



Study Radiography at Minnesota State College Southeast in Winona

The Radiography Program at Minnesota State College Southeast equips students with educational experiences within a classroom and clinical setting and prepares them for a rewarding career in medical imaging.

Radiographers perform x-ray imaging in hospitals, clinics, and advanced medical imaging centers, working directly with other health care teams in providing diagnostic radiology services in a range of clinical settings including surgery and trauma. They work closely with radiologists, the physicians who interpret medical images for diagnosis. Administering ionizing radiation, the radiographer produces images of any designated body part, including bones, joints, and internal organs. Emphasis is placed on radiation protection and quality patient care. The radiographer instructs and positions patients, manipulates x-ray equipment, selects appropriate exposure factors, provides radiation protection for the patient and self, processes images, evaluates radiographic image quality, and carries out quality control activities. Radiographers play a key role in the medical team and work in many areas outside the Radiology Department including surgery, emergency/trauma department, cardiac and intensive care and patient rooms.

Successful students in the Radiography program must demonstrate an aptitude for math and science in order to handle the strenuous curriculum and grasp the theories and knowledge of the profession. It takes hard work and determination to become a radiographer, along with a sincere desire to help people who are ill or injured and to use highly technical equipment in a clinical health care setting. Students will be expected to handle stressful situations and make multiple decisions regarding patient care during clinical course work. Student radiographers must be in good emotional and physical health. This profession requires a significant amount of physical body movement in assisting patients and the use of radiographic equipment. Students with certain chronic health problems may face many challenges due to the physical demands of the profession and may be less successful in carrying out required duties. For a list of essential physical abilities, see Admission Process and Checklist Packet pages 7-8.

You can look forward to one-on-one attention from excellent faculty. The program is housed on the Winona campus and the state-of-the-art energized x-ray laboratory offers computed radiography and direct digital technology. You will be well trained in all aspects of the appropriate use of technology and caring for the needs of patients.

There are many opportunities to advance beyond Diagnostic Radiology and students will be given an opportunity to observe many modalities while in the program. Medical imaging modalities include Computed Tomography, Magnetic Resonance Imaging, Breast Imaging, Bone Densitometry, Cardiac/Vascular Interventional Procedures, Quality Management, Medical Sonography, Nuclear Medicine Technology, Radiation Therapy, and Radiologist Assistant. The last four listed will require an additional one to four years of education.

How the Radiography Program Works

The Radiography Program is a 5 consecutive semester, 21-months, 69 credit program in which academic and clinical courses are offered. Approximately 20 new students are accepted each fall. Admission is based on GPA and other requirements (see Applicant Scoring Tool on page 8). The 1st, 3rd and part of the 5th semesters are spent on campus, taking required courses and working in the laboratory. During the 2nd, 4th, and the other part of the 5th semesters, students travel off campus to attend clinical assignments where they work alongside registered technologists with real patients as they put into practice what they have learned the previous semester. Clinical assignments consist of approximately 36 hours per week. Clinical sites are within 120 miles of Winona and transportation and other expenses are the responsibility of the student. The student must plan part-time jobs and/or other life commitments around educational responsibilities. Success in the program should be a top priority.

- Curriculum Sequence – See Page 5
- Clinical Setting Affiliates – See Page 6-7

Graduates will earn an Associates of Applied Science (A.A.S.) degree & will be eligible to take the national certification examination in Radiography by the American Registry of Radiologic Technologists (ARRT) after all course work & clinical competencies have been met. Students may choose to seek employment as an entry-level radiographer or continue their education in an advanced field of study.

Program Accreditation

Minnesota State College Southeast's Radiography program is accredited by the Joint Review Committee on Education in Radiologic Technology for 8 years (<http://jrcert.org/>), the only agency recognized by the United States Department of Education (USDE) and the Council for Higher Education Accreditation (CHEA), for the accreditation of traditional and distance delivery educational programs in radiography, radiation therapy, magnetic resonance, and medical dosimetry. They may be contacted at: JRCERT, 20 N. Wacker Drive, Suite 900, Chicago, IL 60606-2901 Phone: 312.704.5300, Fax: 312.704.5304, Email: mail@jrcert.org. The program complies with the JRCERT Standards for an accredited educational program in the radiologic sciences.

Program Effectiveness Data

Minnesota State College Southeast's Radiography Program has the total capacity to enroll 40 students. That generally comprises 20 students in each class. The JRCERT, our accrediting body, sets this number based on the

number of clinical sites, retention rate, pass rate, and job placement within one year of graduation. These criteria are averaged over a five-year period. You can [download a PDF](#) compiling 5 years of Radiography Program Effectiveness Data from the college's website.

Employment Outlook

According to US Bureau of Labor Statistics Occupational Outlook Handbook of 2022 the overall employment of radiologic and MRI technologists is projected to grow 6 percent from 2022 to 2032, faster than the average for all occupations. ([Job Outlook, 2022-32](#))

Program Mission Statement

Southeast Radiography program strives to be the educator of choice in providing patient-centered, professional, high-quality education to equip graduates to achieve excellence and integrity in the medical imaging community and to be life-long learners. To learn more, view the [Radiography Program Student Success Manual](#).

Equal Employment and Educational Opportunity

The College is committed to providing and promoting equal employment and educational opportunities, and supporting a positive environment, for all persons without regard to race, sex, color, creed, religion, age, national origin, marital status, disability, status with regard to public assistance, sexual orientation, or membership or activity in a local commission as defined by law.

State of Minnesota Background Study

Minnesota Law requires any person who provides a service that involves direct contact with patients and residents in health care facilities licensed by the Minnesota Department of Health to have a background study conducted by the state. An individual who is disqualified from having direct patient contact as a result of a background study, and whose disqualification is not set aside by the Commissioner of Health, will not be permitted to participate in a clinical placement in a Minnesota-licensed health care facility. Failure to participate in a clinical placement required by the academic program will result in ineligibility to qualify for a degree in the program.

Students may review the following link which outlines the types of disqualifying crimes and/or contact the program director. <https://www.revisor.mn.gov/statutes/?id=245C.15>

ARRT Background Study

When determining eligibility for taking the Radiography certification examination, the American Registry of Radiologic Technologists (ARRT) requires that the applicant be of good moral character. Conviction of a crime, including a felony, a gross misdemeanor with the sole exception of speeding and parking violations is considered to be in violation of the Standards of Ethics. Such violations must be cleared by the ARRT before the applicant can be assigned to an examination.

The ARRT Ethics Pre-Application Review is reserved for those who are not enrolled in an ARRT-recognized education program, or are more than six months until graduating from an ARRT-recognized education program.

<https://www.arrt.org/>

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Radiography (AAS) Curriculum Sequence

<u>Course</u>	<u>Course Title</u>	<u>Credits</u>	<u>Total Credits 69</u>
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These courses must be taken prior to any RAD courses. All credits count towards the Radiography Major.

ENGL1215	College Writing I or equivalent	3	
BIOL2515	Anatomy and Physiology I	4	
MATH1220	College Algebra or equivalent	<u>3</u>	
		10	

Year 1:

1. Fall:

RADT2601	Introduction to Radiologic Sciences	4	
RADT2605	Radiographic Imaging I	3	
RADT2611	Radiographic Positioning and Procedures 1	5	
BIOL2516	*Anatomy and Physiology II	<u>4</u>	
		16	

2. Spring:

RADT2617	Clinical Practicum I (12 weeks--36 hours/week)	9	
RADT2663	Modalities (online) (4 days-clinical observation)	2	
	*Social Sciences requirement (online)	<u>3</u>	
		14	

3. Summer:

RADT2625	Radiographic Positioning and Procedures II	3	
	*Humanities Requirement	<u>3</u>	
		6	

Year 2:

4. Fall:

RADT2642	Clinical Practicum II (16 weeks--36 hours/week)	12	
RADT2635	Radiographic Pathology (online)	<u>1</u>	
		13	

5. Spring:

RADT2631	Radiographic Imaging II (hybrid)	3	
RADT2620	Equipment Operation & Maintenance (12 weeks)	2	
RADT2650	Radiation Protection and Biology (12 weeks)	2	
RADT2673	Clinical Practicum III (4 weeks--36 hours/week)	<u>3</u>	
		10	

* 2000 level General Education courses required unless specified

RADT2686	Sectional Anatomy	3	Elective
RADT2680	Introduction to Mammography	2	Elective
RADT2660	Computed Tomography	2	Elective

The College reserves the right to change courses titles, content, & credit structure. Students with a documented disability may request classroom/lab accommodations by notifying instructors and a college counselor. Revised 9/15/15

Clinical Setting Affiliates and Telephone Numbers

<p>Ashley Wellness Center-Gundersen Health 625 W Main Street, Arcadia, WI 54612 Distance from Winona: 25.2 miles – about 34 minutes</p>	<p>Clinic Main (507) 457 5160</p>
<p>Gundersen Health System 1900 South Avenue, La Crosse, WI 54601 Distance from Winona: 30 miles – about 35 minutes</p>	<p>Hospital Main (608) 782 7300 Dept. Direct (608) 775 2503</p>
<p>Gundersen Health System-Decorah Clinic 1830 State Hwy 9, Decorah, IA 52101 Distance from Winona: 66 miles---about 1 hour 17 minutes</p>	<p>Clinic Main (563)382-3140 Dept. Direct ext. 75651</p>
<p>Gundersen Tri-County Hospital & Clinics 18606 Ervin Street, Whitehall, WI 54773 Distance from Winona: 41.6 miles – about 54 minutes</p>	<p>Hospital Main (715) 538 4355 Dept. Direct (715) 538 4361</p>
<p>Gundersen Health System-Viroqua Clinic 407 S Main St, Viroqua, WI 54665 Distance from Winona: 59 mi – about 1 hour 15 minutes</p>	<p>Clinic main (608) 637-3195</p>
<p>Gundersen Health System –Winona 1122 W Hyw 61, Winona, Mn 55987 Distance from Winona: 0.8 mi – about 3 minutes</p>	<p>Clinic 800-362-9567 extension 23304</p>
<p>Gundersen Health System-St. Elizabeth’s Hospital of Wabasha INC 1200 Grant Blvd. W. Wabasha, MN 55981 Distance from Winona: 36 mi-about 40 minutes</p>	<p>Hospital main <u>(651) 565-4531</u></p>
<p>Guttenberg Municipal Hospital 200 Main Street, Guttenberg, IA 52052 Distance from Winona: 117 mi – about 2 hours 21 minutes</p>	<p>Hospital main (563) 252 1121 Dept. direct (563) 252 5552</p>
<p>Mayo Health System-Cannon Falls 32021 County Road 24 Blvd., Cannon Falls, MN 55009 Distance from Winona: 92 mi – about 1 hour 30 minutes</p>	<p>Dept. direct (507) 263 4221</p>
<p>Mayo Clinic Health System - Lake City 500 West Grant St, Lake City, MN 55041 About 50 miles from Winona</p>	
<p>Mayo Health System –Red Wing 701 Hewitt Boulevard, Red Wing, MN 55066 Distance from Winona: 67.4 mi – about 1 hour 15 minutes.</p>	<p>Hospital main (651) 267 5000 Dept. direct (651) 267 5250</p>
<p>Olmsted Medical Center – Rochester, MN 1650 4th St SE, Rochester, MN 55904 About 45 miles from Winona</p>	
<p>Palmer Lutheran Health Center 112 Jefferson St., West Union, IA 52175 Distance from Winona: 89.5 mi – about 1 hour 50 minutes</p>	<p>Dept. Direct (563) 422 9741</p>
<p>Tomah Memorial Hospital 501Gopher Drive, Tomah, WI 54660 Distance from Winona: 65.1 miles – about 1 hour 7 minutes</p>	<p>Dept. direct (608) 377 8247</p>
<p>Veterans Memorial Hospital/Gundersen Clinic – Waukon, IA 105 East Main Street; Waukon, IA 52172 About 70 miles from Winona</p>	
<p>Winneshiek Medical Center 901 Montgomery Street, Decorah, IA 52101 Distance from Winona: 66 mi – 1 hour 23 minutes</p>	<p>Hospital main (563) 387 2911 Dept. direct (563) 387 3022</p>

Winona Health 855 Mankato Ave, Winona, MN 55987 Distance from Winona: 0.8 mi – about 3 minutes	Hospital main (507) 454 3650 or Department direct (507) 457 4320
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Radiography Program Applicant Scoring Tool

This form will be used by the admissions staff of Minnesota State College Southeast to determine applicant's ranking for admission to the Radiography program. *It is provided on an informational basis only; you need not fill it out or return with your application.*

Applicant Name _____

GPA
 4.0- 3.5-----20 points
 3.49 – 3.0---- 15 points
 2.99- 2.50---- 10 points
 2.49- 2.0-----5 points

BIOL2511 (A & P I)
 A ----- 3 points
 B ----- 2 points
 C ----- 1 point

*BIOL2515 (A&P II)
 Yes _____
 No _____

MATH1220 (College Algebra or equivalent)
 A ----- 3 points
 B ----- 2 points
 C ----- 1 point

ENGL1215 (College English or equivalent)
 A ----- 3 points
 B ----- 2 points
 C ----- 1 point

Patient Care Experience
 Yes ----- 1 point
 No ----- 0 points

Current Southeast Student
 Yes ----- 10 points
 No ----- 0 points

	Results	Score
<u>GPA (OVERALL)</u>	-----	
<u>BIOL 2515(GRADE)</u>	-----	
<u>BIOL 2516*(GRADE)</u>	-----	N/A
<u>College Algebra or equivalent 1220 or equivalent (GRADE)</u>	-----	
<u>College English or equivalent 1225 or equivalent (GRADE)</u>	-----	
<u>Patient Care Experience (SCORE)</u>	-----	
<u>Current Southeast Student</u>	-----	
<i>*optional</i>		
		<u>Total</u> _____

Accepted _____
 Denied _____

Revised 6/18/24