

# Medical Imaging

**Career Goal (O\*NET Code):** Radiologic Technologist and Technician (29-2034), Nuclear Medicine Technologist (29-2033).

**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> 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***					
	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 Pathophysiology or Independent Study or Calculus or Languages other than English IV					
<b>Postsecondary</b>	On-the-Job Training	Transport Aide  NOTE: These experiences may be completed as part of the high school experience.			<b>Career Options:</b> Radiation Therapy Technologist Radiographer Mammographer Diagnostic Medical Sonographer Nuclear Medicine Technologist	<b>Professional Associations:</b> American Society of Radiologic Technologists Society of Nuclear Medicine American Association of Medical Dosimetrists American Registry of Diagnostic Medical Sonographers		
	Certificates	OSHA CareerSafe  NOTE: Students may earn all or part of these certificates as part of the high school experience.						
	Associate's Degrees	Radiological Sciences Sonography Nuclear Medicine						
	Bachelor's Degrees	Radiologic Science						
	Graduate Degrees	Doctor of Medicine Master of Science Radiologic Science Nuclear Medicine						

\* 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.