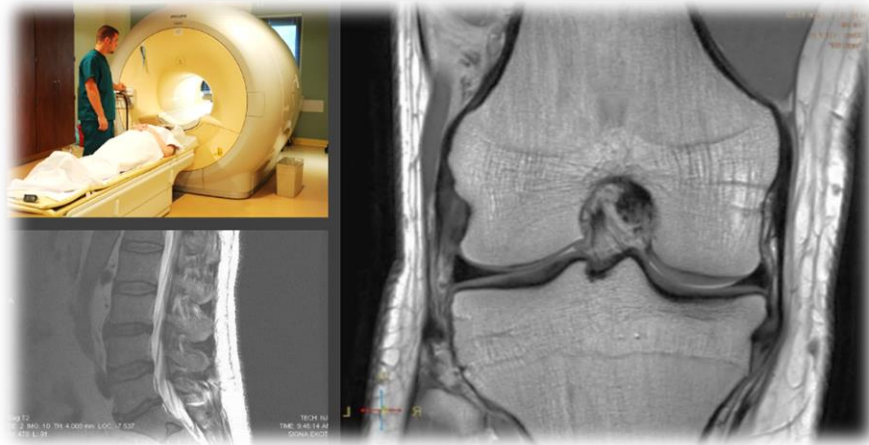


# **Magnetic Resonance Imaging (MRI)**

Bachelor of Radiologic and Imaging Sciences Degree  
or  
MRI Certificate Program

Online Program Information Packet  
For Fall Semester 2024



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Salem Ohio 44460

Computed Tomography Program Website and Application:  
<https://www.kent.edu/columbiana/magnetic-resonance-imaging-mri>

**Accepting applications January 1<sup>st</sup> – July 1<sup>st</sup>**

## Magnetic Resonance Imaging Programs at Kent State – Salem

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Thank you for your interest in the Magnetic Resonance Imaging (MRI) program at the Kent State Salem Campus. Applicants **must have** graduated from a program in radiologic technology, nuclear medicine, or radiation therapy and **be currently** registered by the American Registry of Radiologic Technologists (ARRT) in radiologic technology or radiation therapy or by the Nuclear Medicine Technology Certification Board (NMTCB) in nuclear medicine, or an ARDMS registered diagnostic medical sonographer.

MRI is a rapidly evolving field with advancements in technology and types of exams that can be performed. Employment and career information can be found at:

<https://www.bls.gov/ooh/healthcare/radiologic-technologists.htm>

**The Magnetic Resonance Imaging (MRI) program at Kent State – Salem offers coursework that is 100% online.** Clinical experience is completed at healthcare facility to meet the clinical requirements for the ARRT certification exam in MRI.

**The MRI program has two pathway options:**

1. The **Certificate Program** offers Radiologic and Imaging (RIS) coursework specific to MRI that fulfills the ARRT structured education requirements and prepares the student for the ARRT national certification exam. Courses are offered in 2 semesters (fall and spring) with an optional review course and clinical experience offered in summer.

**Students who pursue the certificate program can use those completed courses toward the BRIT degree.**

»» For more information on the Certificate Program, see page 5

2. The **Bachelor Degree Program** offers Radiologic and Imaging (RIS) coursework specific to MRI that fulfills the ARRT structured education requirements and prepares the student for the ARRT national certification exam. Additional courses supporting MRI coursework are offered as well as the completion of Kent Core courses and 8 hours of upper division electives (120 credit hours total). MRI and supporting courses are offered in 3 semesters (fall, spring, and summer).

»» For more information on the Bachelor Degree Program, see page 6

**Clinical experience has two options for both the certificate and degree pathways:**

1. **Internship:** Those currently working in MRI can complete clinical requirements during paid time at their place of employment. **Verification of employer agreement is required.** No affiliation agreement is required. The student is responsible for maintaining up-to-date immunization records and other required employment records with their employer.
2. **Clinical Education:** Those who are not currently working in MRI will complete clinical requirements at an affiliated healthcare facility during unpaid time (at their place of employment or elsewhere). An affiliation agreement is required. The student will need to complete a federal and state background check, drug screening, and submit up-to-date immunization to CastleBranch, a record-keeping service utilized by the program.

## Mission Statement of the Magnetic Resonance Imaging Program

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The mission of the MRI program is to educate MRI students in the knowledge, skills and attitude to become qualified practitioners who provide quality service and care to the community and to prepare students for the changing needs of the profession. Kent State University transforms lives and communities through the power of discovery, learning and creative expression in an inclusive environment.

## Program Goals

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1. Students will successfully complete all academic requirements for the application of knowledge to the practice of magnetic resonance imaging.
2. Students will effectively utilize critical thinking, problem-solving and decision-making skills in the practice of magnetic resonance imaging.
3. Students will effectively communicate in oral and written form with patients, customers, and all members of the health care team.
4. Students will successfully perform magnetic resonance imaging procedures and attain results of high diagnostic value, while providing patient care.
5. Students will exhibit personal and professional attributes and values relevant to the practice of magnetic resonance imaging.

## Admission Requirements

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Review the following **minimum** requirements. The completion of these requirements does not guarantee acceptance into the program. It is the applicant's responsibility to review transcripts from high school and/or from college/university to determine eligibility in meeting program requirements. Only those candidates who meet the following requirements should apply to the MRI program.

1. **Graduation** from a radiologic technology, nuclear medicine or radiation therapy program and **currently registered** by the American Registry of Radiologic Technologists (ARRT) or the Nuclear Medicine Technology Certification Board (NMTCB), or an ARDMS registered diagnostic medical sonographer.
2. **Cumulative grade point average of 2.75 or higher**
3. **Completion** of a college algebra course or one that equates to or at a higher level.
4. **Completion** of college Anatomy and Physiology I & II courses (or equivalent courses) with labs and grades of "C" or better.

## Application Process

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Applicants who are applying to the MRI program are advised to follow the process below if applying for the program that begins **Fall 2024**.

**The following (3) steps must be completed for your application to be processed:**

**Step 1: [Apply to Kent State University](#):** Must be **admitted** to the university by **July 1<sup>st</sup>**.

Complete and submit the Kent State University application. This step is NOT necessary if you are currently attending or have previously attended KSU and have not attended any other college or university since attending Kent. If you attended KSU and then attended another college or university, you must reapply to Kent State.

**Step 2: [Send Official High School and College Transcripts](#):** Arrange to have **official transcripts** from all universities and colleges attended including medical imaging programs sent directly from those schools to Kent State Salem Campus. Students who previously attended or are currently attending KSU are not required to submit transcripts unless they have attended a college after leaving Kent State.

**All transcripts must be received by Kent State no later than July 1<sup>st</sup>.**

**Transfer students** will have their transcripts evaluated by Kent State University and may need to provide course descriptions and/or syllabi to determine equivalency of courses. Students can use [www.kent.edu/transfercenter](http://www.kent.edu/transfercenter) or [www.transfer.org](http://www.transfer.org) as a guide to potential applicability of transfer credits and equivalent courses.

**Step 3: Apply to the MRI program: applicants must designate that they have received approval from a healthcare facility to complete clinical experience or an internship.**

## Application Review

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Applications are accepted on a rolling basis from January 1<sup>st</sup> – July 1<sup>st</sup>. Applicants who meet program requirements will receive a letter of acceptance.

Application must include the name of the healthcare facility you have confirmed will permit clinical education experience if not currently working in the modality. If you are currently working in the modality, your supervisor and contact information will be requested to confirm approval of the internship.

All accepted applicants will begin the program in Fall 2024.

## MRI Course Requirements: Certificate Option

Didactic (lecture) courses are offered 100% online with clinical education experience completed at a local healthcare facility.

Clinical education experience has two options:

1. For those not currently working in MRI, enrollment in MRI Clinical Education courses will fulfill ARRT clinical and bachelor degree requirements.
2. For those currently working in MRI, enrollment in BTAS 40092 will fulfill ARRT clinical and bachelor degree requirements.

»» For more information on clinical experience options, see page 2.

Program Schedule by Semester	Course Number	Course Name	Sem. Hrs.	Course Length	Optional Live Lecture Days (Remote)
Fall Semester	RIS 34084	CT/MRI Sectional Anatomy I	2	15 weeks	TBA TBA
	RIS 44031	Patient Management in MRI	2	7 weeks	
	RIS 44044	MRI Procedures I	2	7 weeks	
	RIS 44051	MRI Equipment and Image Acquisition I	2	7 weeks	
	RIS 44003	MRI Clinical Education I	2	15 weeks	
	BTAS 40092	OR Internship for Technical and Applied Studies	2	15 weeks	
		Total for fall	10		
Spring Semester	RIS 34086	CT/MRI Sectional Anatomy II	2	15 weeks	TBA TBA
	RIS 44045	MRI Procedures II	2	7 weeks	
	RIS 44052	MRI Equipment and Image Acquisition II	2	7 weeks	
	RIS 44063	MRI Clinical Education II	2	15 weeks	
	BTAS 40092	OR Internship for Technical and Applied Studies	2	15 weeks	
		Total for spring	8		
Optional Summer Semester		<b>Recommended but not required for Certificate</b>			TBA
	RIS 44066	MRI Techniques (review course)	2	8 weeks	
	RIS 44073	MRI Clinical Education III	2	5 weeks	
		Total for summer (May – July)	4		

Only the MRI-specific coursework is required for the certificate option.

Completion of the courses below will fulfill the bachelor degree requirements if pursued.

Minimum certificate and overall GPA is 2.00.

## MRI Course Requirements: Bachelor Degree Option

Didactic (lecture) courses are offered 100% online with clinical education experience completed at a local healthcare facility.

Clinical education experience has two options:

1. For those not currently working in MRI, enrollment in MRI Clinical Education courses will fulfill ARRT clinical and bachelor degree requirements.
2. For those currently working in MRI, enrollment in BTAS 40092 (internship course) will fulfill ARRT clinical and bachelor degree requirements.

»» For more information on clinical experience options, see page 2.

Program Schedule by Semester	Course Number	Course Name	Sem. Hrs.	Course Length	Optional Live Lecture Days (Remote)
Fall Semester	RIS 34084	CT/MRI Sectional Anatomy I	2	15 weeks	TBA TBA
	RIS 44031	Patient Management in MRI	2	7 weeks	
	RIS 44044	MRI Procedures I	2	7 weeks	
	RIS 44051	MRI Equipment and Image Acquisition I	2	7 weeks	
	RIS 44003	MRI Clinical Education I	2	15 weeks	
	BTAS 40092	OR Internship for Technical and Applied Studies	2	15 weeks	
	*RIS 44096	*Individual Investigation in Medical Imaging	3	15 weeks	
		Total for fall	13		
Spring Semester	RIS 34086	CT/MRI Sectional Anatomy II	2	15 weeks	TBA TBA
	RIS 44045	MRI Procedures II	2	7 weeks	
	RIS 44052	MRI Equipment and Image Acquisition II	2	7 weeks	
	RIS 44063	MRI Clinical Education II	2	15 weeks	
	BTAS 40092	OR Internship for Technical and Applied Studies	2	15 weeks	
	*RIS 44083	*Pathophysiology in Medical Imaging	3	15 weeks	
	*RIS 44088	*Leadership in Medical Imaging	1	15 weeks	
	*RIS 44098	*Research in Medical Imaging	3	15 weeks	
		Total for spring	15		
Summer Semester	RIS 44066	MRI Techniques (review course)	2	8 weeks	TBA
	RIS 44073	MRI Clinical Education III	2	5 weeks	
	BTAS 40092	OR Internship for Technical and Applied Studies	2	5 weeks	
		Total for summer (May – July)	4		

\*These courses may be taken during or after the program, but are only offered in the semester listed.

In addition to the MRI courses listed above, completion of additional coursework is required to meet the bachelor degree requirements. See page 7 for additional required coursework.

## **MRI Additional Requirements: Bachelor Degree Option**

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1. **Kent Core Requirements (or equivalent courses to be transferred)**
  - 6 semester hours of English Composition: ENG 11010, 21011 College Writing I and II
  - 3 – 5 semester hours: MATH 10772 Modeling Algebra Plus or MATH 11009 Modeling Algebra
  - 9 semester hours: Humanities & Fine Arts (see Kent Core list)
  - 6 semester hours of Social Sciences including PSYC 11762 General Psychology
  - 6 semester hours of Sciences: Anatomy and Physiology I and II (must include labs)  
Note: BSCI 20020, Anatomy & Physiology II at KSU does not have Kent Core status.  
BSCI 11020, Foundational Anatomy & Physiology II at KSU does have Kent Core status.
  - 6 semester hours: CHEM 10050 or 10055 + Additional Kent Core courses in any category.
2. Completion of two **diversity courses**: one global and one domestic which may be Kent Core courses (**or equivalent courses to be transferred**). Designated as G = global and D = domestic.
3. **8 credit hours** of upper division electives at the junior or senior level (KSU: 30000-40000), **or equivalent transfer courses**. Electives can be in any subject area (must meet course prerequisites).
4. Each RIS course must be completed with a minimum grade of “C” or better to continue in the program. A 2.75 cumulative GPA is required in the RIS courses to graduate with the BRIT degree.