

Midwestern State University Bachelor of Science in Radiologic Sciences (BSRS) Online Degree Completion Program: Student Handbook

Robert D. and Carol Gunn College of Health
Sciences and Human Services
The Shimadzu School of Radiologic Sciences
Written: July 2026

Note: This handbook is for use by students in the Bachelor of Science in Radiologic Sciences (BSRS) Program and contains specific information about this online, degree-completion program. For general Midwestern State University policies, see the Midwestern State University student handbook and catalog. The information in this handbook is current as of the date it is posted. However, this manual may be revised or amended upon written notification to the student. No revision or amendment will be retroactive; instead, it will take effect on the date of student notification. The Chair of Radiologic Sciences will make the final interpretation of program policies and procedures.

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Part I: Program Overview and Accreditation

Introduction

Purpose of the BSRS Program

The Bachelor of Science in Radiologic Sciences (BSRS) at Midwestern State University is an online degree-completion program designed specifically for working radiologic technologists seeking to advance their education and career prospects.¹ The program provides both lateral and upward mobility for professionals who are unable to attend traditional on-campus classes, offering a flexible and accessible pathway to a bachelor's degree.² All professional courses (those with a RADS prefix) are delivered entirely online and must be taken from Midwestern State University.¹ This program is structured to build upon the foundational knowledge and skills of certified technologists, preparing them for advanced roles in leadership, education, and specialized clinical practice.

It is critical to distinguish this program from the university's entry-level track. The BSRS program is NOT for entry-level students seeking to become radiographers for the first time.¹ Individuals who are not yet certified and are seeking initial qualification in the field should pursue the Bachelor of Science in Radiologic Technology (BSRT) program.¹

Program Philosophy

The philosophy of the BSRS program is centered on the unique needs of adult learners and working professionals. The program design recognizes that the most effective way to serve certified technologists is to provide a high-quality, rigorous academic experience in a fully online format that accommodates professional and personal commitments.¹ The curriculum is structured to honor the extensive clinical experience and certification already achieved by its students, focusing on advanced concepts in research, healthcare law, quality management, and pathophysiology to elevate their professional practice and critical thinking skills.³ By offering a robust online learning environment, the program empowers technologists from diverse geographic locations to achieve their educational goals and assume greater responsibilities within the dynamic healthcare landscape.³

Mission, Goals, and Student Learning Outcomes

BSRS Mission Statement

The mission of the BSRS program is to prepare American Registry of Radiologic Technologists (ARRT)-registered technologists (or those with equivalent certification) for advanced certification and to enable them to assume greater responsibilities in the profession.²

Program Goals and Student Learning Outcomes

The BSRS program is designed to achieve specific goals that translate into measurable outcomes for its graduates. These goals reflect the program's commitment to fostering advanced practitioners, critical thinkers, and leaders within the radiologic sciences. The educational objectives are not focused on entry-level clinical competence, but rather on the higher-order skills necessary for career advancement.

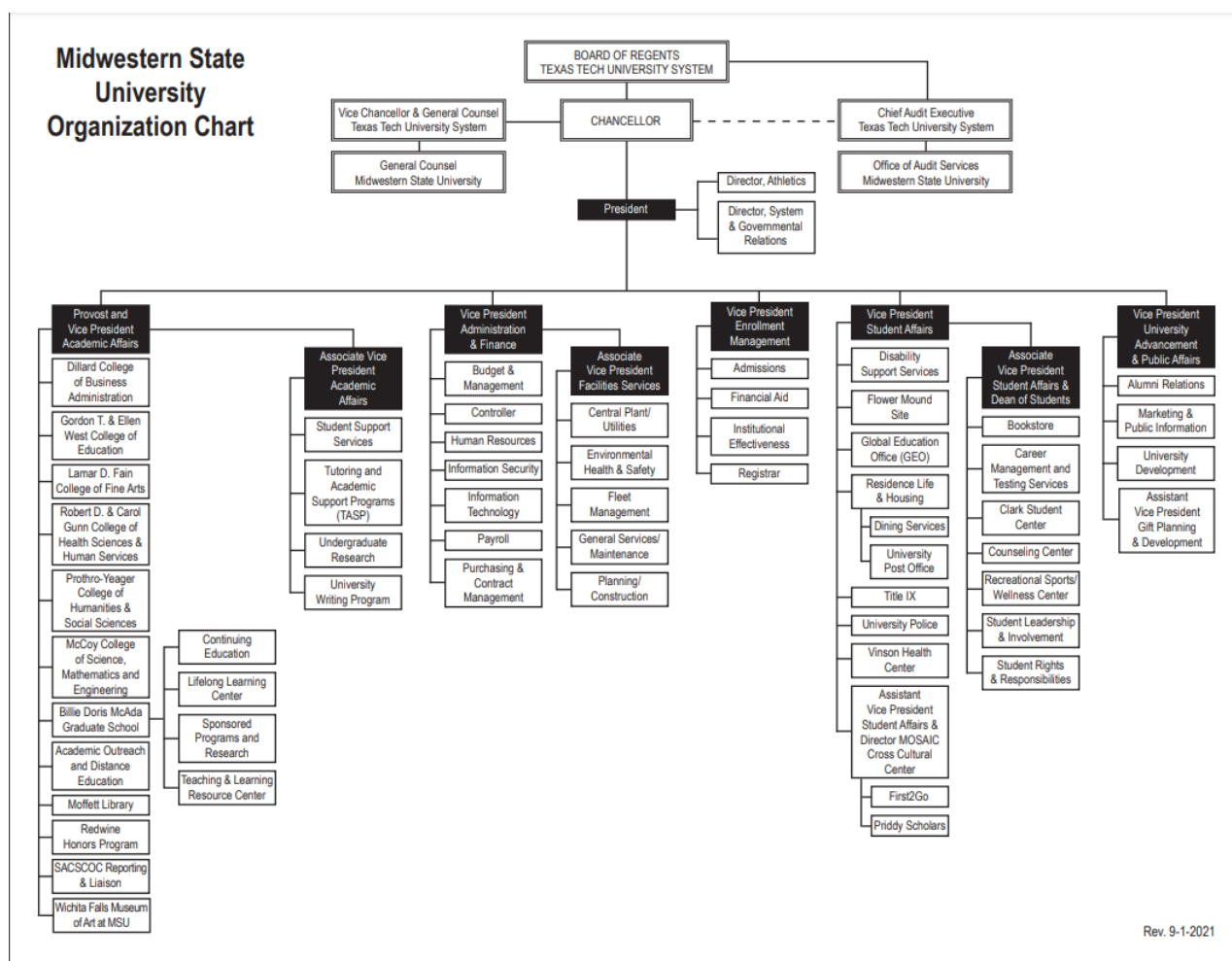
GOALS	STUDENT LEARNING OUTCOMES
Graduates will be prepared for clinical advancement.	Students will apply advanced clinical skills in medical imaging procedures, ensuring patient safety and adherence to best practices in diverse healthcare settings.
Graduates will possess critical thinking skills.	Students will demonstrate the ability to tailor patient interactions to individual needs, preferences, and conditions, ensuring a compassionate and patient-centered approach to care.
Graduates will demonstrate professionalism.	Students will evaluate and apply ethical principles and legal standards in medical imaging to ensure compliance with regulatory guidelines, maintain patient confidentiality, and uphold professional integrity in clinical decision-making.
Graduates will demonstrate effective communication skills	Students will demonstrate effective verbal, nonverbal, and written communication skills with patients, healthcare teams, and other stakeholders, ensuring clear, accurate, and compassionate exchanges that enhance patient care and interdisciplinary collaboration in the medical imaging environment.
Graduates will possess critical thinking skills.	Students will interpret clinical information from electronic health records to support appropriate imaging decisions and patient care planning.

GOALS	STUDENT LEARNING OUTCOMES
Graduates will be prepared for clinical advancement.	Students will evaluate workflow strategies across imaging environments to enhance quality of care and operational efficiency.

Program Structure and Faculty

Organizational Chart

The BSRS program is housed within the Shimadzu School of Radiologic Sciences, part of the Robert D. and Carol Gunn College of Health Sciences and Human Services at Midwestern State University.⁸

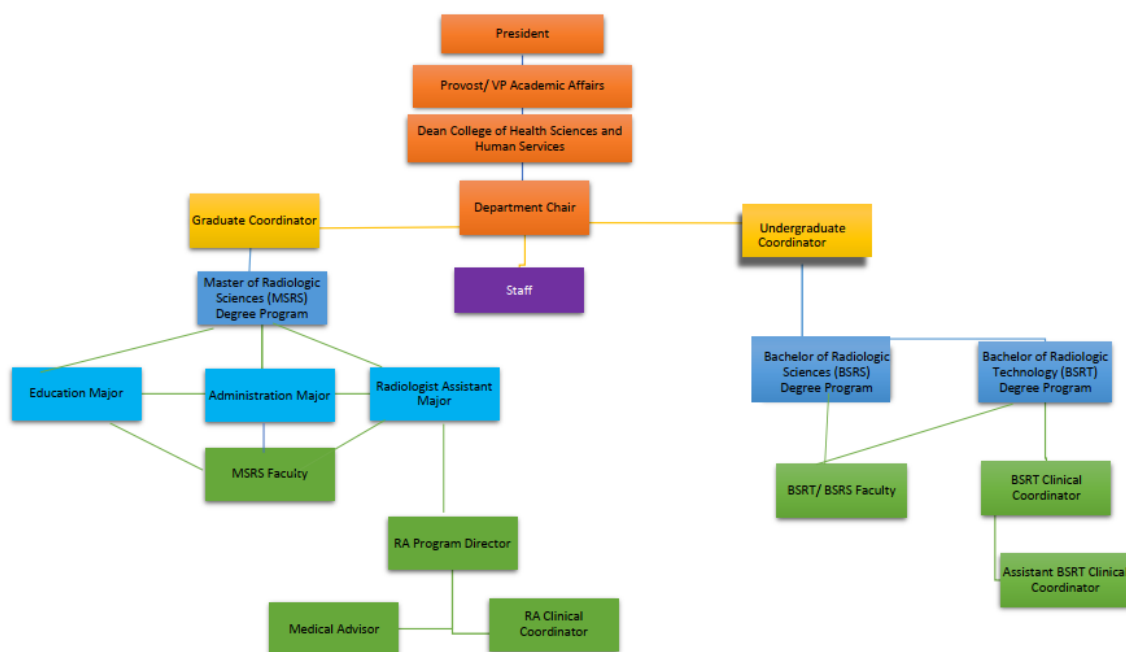


Rev. 9-1-2021

Text description of the Midwestern State University organizational chart: The Texas Tech University System Board of Regents and Chancellor sit at the top. The Chancellor is supported by a Vice Chancellor & General Counsel and a Chief Audit Executive, and oversees the MSU President. The President oversees Athletics and System & Governmental Relations directly, and is supported by five vice presidents: the Provost & Vice President for Academic Affairs (who

oversees the university's colleges, including the Robert D. and Carol Gunn College of Health Sciences and Human Services, along with research, library, and academic support units); the Vice President for Administration & Finance; the Vice President for Enrollment Management; the Vice President for Student Affairs; and the Vice President for University Advancement & Public Affairs.

The Shimadzu School of Radiologic Sciences Organizational Chart



Text description of the Shimadzu School of Radiologic Sciences organizational chart: The MSU President oversees the Provost/Vice President for Academic Affairs, who oversees the Dean of the College of Health Sciences and Human Services, who oversees the Department Chair. The Department Chair oversees Staff, the Graduate Coordinator, and the Undergraduate Coordinator. The Graduate Coordinator oversees the Master of Radiologic Sciences (MSRS) Degree Program, which encompasses the Education, Administration, and Radiologist Assistant majors and the MSRS Faculty; the Administration and Radiologist Assistant majors also connect to the Radiologist Assistant (RA) Program Director, who oversees the Medical Advisor and the RA Clinical Coordinator. The Undergraduate Coordinator oversees both the Bachelor of Radiologic Sciences (BSRS) Degree Program and the Bachelor of Radiologic Technology (BSRT) Degree Program. The BSRS program shares BSRT/BSRS Faculty with the BSRT program. The BSRT program is also supported by a BSRT Clinical Coordinator, who oversees an Assistant BSRT Clinical Coordinator.

Program Faculty and Contact Information

The same dedicated and experienced faculty who teach in the on-campus programs also teach in the online BSRS program, ensuring a consistent standard of academic excellence. Students are encouraged to communicate with faculty regarding their coursework and academic progress.

Name	Title	Email Address	Extension
Dr. Lynette Watts, Ph.D., RT(R)	Department Chair, Professor	lynette.watts@msutexas.edu	4833
Courtney Akvan, MHS, (RT)(CI)(VI)	Assistant Professor	courtney.akvan@msutexas.edu	4339
Dr. Vicki Dillard, DHSc, RRA, RT(R)(CT)(CV)	Professor	victoria.dillard@msutexas.edu	4083
Dr. Rodney Fisher, Ph.D., RT(R)(N)(CT)(BD), CNMT	Associate Professor	rodney.fisher@msutexas.edu	4615
Dr. Kimberly Onstott, Ed.D., RT(R)(CT)(MR), MRSO(MRSC)	Associate Professor/ Advanced Modalities Coordinator	kimberly.onstott@msutexas.edu	4332
Mandy Sedden, MSRS, RT(R)	Assistant Professor/ Undergraduate Coordinator	mandy.sedden@msutexas.edu	4664
Shanna Tole, MSRS, RT(R)	Assistant Professor	shanna.tole@msutexas.edu	4338
Dr. Ludie Tyran, Ed.D., RT(R)(M)	Associate Professor	ludie.tyran@msutexas.edu	4571
Kelsey Wilt, MSRS, RT(R)(CT)	Assistant Professor	kelsey.wilt@msutexas.edu	3256
Debra Wynne, MSRS, RT(R)	Assistant Professor	debra.wynne@msutexas.edu	4608
Roxanne Conyers, RT(R) CNMT	Radiologic Science Secretary	Radiology.program@msutexas.edu	4337

Regional Accreditation (SACS-COC)

Midwestern State University is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) to award associate, baccalaureate, and master's degrees.⁸ This institutional accreditation ensures that the university, as a whole, meets rigorous standards of quality and is eligible for federal programs, including student financial aid. It signifies that Midwestern State University has "a purpose appropriate to higher education and has resources, programs, and services sufficient to accomplish and sustain that purpose".⁸

Programmatic Accreditation (JRCERT)

The Shimadzu School of Radiologic Sciences' entry-level program (BSRT) is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).⁸ While the BSRS degree-completion program does not require separate programmatic accreditation, its existence within a JRCERT-accredited school signifies a commitment to the highest standards in radiologic science education. The principles and standards upheld for JRCERT accreditation inform the quality and integrity of all programs within the school. Students have the right to report any program infractions of JRCERT standards and may inspect accreditation documents through the Program Chair.⁸

Structured Education ARRT

Post-Primary Certification & ARRT Structured Education Alignment

The BSRS program curriculum is designed not only to advance students' clinical acumen but also to provide a direct pathway toward post-primary ARRT certifications.

To sit for a post-primary registry, the ARRT requires completion of 16 hours of structured education aligned with specific content specifications. Additionally, candidates must document the required number of clinical experience repetitions. The BSRS program offers dedicated tracks and elective coursework that satisfy these 16-hour structured education requirements.

ARRT Structured Education Requirements Overview

To meet the ARRT standard, structured education must:

- Be completed within the 24 months prior to submitting a post-primary application.
- Cover portions of each major category of the ARRT content specifications for that specific modality (Patient Care, Safety, Image Production, and Procedures).
- Reflect at least one CE credit (or academic equivalent) in each required category.

Modality Pathway Mapping

The matrix below illustrates how advanced coursework in the BSRS curriculum fulfills the structured education distribution for each post-primary pathway.

Post-Primary Modality	Primary BSRS Coursework Alignment	Core ARRT Content Areas Covered
Computed Tomography (CT)	RADS 4703 - Principles of Computed Tomography RADS 4783 - Computed Tomography Applications	• Patient Care (Contrast Media, Radiation Safety) • Image Production (Artifacts, Protocols) • Procedures (Head, Spine, Body, Musculoskeletal)
Magnetic Resonance Imaging (MR)	RADS 4743 - Magnetic Resonance Imaging RADS 4773 - Magnetic Resonance Imaging Applications	• Patient Care (MR Safety, Screening) • Image Production (Sequence Design, Data Acquisition) • Procedures (Neurological, Body, MSK)
Mammography (M)	RADS 4753 – Mammography RADS 4763 - Mammographic Quality Practice	• Patient Care (Communication, Patient Assessment) • Image Production (Instrumentation, QC Standards) • Procedures (Positioning, Anatomy, Pathology)
Vascular Interventional (VI)	RADS 3823- Interventional Imaging and Equipment RADS 4843 Vascular Interventional Procedures & Pathology	• Patient Care (Aseptic Technique, Pharmacology) • Image Production (Digital Fluoroscopy, Radiation Safety) • Procedures (Angiography, Venography, Non-Vascular)
Cardiac Interventional (CI)	RADS 3823- Interventional Imaging and Equipment	• Patient Care (Emergency Medications, Monitoring)

Post-Primary Modality	Primary BSRS Coursework Alignment	Core ARRT Content Areas Covered
	RADS 4833- Cardiac Interventional Procedures and Pathology	• Image Production (Dose Optimization, Hemodynamic Systems) • Procedures (Coronary Angiography, Interventions, Conduction)

Structured Education Documentation

Important Note for Graduation Tracking: While the university tracks your academic credits for degree completion, documenting structured education or continuing education for the ARRT is an independent professional responsibility of the student.

To verify structured education when applying for an ARRT post-primary registry exam, or when logging CE credits for ARRT CE compliance, students should complete the following steps:

1. Retain Course Syllabi: Keep a digital copy of the course syllabus for every advanced modality course. The ARRT may request a syllabus to audit content compliance.
2. Log Credits via the ARRT Online Account: Students should use their ARRT online account to log the completed academic courses.
 - a. One semester credit hour is equivalent to 16 ARRT CE credits.
 - b. A single 3-credit academic course may satisfy the 16-hour total requirement when the course covers all required content categories.
 - c. For continuing education credits, a standard 3-credit radiology academic course yields 48 CE credits.
 - d. When applying or documenting, students must also request an official university transcript to be sent to the ARRT to prove successful completion of the course, as a syllabus alone does not prove credit was earned.
3. Coordinate Clinical Documentation: Students should use clinical rotations to document the mandatory clinical repetition requirements via their ARRT online account.

Students pursuing multiple post-primary pathways should consult with the academic advisor early in the program to map out an elective sequence and ensure optimal scheduling.

Professional Standards

ASRT Practice Standards and ARRT Standards of Ethics

As a program for working professionals, the BSRS expects all students to adhere to the professional standards governing the field. This includes the American Society of Radiologic Technologists (ASRT) Practice Standards for Medical Imaging and Radiation Therapy, as well as the ARRT Standards of Ethics.⁸ These documents delineate the parameters of practice, define ethical conduct, and serve as the foundation of professional accountability.

Part II: Academic and University Policies

General University Policies

Students in the online BSRS program are members of the Midwestern State University community and are subject to all applicable university policies. The following policies are particularly relevant to all students, regardless of their mode of instruction. Please refer to the current [Midwestern State University Handbook](#) for more information.

Disability Support Services

In accordance with Section 504 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, Midwestern State University is committed to providing reasonable accommodations to ensure equal opportunity for qualified persons with disabilities. Students seeking accommodations must register with [Disability Support Services](#). This office provides information, arranges accommodations, and serves as a liaison for students and instructors.⁸ For more information, please contact disabilityservices@msutexas.edu (940) 397-4140

Anti-Discrimination Statement

Midwestern State University is an equal opportunity institution and does not discriminate against any individual on the basis of race, religion/creed, color, sex, age, national origin, or disability in any of its programs and policies.⁸

Sexual Harassment Policy

It is the policy of Midwestern State University that no member of the university community may sexually harass another. This policy applies to all interactions, including those that occur in an online environment. The policy is presented in detail in the Midwestern State University Student Handbook.⁸

Substance Abuse/Drug Policy

The university affirms that illegal drug use is unlawful and harmful. The complete Midwestern State University policy can be found in the Student Handbook. While this policy is university-wide, it is particularly important for healthcare professionals to understand that any drug-related offense can have severe consequences for their professional licensure and career.⁸

Hardware and Software

Students must own or have consistent access to a reliable computer that meets the university's minimum specifications for online learning.

- Computer: A modern desktop or laptop computer is required. It must be equipped with a webcam, microphone, and speakers to participate in activities that may use virtual classrooms, video conferencing (e.g., Zoom, Teams), or proctored exams.¹⁰
- Prohibited Devices: Chromebooks are not compatible with essential software, such as Respondus Lockdown Browser, and should not be used for this program. Using a Chromebook may prevent a student from taking required online exams or participating in online activities.⁴

Software: Students can sign up for free access to the web edition of Microsoft Office 365. **The BSRS program only accepts files in .doc or .docx format.**

Internet Access

Reliable, high-speed internet access is a mandatory requirement for admission to and continued success in the BSRS program.³ Students are expected to have an internet connection that can support streaming video, uploading and downloading large files, and participating in real-time online sessions without interruption.

Browser and System Compatibility

To ensure full functionality within the online learning environment, students must use a supported web browser.

- Recommended Browsers: Google Chrome, Microsoft Edge, Apple Safari, or Mozilla Firefox are the recommended browsers for the best experience with the learning management system (LMS).
- Browser Settings: JavaScript and Cookies must be enabled in the browser for the LMS to function correctly.

- System Check: Before beginning coursework, all students should perform a system check to ensure their computer and browser are configured properly for the LMS. Students can access this tool through the university's [online education website](#).

Student Records and Privacy (FERPA)

Midwestern State University maintains accurate and confidential student records in compliance with the Family Educational Rights and Privacy Act (FERPA) of 1997. This federal law protects the privacy of student education records. The university will not release student records to a third party without the student's prior written consent, except as permitted by law. Students have the right to review their educational records and request corrections of any inaccuracies.

Academic Honesty

Honesty and integrity are foundational to both academic inquiry and the healthcare professions. All students enrolled in the Radiologic Science Program at Midwestern State University are expected to abide by the Student Honor Creed: "As a Midwestern State University student, I pledge not to lie, cheat, steal, or help anyone else do so."⁸

Any instance of academic dishonesty will result in disciplinary action, which may range from a failing grade on an assignment or in the course to dismissal from the BSRS program and the university. For specific information, see the course syllabus and the [Academic Dishonesty Policy and Procedures process in the Midwestern State University Student Handbook](#)

Academic Dishonesty:

Cheating, collusion, and plagiarism (the act of using source material of other persons, either published or unpublished, without following the accepted techniques of crediting, or the submission for credit of work not the individual's to whom credit is given.

Additional guidelines on procedures in these matters may be found in the [Office of Student Rights and Responsibilities](#).

Cheating

A. The term "cheating" includes, but is not limited to:

1. using unauthorized assistance when taking quizzes, tests, or examinations;
2. dependence upon the aid of sources beyond those authorized by the instructor in writing papers, preparing reports, solving problems, or carrying out other assignments; or (3) the acquisition without permission of tests or other academic material belonging to a member of the university, faculty, or staff.

B. Plagiarism includes, but is not limited to, paraphrasing or directly quoting another person's published or unpublished work without full and clear acknowledgment. It

also includes the unacknowledged use of materials prepared by another person or agency engaged in the selling of term papers or other academic materials.

- C. The term “collusion” means collaboration with another person in preparing work offered for credit if that collaboration is not authorized by the faculty member in charge.

Plagiarism

Plagiarism, the act of presenting the words or ideas of another as one's own without proper attribution, is a serious academic offense. In an online environment, this includes but is not limited to:

- Copying and pasting text from websites or articles without citation.
- Submitting work generated by artificial intelligence (AI) when prohibited by the instructor.
- Turning in another student's work, whether from a current or previous course.
- Paraphrasing from a source without providing appropriate documentation.⁸

Generative AI

- Ensure work is original: Students must submit their own work. Submitting machine-generated text as original writing, without disclosure or permission, may be treated as plagiarism, unauthorized assistance, or another academic integrity violation.
- Treat the syllabus as the final authority: Policies on generative AI vary widely by professor, department, and assignment. If a syllabus does not address AI, students must ask the instructor for clarification.

Disclosure

When AI is permitted, students must disclose its use. Instructors who allow AI expect students to disclose the specific tool used, the prompts or queries entered, and how the information was incorporated into the output (e.g., brainstorming, outlining, grammar checking, code suggestions). Because formatting requirements vary by class, students should consult the Citations and GenAI page for detailed citation guidelines.

Verification

Students must verify everything an AI tool produces before submission. Generative AI tools routinely produce realistic-looking but fabricated facts, statistics, quotations, sources, and citations. Because students have faced academic sanctions for submitting papers with non-existent citations, individuals must treat every fact, quote, and citation generated by AI as unverified until the student verifies it against a real, accessible source.

Documentation

Students must keep records of their AI use. If a generative AI tool is used at any point during the research or writing process, students should save chat transcripts, screenshots, draft versions, or any other records provided by the tool. If questions arise

regarding how work was produced, contemporaneous records (drafts, revision histories, chat logs, working notes, etc.) serve as essential evidence.

Part III: BSRS Program Policies and Progression

Program Admission Criteria

The BSRS program is designed for certified professionals. Candidates must apply to both Midwestern State University and the BSRS Program to be considered for admission. The following criteria must be met :

- **University Admission:** Candidates must be eligible for and admitted to Midwestern State University.
- **GPA:** Candidates must have a cumulative GPA of 2.0 or higher on all postsecondary coursework.
- **Professional Certification:** Candidates must hold a primary certification and remain in good standing with the ARRT, NMTCB, or ARDMS.
- **TSI Compliance:** Candidates must satisfy all Texas Success Initiative (TSI) requirements.
- **Technology:** Candidates must have reliable high-speed internet access and a working email address.

The application process involves submitting all required materials to the Midwestern State University Admissions Application.

Provisional Admission for Pre-Certification Students

Students who are in the final year of a JRCERT-accredited (or equivalent) entry-level program at another institution may be considered for provisional admission. This pathway acknowledges that many aspiring technologists wish to begin their baccalaureate education concurrently with completing their initial certification.

Until they pass their primary certification exam (ARRT, NMTCB, or ARDMS), provisionally admitted BSRS students need written permission from their Program Director to take courses. Approved students may take either one 3-hour course per semester or up to three BSRS core/advanced modality courses total. Full program admission is granted once proof of certification is submitted.

The student's current Program Director must email the Radiologic Sciences secretary, Roxanne.conyers@msutexas.edu to acknowledge that the student is approved to enroll in the Midwestern State University BSRS Program.

Advanced Placement and Transfer Credits

The BSRS program structure is built on a foundational respect for the professional education and certification students bring. This is formally recognized through a generous advanced placement and transfer credit policy.

Advanced Placement for Certification

Upon verification of a current and valid primary professional certification from the ARRT, NMTCB, or ARDMS, the university awards students 42 semester credit hours of advanced placement credit. This block of credit is equivalent to more than a full year of academic coursework and represents the university's acknowledgment of the rigorous, college-level learning inherent in achieving professional certification.

Application of Block Credit: This 42-hour block credit specifically satisfies lower-level degree requirements (classes designated below the 3000 level). Please note that this block of lower-level credit does not transfer as, nor can it be used to substitute for, upper-level coursework (classes designated at the 3000 level and above).

Students with a primary certification from the American Registry of Magnetic Resonance Imaging Technologists (ARMRIT) may be awarded this credit upon review and approval of the BSRS coordinator.

Advanced Standing for Additional Certifications

In addition to the 42-hour block for primary certification, students who hold existing advanced-modality certifications may receive up to 6 additional credit hours of advanced standing.

A technologist already certified in one of the following may receive credit for the corresponding course in the BSRS curriculum:

- Bone Densitometry (BD),
- Certified Imaging Informatics Professional (CIIP),
- Certified Radiologic Administrator (CRA)
- Computed Tomography (CT),
- Cardiac Interventional (CI),
- Cardiovascular (CV),
- Mammography (M),
- Magnetic Resonance Imaging (MR, or ARMRIT)
- Nuclear Medicine (N or CNMT),
- Quality Management (QM),
- Radiation Therapy (T),
- Registered Cardiac Invasive Specialist (RCIS),
- Sonography (S or ARDMS),
- Vascular Interventional (VI),

If a student earns a post-primary certification after being admitted to the BSRS Program, the BSRS coordinator may award credit upon reviewing the certification and approving the request.

Transfer of General Education Courses

Students may complete required general education (non-professional) courses at Midwestern State University or transfer them from other recognized or accredited institutions. Students are strongly encouraged to work with their academic advisor to ensure that courses will transfer appropriately to their BSRS degree plan. The university provides a Transfer Equivalency Self-Service tool to assist in this process.¹⁶ A minimum of 30 semester hours must be completed at Midwestern State University to satisfy the university's residency requirement.⁹

Academic Standards and Program Progression

To remain in good standing and progress through the BSRS program, a student must earn a grade of 'C' (2.0) or better in all RADS professional courses required for graduation.³ Students who do not meet this standard in a required RADS course must repeat the course.

BSRS Graduation Requirements

To earn the BSRS degree, students must meet the following requirements:

- Complete a minimum of 120 total semester credit hours.
- Successfully complete all Academic Foundations and Core Curriculum requirements.
- Successfully complete all BSRS Professional Core and Elective courses with a grade of 'C' or better in each course.
- Complete a minimum of 30 semester hours in residence at Midwestern State University.
- Complete a minimum of 33 advanced-level (3000-4000 level) semester hours.
- File an official application for graduation by the published deadline.

Part IV: Curriculum and Degree Plan

BSRS Degree Requirements

The BSRS degree is a 120-semester-hour program composed of three main components:

1. General Education Core Courses: 42 semester hours.
2. Advanced Placement Credit: Up to 42 semester hours awarded for professional certification.
3. BSRS Professional Curriculum: 36 semester hours of advanced online coursework.

Midwestern State University General Education Core Courses (42 Semester Hours)

Students must complete the university's required core curriculum. These courses may be completed at Midwestern State University or transferred from another recognized or accredited institution. The core categories include ⁶:

- Communication (6 hours)
- Mathematics (3 hours)
- Life & Physical Sciences (6 hours)
- Language, Philosophy & Culture (3 hours)
- Creative Arts (3 hours)
- American History (6 hours)
- Government/Political Science (6 hours) with Texas Government requirement
- Social & Behavioral Science (3 hours)
- Component Area Options (6 hours)

Professional Curriculum (36 Semester Hours)

The professional component of the BSRS degree consists of 24 hours of required core courses and 12 hours of professional electives. All courses are offered online.

Midwestern State University BSRS Professional Core Courses (24 Semester Hours)

All BSRS students are required to complete the following eight courses, which provide an advanced academic foundation in areas critical to leadership and expanded practice in the radiologic sciences ³

- RADS 3203 - Pathophysiology
- RADS 3213 - Advanced Clinical Practice Skills
- RADS 3503 - Research
- RADS 3773 - Radiobiology and Radiation Protection
- RADS 4123 - Data Analysis
- RADS 4633 - Quality Improvement in Medical Imaging
- RADS 4643 - Health Law in Medical Imaging
- RADS 4733 - Sectional Anatomy

BSRS Professional Elective Courses (12 Semester Hours)

Students must select four courses (12 semester hours) from a comprehensive list of professional electives. This allows students to tailor their degree plan to their specific career interests. The list of electives explicitly includes the courses that form the basis of the Advanced Modalities Certificate Programs.³

BSRS Curriculum Summary

Professional Core (All Required)

(Course credit given for Post-primary certifications)

- RADS 3203- Pathophysiology
- RADS 3213- Advanced Clinical Practice Skills
- RADS 3503- Research
- RADS 3773- Radiobiology and Radiation Protection
- RADS 4123- Data Analysis
- RADS 4633- Quality Improvement in Medical Imaging (QM)
- RADS 4643- Health Law in Medical Imaging
- RADS 4733- Sectional Anatomy

Professional Electives (Choose Four)

(Course credit given for Post-primary certifications)

- RADS 3313- Radiation Therapy (T)
- RADS 3823- Interventional Imaging and Equipment
- RADS 3833- Bone Densitometry (BD)
- RADS 4513- Administration and Supervision in Medical Imaging (CRA)
- RADS 4533- Informatics in Medical Imaging (CIIP)
- RADS 4543- Pediatric Medical Imaging
- RADS 4701- Advanced Modalities Clinical Education
- RADS 4703- Principles of Computed Tomography (CT)
- RADS 4743- Magnetic Resonance Imaging (MR)(ARMRIT)
- RADS 4753- Mammography (M)
- RADS 4763- Mammographic Quality Practice
- RADS 4773- Magnetic Resonance Imaging Applications
- RADS 4783- Computed Tomography Applications
- RADS 4803- Introduction to Nuclear Medicine (NM)(CNMT)
- RADS 4813- Teaching Strategies in Imaging Sciences
- RADS 4833- Cardiac Interventional Procedures and Pathology (CI) (RCIS) or (CV)
- RADS 4843- Vascular Interventional Procedures and Pathology (VI) or (CV)
- RADS 4853- Essentials of Forensic Medical Imaging
- RADS 4863- Essentials in Teaching in Imaging Sciences
- RADS 4913- Applied Research
- RADS 4933- Independent Studies in Advanced Medical Imaging
- RADS 4943- Specialized Modalities in Medical Imaging (S)(ARDMS)

Part V: Advanced Modalities Certificate Program

Overview of Advanced Modality Studies

The Shimadzu School of Radiologic Sciences offers several Advanced Modalities Certificate Programs that provide registered technologists with the structured education required for eligibility for post-primary ARRT certification examinations.¹⁴ These certificate programs in Computed Tomography (CT), Magnetic Resonance Imaging (MRI), and Mammography (M) can be pursued concurrently with the BSRS degree or as standalone, non-degree-seeking options.¹⁴

Program Pathways

There are two distinct pathways for the advanced modality programs. Courses may be taken:

- **Concurrent with the BSRS Degree:** This is the most common pathway for BSRS students. The required courses for a specific modality certificate are taken as the professional electives within the BSRS degree plan. Upon graduation, the student earns both the BSRS degree and the advanced modality certificate.
- **Non-Degree Seeking Certificate:** This pathway is for technologists who already possess a bachelor's degree (or do not wish to pursue one at this time) but want to obtain the structured education for an advanced modality. These students apply to the university as "Non-degree Seeking Students" and enroll only in the courses required for the certificate. **Non-Degree Seeking students do not qualify for financial aid.** Students may later apply completed certificate courses toward a BSRS degree.

Available Certificate Programs

Each certificate program consists of a specific set of fully online courses designed to cover the content specifications of the corresponding ARRT post-primary examination.

- **Computed Tomography (CT) Certificate:** Requires completion of the following courses²¹:
 - RADS 3213 - Advanced Clinical Practice Skills
 - RADS 4733 - Sectional Anatomy
 - RADS 4703 - Principles of Computed Tomography
 - RADS 4783 - Computed Tomography Applications
- **Magnetic Resonance Imaging (MRI) Certificate:** Requires completion of the following courses²²:
 - RADS 3213 - Advanced Clinical Practice Skills
 - RADS 4733 - Sectional Anatomy
 - RADS 4743 - Magnetic Resonance Imaging
 - RADS 4773 - Magnetic Resonance Imaging Applications

- Mammography Certificate: Requires completion of the following courses ¹⁸
 - RADS 4753 - Mammography
 - RADS 4763 - Mammographic Quality Practice

Clinical Experience Requirements

The responsibility for completing clinical requirements in the advanced modality programs rests with the student.

Students must secure a clinical site and complete and document the clinical experience and competency requirements mandated by the ARRT. Technologists may complete their clinical requirements at their current place of employment or at another clinical facility. While the responsibility for arrangement lies with the student, Midwestern State University can assist with potential clinical sites.

Part VI: Student Conduct and Grievance Procedures

Professional Conduct and Communication

The Radiologic Sciences department expects students to maintain professional behavior at all times. In the BSRS program's online environment, this expectation extends to all forms of digital communication.

- Netiquette: Students are expected to demonstrate respect for the views and opinions of others in all interactions, including discussion boards, email, and virtual meetings. Communication should be courteous, constructive, and free of inappropriate or foul language.⁸
- Professional Communication: All written communication should use correct English and grammar. Students are expected to check their official Midwestern State University email daily for announcements and other program information.⁸
- Appropriate Use of Social Networking: Students must remember that they represent Midwestern State University and the radiologic sciences profession in all public forums. Sharing patient information online, even when anonymized, constitutes a serious violation of the Health Insurance Portability and Accountability Act (HIPAA) and may result in immediate dismissal from the program. Inappropriate electronic content that does not reflect the professional behavior expected of students may warrant disciplinary action.⁸

Complaint and Grievance Policies

The university has established processes by which students may address issues or complaints. Students are encouraged to first follow the informal process before initiating a formal grievance.

- **Informal Grievance Process:** The student should first take their problem or question to the course faculty instructor. If a resolution cannot be reached, the matter may be brought to the attention of the Department Chair, and subsequently to the College Dean.⁸
- **Formal Grievance Process:** If the informal process does not produce a resolution, a student may file a formal written complaint. The process for formal complaints and subsequent appeals is detailed in the Midwestern State University Student Handbook and involves the appropriate Dean, Director, or Vice President.⁸
- **Scholastic Appeals Committee:** A student may appeal a course grade or suspension from an academic program only on the basis of having been evaluated unfairly relative to classmates or if a clerical error was made. The procedure for such an appeal is managed through the Scholastic Appeals Committee and is outlined in the university catalog.⁸

Policy on Changes to this Handbook

The information in this handbook is current as of the date it is posted. However, this manual may be revised or amended upon written notification to the student. No revision or amendment will be retroactive, but will become effective upon the date of student notification. The Chair of Radiologic Sciences will make the final interpretation of program policies and procedures.⁸

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