

# PRE-DIAGNOSTIC MEDICAL SONOGRAPHY (DMS)

Diagnostic medical sonography (DMS) is an imaging technique that creates images of the body's organs and tissues via ultrasound, using high-frequency sound waves. Wayne State partners with UNMC to offer an excellent education in radiography.

**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
- Evolutionary processes
- Biological systems and structures
- General chemistry and physics
- Research, data collection, and analysis
- Modern lab techniques

### Possible Careers

- Sonographer / ultrasound technician
- Cardiac sonographer
- Echocardiographer
- Radiology technologist
- 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
- Peer mentoring and tutoring
- Service-Learning

### Clubs / Organizations

- Biology Club
- Health Science Club



Visit [www.wsc.edu/clubs](http://www.wsc.edu/clubs) to learn more about clubs and organizations on campus.

# Sample program of study

2021-22 Academic Year

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.

Upon completion of the radiography primary program, the student may apply to any of the second or advanced certificate radiation sciences programs.

UNMC will accept a maximum of 6 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.

Applicants for this program must have achieved a minimum 2.5 undergraduate GPA and a 3.0 GPA (on a 4.0 scale) in their professional training in radiography.

Program requirements are subject to change by the radiation science program at UNMC.

## Freshman - 1st semester

BIO 110 Biology Concepts.....	4
CHE 106 General Chemistry I.....	4
ENG 102 Composition Skills.....	3
MAT 121 College Algebra.....	3

## Freshman - 2nd semester

BIO 220 Human Anatomy.....	4
CIS 130 Intro to Computer/Information Technology.....	3
CNA 100 Principles of Human Communications.....	3
+NAT 421 Scientific Communication.....	3
PSY 101 General Psychology.....	3

+Or 2 hours of Medical Terminology (not offered at WSC)

## Sophomore - 1st semester

ENG 200 Expository Writing.....	3
MAT 180 Applied Probability and Statistics.....	3
PHY 201 General Physics I.....	3
PHY 321 Physics I Lab.....	1
*SPA 110 Elementary Spanish I.....	3
Elective by advisement.....	3

\*Suggested elective meets UNMC humanities or social sciences prerequisites.

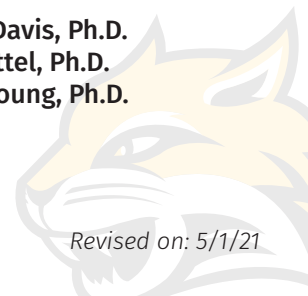
## pre-diagnostic medical sonography faculty



Visit [www.wsc.edu/psm](http://www.wsc.edu/psm) to learn more about the Department Physical Sciences and Mathematics.

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