



# Therapeutic Services

**Career Goal (O\*NET Code):** Pharmacist (29-1051), Pharmacy Technician (29-2052).

**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 Language 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> National Youth Leadership Forum on Medicine Academic Decathlon UIL Medical Mission Trips
		<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***			
	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 Languages other than English III			
	12th	<b>Core Courses:</b>	English IV AP Statistics Scientific Research and Design	Government/Economics Fine Arts		
		<b>Career-Related Electives:</b>	Health Science Technology III* or Pharmacology or Pathophysiology or Independent Study or Languages other than English IV			
<b>On-the-Job Training</b>	Drug Store Clerk NOTE: These experiences may be started or completed as part of the high school experience.					<b>Professional Associations:</b> American Association of Colleges of Pharmacy American Society of Healthcare System Pharmacists National Association of Chain Drug Stores American Pharmaceutical Association
	<b>Certificates</b>	Pharmacy Technician OSHA CareerSafe NOTE: Students may earn this all or part of these certificates as part of the high school experience.			<b>Career Options:</b> Pharmacy Technician	
<b>Postsecondary</b>	<b>Associate's Degrees</b>	15 hours General Education Core including Anatomy & Physiology I and II (BIOL 2X01 AND BIOL 2X02) AND Microbiology (BIOL 2X20) AND Introductory Chemistry I (CHEM 1X06 or higher level equivalent) <b>Cluster Foundation</b> Medical Terminology I (HITT 1X05 OR MDCA 1X13 OR SRGT 1X01) OR Essentials of Medical Terminology (HPRS 1X06) Essentials of Medical Law & Ethics (HPRS 1X05) OR Legal & Ethical Aspects of Health Information (HITT 1X53) OR Medical Law & Ethics (MDCA 1X05) Introduction to Health Professions (HPRS 1X01) OR Basic Health Profession Skills (HPRS 1X04) Pathophysiology (HPRS 2X01) OR Human Disease/Pathophysiology (MDCA 1X02) Wellness (HPRS 1X02) <b>POS Specific Courses</b> Drug Classification (PHRA 1X05) Introduction to Pharmacy (PHRA 1X01) Pharmaceutical Mathematics I (PHRA 1X09) Pharmacy Law (PHRA 1X02) Pharmacy Drug Therapy and Treatment (PHRA 1X41) Community Pharmacy Practice (PHRA 1X13) Institutional Pharmacy Practice (PHRA 1X49) Clinical Practice (PHRA 1X6X) Intravenous Admixture and Sterile Compounding (PHRA 1X45)			<b>Career Options:</b> Pharmacy Technician	<b>Certificates, Licenses &amp; Credentials</b> American Society of Health- System Pharmacists Pharmacy Technician Certificate Institute for the Certification of Pharmacy Technicians Texas State Board of Pharmacy Registry
	<b>Bachelor's Degrees</b>	Biology Chemistry			<b>Career Options:</b>	
	<b>Graduate Degrees</b>	Doctorate in Pharmacy			<b>Career Options:</b> Pharmacist Nuclear Pharmacist Therapeutic Nutrition Systems Manager Pharmacy Practitioner Pediatric Specialists Oncology Specialists	

\* 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.