



Therapeutic Services

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

High School	9th	Core Courses:	English I Algebra I Biology	World Geography Languages other than English I Health/PE or Equivalent	Curricular Experiences: Health Occupations Students of America STARS Research Program NASA Research Program	Extracurricular Experiences: Academic Decathlon UIL National Youth Leadership Forum on Medicine Medical Mission Trips Special Olympics		
		Career-Related Electives:	Introduction to Health Science Technology AND Medical Terminology					
	10th	Core Courses:	English II Geometry Chemistry	World History Languages other than English II Technology Applications				
		Career-Related Electives:	Health Science Technology I*** or Psychology					
	11th	Core Courses:	English III Algebra II Physics	United States History Communication Applications PE or Equivalent			Career Learning Experiences: Career Preparation (Paid/Unpaid) Job Shadowing Internship	Service Learning Experiences: Community Service Volunteer
		Career-Related Electives:	Health Science Technology II* or Anatomy and Physiology of Human Systems or Precalculus or Languages other than English III					
	12th	Core Courses:	English IV AP Calculus Scientific Research and Design	Government/Economics Fine Arts				
		Career-Related Electives:	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					
Postsecondary	On-the-Job Training	Medical Office Assistant NOTE: These experiences may be started and/or completed as part of the high school experience.			Career Options: Medical Office Assistant	Professional Associations: American Medical Association Texas Medical Association Texas Osteopathic Medical Association American Podiatric Medical Association American Academy of Physician Assistants		
	Certificates	Medical Assistant OSHA CareerSafe NOTE: Students may earn all or part of this certificate as part of the high school experience.						
	Associate's Degrees	15 hours of General Education Core						
Bachelor's Degrees	Degree of Choice with prerequisites for medical school Physician Assistant			Career Options: Physician Assistant				
Graduate Degrees	Doctor of Medicine Doctor of Osteopathy	Doctor of Chiropractic Doctor of Podiatric Medicine		Career Options: Podiatrist Chiropractor Physician Assistant Doctor of Medicine Doctor of Osteopathy	Medical Specialties: 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.