



Radiography

Radiologic technologists are the medical personnel who perform diagnostic imaging examinations, including X-rays.

Radiologic technologists work closely with radiologists – the medical doctors who specialize in reading and interpreting images – and perform imaging examinations. Radiologic technologists are responsible for accurately positioning patients and ensuring that a quality diagnostic image is produced.

Radiologic technologists may specialize in specific imaging techniques such as bone densitometry, cardiovascular-interventional radiography, computed tomography, mammography, magnetic resonance imaging, nuclear medicine, quality management, ultrasound or general diagnostic radiography.



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Radiography Course Outline

Semester I (15 Weeks)					
Course #	Course	Theory	Lab	Extern	Credits
BIO 154	Anatomy and Physiology I	30			2.0
CCM 154	Communications	30			2.0
CMT 154	Medical Terminology	15			1.0
MTH 154	Algebra	45			3.0
RAD 145	Radiographic Physics	45			3.0
RAD 155	Positioning I	45	30		4.0
Semester I Total		210	30		15.0

Semester II (15 Weeks)					
Course #	Course	Theory	Lab	Extern	Credits
BIO 164	Anatomy and Physiology II	45			3.0
CLE 164	Medical Law and Ethics	30			2.0
RAD 165	Positioning II	45	30		4.0
RAD 175	Methods of Patient Care	45	8		3.0
RAD 185	Principles of Exposure	45			3.0
Semester II Total		210	38		15.0

Semester III (15 Weeks)					
Course #	Course	Theory	Lab	Extern	Credits
HST 205	Nevada History and US Constitution*	45			3.0
RAD 255	Advanced Imaging	30			2.0
RAD 265	Radiographic Biology	30			2.0
RAD 201	Clinical Externship I			420	9.0
Semester III Total		105		420	16.0

Semester IV (15 Weeks)					
Course #	Course	Theory	Lab	Extern	Credits
PSY 174	Introduction to Psychology	30			2.0
RAD 275	Pathology I	15			1.0
RAD 202	Clinical Externship II			420	9.0
Semester IV Total		45		420	12.0

Semester V (15 Weeks)					
Course #	Course	Theory	Lab	Extern	Credits
RAD 285	Pathology II	15			1.0
RAD 295	Image Quality and Analysis	45			3.0
RAD 203	Clinical Externship III			420	9.0
Semester V Total		60		420	13.0

Semester VI (15 Weeks)					
Course #	Course	Theory	Lab	Extern	Credits
RAD 299	Registry Review	45			3.0
RAD 204	Clinical Externship IV			420	9.0
Semester VI Total		45		420	12.0

Program Totals		630	68	1680	80.0
*Las Vegas Program Total		675	68	1680	83.0

What You Will Learn

As a student in Pima Medical Institute's Radiography program, you'll learn the necessary skills to accurately position patients, ensuring that a quality diagnostic image is produced. You will also be educated in anatomy, examination techniques, equipment protocols, radiation safety, radiation protection and basic patient care.

Job Outlook

According to the U.S. Bureau of Labor Statistics, overall employment of radiologic and MRI technologists is projected to grow 6 percent from 2023 to 2033, faster than average for all occupations. As the population grows older, there will be an increase in medical conditions that require imaging as a tool for making diagnoses.*

Employment

Hospitals are the primary employers of radiologic technologists, but a greater number of new jobs will be found in physicians' offices and diagnostic imaging centers.

Certification

Radiologic technologists are registered by the American Registry of Radiologic Technologists (ARRT). After obtaining your associate degree from Pima Medical Institute, you may apply to sit for this registry exam. Some states may require state certification. With additional training, a student who has passed the American Registry Exam can pursue other special modalities such as ultrasound, sonography, CAT scan, mammography, cardiovascular imaging, nuclear medicine or radiation therapy.

*Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, Radiologic and MRI Technologists, on the Internet at <https://www.bls.gov/ooh/healthcare/radiologic-technologists.htm> (visited January 11, 2025).



- Hands-on training
- Financial aid if qualified
- Career planning services