Radiation Oncology Surgery Urology

\* May substitute for the required credit for Physical Education  
\*\* Satisfies the required credit for Technology Applications  
\*\*\* May substitute for the required credit for Health Education

Students should take Advanced Placement (AP), International Baccalaureate (IB), dual credit, Advanced Technical Credit (ATC), or locally articulated courses, if possible.

This plan of study serves as a guide, along with other career planning materials, for pursuing a career path and is based on the most recent information as of 2007. All plans should meet high school graduation requirements as well as college entrance requirements. Students may select other elective courses for personal enrichment purposes.