

# Lab Science

**Career Goal (O\*NET Code):** Clinical Laboratory Scientist (29-2011), Clinical Laboratory Technician (29-2012).

**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		SUGGESTED COURSEWORK		EXTENDED LEARNING EXPERIENCES		
High School	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>Career Learning Experiences:</b> Career Preparation (Paid/Unpaid) Job Shadowing Internship Apprenticeship	<b>Extracurricular Experiences</b> National Youth Leadership Forum on Medicine Medical Mission Trips Special Olympics  <b>Service Learning Experiences:</b> Community Service Volunteer
		<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		
		<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 Medical Microbiology or Pathophysiology or Independent Study or Calculus or Languages other than English IV				
Postsecondary	On-the-Job Training	Phlebotomist Histologic Technician	Laboratory Assistant		<b>Professional Associations:</b> American Society of Clinical Pathologists American Medical Technologist American Society of Clinical Laboratory Science National Accrediting Agency for Clinical Laboratory Science American Society for Cytotechnology American Society of Phlebotomy Technicians National Society for Histotechnology	
	Certificates	Phlebotomy OSHA CareerSafe	Medical Lab Technician	<b>Career Options:</b> Phlebotomist Laboratory Assistant Laboratory Technician		
	Associate's Degrees	Medical Lab Technology Histology Clinical Laboratory Technology		<b>Career Options:</b> Medical Laboratory Technician Histology Technician Clinical Laboratory Technician		
	Bachelor's Degrees	Medical Technology Biology Chemistry		<b>Career Options:</b> Clinical Lab Scientist Medical Technologist Forensic Scientist		
	Graduate Degrees	Medical Technology		<b>Career Options:</b> Histotechnologist Forensic Scientist Clinical Lab Management Research Scientist		
		* 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.		