2023-24 Academic Year

PRE-RADIOGRAPHY

Radiography is an imaging technique used to view internal structures in the human body. Study radiography and you will make a career out of reading X-rays or computer-generated maps of what's inside the body. There are many different routes you can go with a Radiography degree. Wayne State partners with UNMC to offer an excellent education in radiography.

The four routes you can choose from 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

For traditional students pursuing a bachelor's degree: You will take 60 hours of prerequisite classes 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 a B.S. from UNMC. You can then apply for specialty training in CVIT, CT/MRI, DMS, or Radiation Therapy, and, if accepted, spend extra time at UNMC, receiving a certificate in one of these specialty areas in the end.

For incoming students with an associate's degree who are NOT pursuing a bachelor's degree: You will take any needed prerequisite classes 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.

fast facts

Transfer 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. Admission to programs at UNMC is competitive and not guaranteed.

Grades: C or better needed to begin professional training. Grades of C- are not acceptable.

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

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

Activities / Opportunities

- Research projects and conferences
- Peer mentoring and tutoring
- Service-Learning

Clubs / Organizations

- Biology Club
- Health Science Club

Sample program of study

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Every effort is made to ensure this information is current, but please be aware that some content may have changed. There is no substitute for developing a careful course registration plan in consultation with your advisor. The class sequence listed is suggested only. The final decision rests with the student and academic advisor.

Program Content: Pre-Radiography - UNMC

UNMC will accept a maximum of six College Level Examination Program or Advanced Placement semester hours. In addition, UNMC does not accept CLEP credits in math or science and will only accept a maximum of 3 CLEP credit or AP credit hours in English composition.

A minimum of 21 (50-60 preferred) semester hours needs to be completed in two years before transfer to UNMC. Some coursework can be completed during summer sessions, consult with your advisor. Courses generally available during the summer sessions include: BIO 220, BIO 340, CHE 107, MAT 180, PHY 201/321, and PHY 202/322.

College prerequisites, course requirements, and program requirements are subject to change by the radiation sciences program at UNMC.

Freshman - 1st semester

*BIO 110 Biology Concepts	4
CHE 106 General Chemistry I	4
*ENG 102 Composition Skills	3
HSC 345 CPR for Healthcare	1
*MAT 121 College Algebra	3

Freshman - 2nd semester

CIS 130 Intro to Computer/Information Technology	3
*CNA 100 Principles of Human Communication	3
*ENG 200 Expository Writing	3
*PSY 101 General Psychology	3
Electives by advisement (ART, BIO, CHE, CNA, ENG, MUS, PSY, PHI, SOC)	3

Sophomore - 1st semester

BIO 220 Human Anatomy	4
*PHY 201 General Physics I	3
*PHY 321 Physics I Lab	1
SOC 101 Intro to Sociology	3
~SPA 110 Elementary Spanish I	3

Sophomore - 2nd semester

BIO 340 Human Physiology	4
*MAT 180 Applied Probability and Statistics	3
BIO 108 Medical Terminology	1
Electives (BIO, CHE, PHY, ENG, HIS, PSY, SOC, GEO, PHI, ART, MUS) by advisement	5-7

*Required by UNMC (must earn a C or better)
~Spanish is suggested, or 3 hours of humanities (ENG, modern language, PHI, or CNA)

Program Content: Pre-Radiography 2-Year Program

Acceptance to a radiography program is competitive. Participation in this pre-professional program at WSC does not guarantee acceptance at the institution selected for completion of professional training.

Freshman - 1st semester

BIO 110 Biology Concepts	4
ENG 102 Composition Skills	3
MAT 121 College Algebra	3
PSY 101 General Psychology	3
Computer electives (choose one of the following):	
CIS 130 Intro to Computer/Information Technology	3
CIS 231 Microcomputer Software	1-3
CIS 232 Spreadsheet Software	1-3

Freshman - 2nd semester

CHE 106 General Chemistry I	4
CNA 100 Principles of Human Communication	3
PSY 230 Lifespan Development	3
SOC 101 Intro to Sociology	3
**SPA 110 Elementary Spanish I	3

**Suggested elective UNMC

pre-radiography faculty

Visit www.wsc.edu/psm to learn more about the Department Physical Sciences and Mathematics.

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