

NUCLEAR & IMAGING SPECIALIST

Nuclear & Imaging Specialists encompass the diagnostic imaging modalities of Radiography and Sonography. Careers under this umbrella include Radiologic Technology, Radiation Therapy, Medical Resonance Imaging, Diagnostic Medical Sonography, and Cardiovascular Technology. These medical professionals recreate a variety of images of different parts of the body for diagnostic and/or treatment purposes. These procedures can often include non-invasive tests that allow doctors to diagnose injuries and diseases.

CAREER DESCRIPTION* (Varies depending on career)

- » National typical salary: \$51,900-\$86,850
- » National projected career growth: 9-19%
- » Many work in either hospitals, physician offices, or outpatient centers

TYPICAL EDUCATION** (Includes undergraduate)

- » Radiologic Technologist: 2-4 years
- » Radiation Therapist: 4 years
- » MRI Tech: 4-5 years
- » Diagnostic Medical Sonography: 4-5 years
- » Cardiovascular Tech: 4-5 years
- » UNMC Average entering GPA: 3.55

UNMC AVERAGE ENTERING GPA**

- » Radiologic Technologist: 3.55
- » Radiation Therapist: 3.7
- » MRI Tech: 2.87-3.72
- » Diagnostic Medical Sonography: 3.0
- » Cardiovascular Tech: 3.0
- » UNMC Average entering GPA: 3.55

NEARBY SCHOOLS & CLASS SIZE

- » University of Nebraska Medical Center: 12-16
 - » Bachelor of Science in Medical Imaging & Therapeutic Sciences
- » CHI Health School of Radiologic Technology: 8 - 12
 - » Bachelor of Science in Radiologic Technology
- » Clarkson College: 30
 - » Associate of Science in Radiography
 - » Bachelor of Science in Medical Imaging
- » Nebraska Methodist College: 28
 - » Associate of Science in Radiologic Technology
 - » BS in Imaging Sciences

*For a full list of programs and degrees, please visit institution websites or contact the HCRC.

Data and information from Bureau of Labor Statistics.

**Data and information from UNMC.

AREAS OF SPECIALTY

- » Bone densitometry
- » Cardiovascular intervention
- » Computed tomography
- » Magnetic resonance
- » Mammography
- » Nuclear medicine
- » Quality management
- » Radiography
- » Sonography

TIPS FOR SUCCESS

- » Take a Medical Terminology course before applying
- » Obtain experience in health care
- » Shadow a professional in the field

WHAT PRACTICING PROFESSIONALS SAY



I love the radiography program at UNMC because we are exposed to a variety of different things including surgery, fluoroscopy, and diagnostic x-ray. This allows us to be a part of helping many people in the process of diagnosing injury or diseases."

-Nathaniel Deeds

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Click here for requirements from the schools listed below:

Prerequisites vary by program. Students are responsible for ensuring all entrance requirements are met.

University of Nebraska Medical Center	CHI Health	Clarkson College
Nebraska Methodist College	University of Iowa	

UNMC'S Prerequisites

S = Spring, F = Fall, M = Summer

Biological Sciences (minimum credits: 4)			
Course	Credits	Semester	Prerequisites
BIOL 1020 – Principles of Biology	4	S, F, M	High school Biology and Chemistry
OR			
BIOL 1450 – Biology I	5	S, F, M	High school Biology and Chemistry
OR			
BIOL 2440 – The Biology of Microorganisms	4	S, F, M	High school Biology and Chemistry
OR			
BIOL 2740 – Human Physiology & Anatomy I*	4	F, M	High school Biology and Chemistry

Physics (minimum credits: 4)			
PHYS 1050 – Introduction to Physics	4	S, F	High school Algebra

Math (minimum credits: 6)			
MATH 1220 – College Algebra	3	S, F, M	MATH 1210
OR			
MATH 1320 – Pre-Calculus Algebra	3	S, F, M	MATH 1220 or 1310
AND ONE OF THE FOLLOWING:			
BIOL 4110—Statistics for Biology	4	F	BIOL 1450 & BIOL 1750 and MATH 1220, 1130 or 1530
PSYC 3130 – Statistics for Behavioral Sciences	3	S, F, M	MATH 1120, 1220, 1310 or 1530
SOC 2130 – Social Statistics	3	S, F, M	MATH 1120, 1130, 1220, 1310 or 1530

English Composition (minimum credits: 6)			
ENGL 1150 or 1154 – English Composition I	3	F, S, M	AP score of 3 or by EPPE exam
ENGL 1160 or 1164 – English Composition II	3	F, S, M	ENGL 1150/1154 or AP score 4 or by EPPE

Speech (minimum credits: 3)		
CMST 1110 – Public Speaking Fundamentals	3	None

Social Science (minimum credits: 3)
Psychology, Sociology, Gerontology, Anthropology, Cultural Studies, Gender Studies, etc.

Recommended Courses			
BIOL 2840 – Anatomy and Physiology II*	4	S, M	BIOL 2740
BIOL 1160 – Medical Terminology -OR-	2	S, F, M	
HEKI 2000 – Medical Terminology	1	S, F, M	

* Anatomy and Physiology I and II are recommended for the Radiography program

Pass/Fail, credit by CLEP examinations, or Advanced Placement (AP) can only count for 6 credits.