



Diagnostic Services

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	9th	Core Courses:	English I Algebra I Biology	World Geography Languages other than English I Health/PE or Equivalent	<p>Curricular Experiences: Health Occupations Students of America STARS Research Program NASA Research Program</p> <p>Career Learning Experiences: Career Preparation (Paid/Unpaid) Job Shadowing Internship Apprenticeship</p>	<p>Extracurricular Experiences National Youth Leadership Forum on Medicine Medical Mission Trips Special Olympics</p> <p>Service Learning Experiences: Community Service Volunteer</p>
		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***			
	11th	Core Courses:	English III Algebra II Physics	United States History Communication Applications		
		Career-Related Electives:	Health Science Technology II* or Anatomy and Physiology of Human Systems or Languages other than English III			
	12th	Core Courses:	English IV AP Statistics Scientific Research and Design	Government/Economics Fine Arts		
		Career-Related Electives:	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	NOTE: These experiences may be started and/or completed as part of the high school experience.	<p>Professional Associations: 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</p>	
	Certificates	Phlebotomy OSHA CareerSafe	Medical Lab Technician	NOTE: Students may earn all or part of these certificates as part of the high school experience.		
	Associate's Degrees	15 hours General Education Core including Anatomy & Physiology (BIOL 2X01/2X02)				
		<p>Cluster Foundation 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) Pharmacology (HPRS 2X00 OR HITT 1X49) Wellness (HPRS 1X02) POS Specific Courses Introduction to Clinical/Medical Laboratory Science (MLAB 1X01) Clinical Chemistry (MLAB 2X01) Clinical Microbiology (MLAB 2X34) Coagulation (MLAB 1X27) Hematology (MLAB 1X15) Immunohematology (MLAB 2X31) Immunology/Serology (MLAB 1X35) Parasitology/Mycology (MLAB 1X31) Urinalysis and Body Fluids (MLAB 1X11) Phlebotomy (PLAB 1X23) Clinical (MLAB 2X6X)</p>				
Bachelor's Degrees	Medical Technology Biology Chemistry					
Graduate Degrees	Medical Technology					

* 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.