

PRE-RADIOGRAPHY

Radiography is a medical imaging technique used to view internal structures of the human body and help diagnose and treat patients. Radiographers learn to operate equipment such as X-ray machines and CT scanners while also covering anatomy, radiation safety, and image analysis. There are many different career options with a Radiography degree, and some radiographers may specialize further in areas like mammography, sonography, MRI, or interventional radiology. Professionals in the field of radiography are usually required to take certification exams to become licensed or certified radiographic technologists.

The four routes you can choose from in the radiography field include:

1. Cardiovascular Interventional Technology (CVIT) – maps features of the vascular system, such as arteries and veins
2. Computed Tomography / Magnetic Resonance Imaging (CT/MRI) – creates images of parts of the body by mapping thin cross sections
3. Diagnostic Medical Sonography (DMS) – creates images of the body's organs and tissues via ultrasound, using high frequency sound waves
4. Radiation Therapy – treats diseases such as cancer using X-rays, gamma rays, or other forms of radiation

fast facts

Program details: This program is set up so you can take prerequisites at WSC before transferring to UNMC (or another school offering a Radiography program) to receive your B.S., if desired.

Department: Physical Sciences and Mathematics

School: Science, Health, and Criminal Justice

focus on results

Skills Learned

- Human anatomy and physiology
- Biological systems and structures
- General chemistry and physics
- Research, data collection, and analysis
- Modern lab techniques

Possible Careers

- Radiology technologist
- Cardiovascular intervention technologist
- X-ray technician
- Radiation therapist
- Sonographer / ultrasound technician
- MRI technician
- Diagnostic imaging specialist

Types of Employers

- Hospitals and medical clinics
- Radiology labs
- Health care facilities
- Medical research facilities
- Medical equipment companies
- Non-profit organizations

outside the classroom

Activities/Opportunities

- Research projects and conferences
- Rural Health Opportunities Program (RHOP)
- Peer mentoring and tutoring
- Service-Learning

Clubs/Organizations

- Biology Club
- Health Science Club



Visit www.wsc.edu/clubs to learn more about clubs and organizations on campus.



The following information is provided to guide you in the pre-professional program described on this sheet. Every effort is made to ensure this information is current, but please be aware that some content may have changed. To develop a plan for choosing a major and registering for courses, please consult the current academic catalog and your advisor.

Pre-Radiography program of study

For traditional students pursuing a bachelor's degree: You will take 60 hours of prerequisite courses at WSC in order to prepare for UNMC's general Radiography program. Once in the program at UNMC, you will take a licensure exam and earn your B.S. from UNMC. You can then apply for specialty training in the fields of CVIT, CT/MRI, DMS, or radiation therapy, to become certified in one of these specialty areas.

For incoming students with an associate degree who are not pursuing a bachelor's degree: You will take any needed prerequisite courses at WSC, then go on to UNMC for additional training to earn a specialty certificate in CVIT, CT/MRI, DMS, or radiation therapy. No B.S. is awarded in this case, only a certificate.

Sample courses

In addition to our General Studies program, students may be advised to take the following courses before transferring to UNMC's Radiography program. Please consult with your advisor to draft a complete plan of study, and be sure to check with UNMC to make sure you're meeting all prerequisite course requirements.

BIO 110 Biology Concepts.....	4
BIO 108 Medical Terminology.....	1
BIO 220 Human Anatomy.....	4
BIO 340 Human Physiology.....	4
CHE 106 General Chemistry I.....	4
CIS 130 Intro to Computer/Information Technology.....	3
HSC 345 CPR-Health Care Provider.....	1
PHY 201 General Physics I and PHY 321 Physics I Lab.....	4

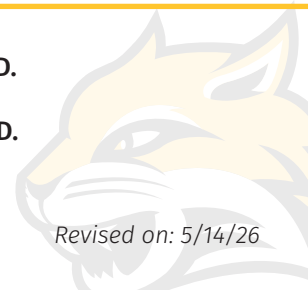
pre-radiography faculty



Visit www.wsc.edu/physical-sciences-mathematics-department to learn more about the Department Physical Sciences and Mathematics.

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