



Magnetic Resonance Imaging Program Handbook

Forsyth Technical Community College 2100 Silas Creek Parkway Winston-Salem, NC 27103 (336) 723-0371

www.forsythtech.edu

Forward

Welcome to the Forsyth Tech MRI program. We are excited you are here and ready to explore the world of MRI technology. This handbook is a guide to our profession, accreditation, program policies, and general information. Please read and familiarize yourself with these important documents. If you have any questions or concerns, please contact one of the faculty here to help you.

The MRI program combines classroom instruction, lab practice sessions, and clinical rotations in hospitals and clinics. This allows the student to learn in various settings using diverse mediums. Many of our students find employment opportunities in sites where they have done clinical rotations, and we have a symbiotic relationship with our partner hospital and clinic systems.

Students will complete courses in MRI Physics, Procedures, Anatomy & Pathology, Ethics, Patient Care, and Fundamentals of Imaging. The courses span 5 semesters, with students earning an AAS in Magnetic Resonance Imaging. Our program is regionally accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) and our students are eligible to sit for the American Registry of Radiological Technologist (ARRT) national board exam upon graduation. (https://www.arrt.org/)

Forsyth Tech is committed to your education, and eventually employment in the ever changing and growing field of Magnetic Resonance Imaging. We encourage your questions, comments, and feedback as you progress through this curriculum.

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SECTION I GENERAL INFORMATION

1.1 MR Imaging Technology Programs

The handbook contains specific information for use by students in the Associate in Applied Science Magnetic Resonance Imaging Program and/or Diploma Program. For general Forsyth Tech policies, please reference the link for Student Services, https://www.forsythtech.edu/student-resource-guide/. There is a wealth of information and resources available. We encourage students to contact your instructor, program coordinator, or the Forsyth student services with any question or concern. Also, policies change sometimes, you may need to refresh your information as situations arise.

1.2 Equal Opportunity and Inclusion

Diversity and inclusiveness are foundational Forsyth Tech values. We are an Affirmative Action, Equal Opportunity, and ADA Section 504 institution and do not discriminate based on race, sex, color, age, religion, national origin, disability, or political affiliation towards its students, employees, or applicants for admission or employment. The International Center of Forsyth Tech is a welcoming, multi-faceted learning and guidance center for internationals, immigrants, refugees, and the community. It serves as an academic and professional resource to the college, business community and internationals on matters of education, cultural awareness, integration, job assistance, and support services. https://www.forsythtech.edu/the-international-center/)

1.3 Admission and Transfer Policies:

The MRI Program uses an admission process that incorporates various aptitudes and skills. We believe the more holistic application process will lead to a resilient student who is poised for success.

Our admissions process is competitive with our 2-year degree program beginning new classes each fall. Resources, such as clinical Facilities and faculty, and approval standards limit the number of applicants admitted to the program to 12 students. All applicants must meet minimum requirements to be considered for admission. For further information please follow the link below for our Minimum Admissions Requirements (MAR): https://www.forsythtech.edu/programs/magnetic-resonance-imaging/

Transfer of credit from prior institutions is permitted if those credits are applicable to our requirements and compliant with all state and federal

regulations. For questions about credit transfer please see the link below or reach out to the admissions department.

https://www.forsythtech.edu/students/apply/transcripts/

Tuition and financial aid are available, and these policies are outlined in the FTCC student handbook. Partial refunds are available to students who drop courses with a prorated deadline. Please read and understand the Drop/Add policies as well as important calendar dates at the link below: https://www.forsythtech.edu/events/category/academic-calendar/

1.4 Mission Statement

The mission of this program is to involve the student in the active learning process through diverse educational experiences that include classroom, laboratory, and clinical education with the result being a professional entry-level Magnetic Resonance Imaging Technologist that values teamwork and continues life-long learning.

1.5 Program Goals and Student Learning Outcomes

Goal 1: Students will demonstrate entry-level clinical competence in MRI.

Student Learning Outcomes:

- Students will position patient according to the correct landmarks.
- Students will select image parameter according to protocol.
- Students will utilize MRI safety measures during all clinical duties.

Goal 2: Students will demonstrate effective communication skills.

Student Learning Outcomes:

- Students will demonstrate effective written communication skills.
- Students will demonstrate effective oral communication skills.
- Students will demonstrate the ability to communicate with patients and staff during clinical rotations.

Goal 3: Students will develop problem solving/critical thinking skills.

Student Learning Outcomes:

• Students will adapt imaging parameters for optimum image quality.

• Students will analyze images for diagnostic quality.

Goal 4: Students will model professionalism.

Student learning Outcomes:

- Students will demonstrate professional behavior.
- Students will summarize the value of life-long learning.
- Students will understand ethical behavior.

Assessment of these goals is done in a variety of ways. Clinical evaluations, instructor and preceptor direct supervisions, competency, laboratory checks, didactic classes, and testing. Each student is encouraged to check in often and reach out to faculty and staff with any questions or concerns.

1.6 History

Forsyth Technical Community College can trace its beginning to early adult and high school vocational courses which were available in Winston-Salem. In 1958, the Chamber of Commerce Study Committee recommended that an Industrial Education Center be built to provide the trade and technical training needed by local industry. A bond issue provided the money to start construction of two buildings late in 1959 and the first adult classes began in October of 1960. In 1963, a third building was constructed, and new technical programs were added. That same year the North Carolina legislature passed the Community College Act, creating a statewide system of Community Colleges, Technical Institutes, and Industrial Education Centers. In January 1964, the name of the school was changed to Forsyth Technical Institute. The operation of the school was transferred from the Winston-Salem/Forsyth County Schools to a local Board of Trustees who has continued to govern the College following policies established by the State Department of Community Colleges.

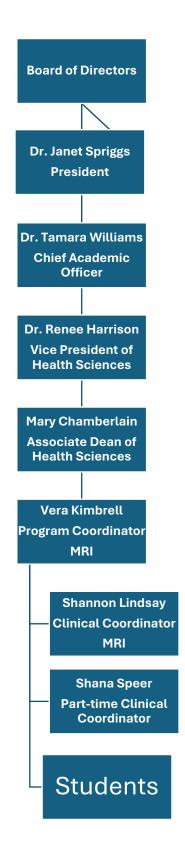
In 1972, Forsyth Technical Institute acquired the two existing Radiologic Technology Programs in Winston-Salem, one from Forsyth Memorial Hospital and the other from North Carolina Baptist Hospital. Nuclear Medicine Technology also joined the FTI programs. These two hospitals have continued to provide clinical affiliations and adjunct faculty for the Program. The third clinical affiliate, High Point Regional Hospital, was added in March 1989. The MR clinical affiliates are now in a wide variety of counties. The College provides instructional personnel.

In July 1985, the Board of Trustees and the Forsyth County Board of

Commissioners approved the name change for the College from Forsyth Technical Institute to Forsyth Technical College. In 1988, the name was again changed to the present name for the College, Forsyth Technical Community College.

In 1989, Radiation Therapy and Medical Sonography Programs joined the Allied Health Programs as a part of the Health Technologies Division of Forsyth Technical Community College and in 1992 Cardiovascular, Vascular, Interventional, and MRI Programs began. Forsyth Tech is accredited by the Southern Association of Colleges and Schools and is approved by the North Carolina Board of Education. The AAS MRI program is also recognized by the American Registry of Radiologic Technologists.

1.7 Organization Chart



1.8 Instructional Faculty

Vera Kimbrell, M Ed, RT (R) (MR) **Program Coordinator** W230 Bob Greene Hall Office: (336) 734-7286 Cell: (781) 690-9853 vkimbrell@forsythtech.edu

Shannon Lindsay, BA, MR Clinical Coordinator W228 Bob Green Hall Cell-804-548-3149 slindsay@forsythtech.edu

Shana Speer, RT MR Part-time clinical coordinator

Cell: 336-909-5104 scline@forsythtech.edu

1.9 Faculty Descriptions:

Program Coordinator/Director

A campus faculty member responsible for the organization, supervision, and operations of the program. The program director is responsible for the following:

- Assuring effective program operations
- Overseeing ongoing program accreditation and assessment processes
- Participating in budget planning
- Participating in didactic and/or clinical instruction, as appropriate
- Maintain current knowledge of professional discipline and educational methodologies through continuing professional development
- Assuming the leadership role in the continued development of the program
- Curriculum design
- Evaluation of faculty
- Conducts on-going program effectiveness
- Evaluates and assures clinical education effectiveness
- Advisement of students
- Serve on committees

Clinical Coordinator

A campus faculty member will be responsible for the organization, supervision, and coordination of the clinical education courses in each clinical affiliate. The clinical coordinator is responsible for the following:

- Correlating and coordinating clinical education with didactic education and evaluating its effectiveness.
- Participating in didactic and/or clinical instruction.
- Supporting the program director to ensure effective program operations.
- Participating in the accreditation and assessment processes.
- Maintaining current knowledge of professional discipline and educational methodologies through continuing.

professional development.

- Maintaining current knowledge of program policies, procedures, and student progress.
- Evaluates competencies, advises, and counsels students.
- Periodically assists Program Coordinator in review and revision of clinical course materials.
- Serves as a liaison between the campus and clinical affiliates and facilitates communication between the clinical. affiliates and the college.
- Supervises and assists the clinical instructor/preceptor as needed with scheduling, instruction, etc.
- Observes and visits students in the clinical setting during clinical educational experience.
- Advisement of students.
- Serve on committees.

Clinical Instructor/coordinator (part-time)

A part-time clinical instructor/preceptor will be responsible for:

- Maintaining knowledge of program mission and goals.
- Understanding the clinical objectives and clinical evaluation system and evaluating students' clinical competence.
- Providing students with clinical instruction and supervision.
- Participating in the assessment process, as appropriate.
- Maintaining current knowledge of program policies, procedures, and student progress and monitoring and enforcing program policies and

procedures.

- Ensure that students follow clinical affiliates, program, and college policies and procedures.
- Supports the clinical coordinator and program director to help ensure effective program operation.

1.10 Clinical Education Affiliations:

Atrium Health Wake Forest Baptist Outpatient Imaging Center Kernersville	861 Old Winston Rd. STE 101, Kernersville, NC 27284	Kernersville	27284
Atrium Health Davie Medical Center	329 NC Hwy 801 North	Bermuda Run, NC	27006
Alamance Regional Medical Center	1240 Huffman Mill Rd.	Burlington, NC	27215
Catawba Valley Medical Center	810 Fairgrove Church Rd., SE	Hickory, NC	28602
Clemons Medical Center- Novant	6915 Village Medical Cir	Clemmons, NC	27012
Greensboro Medical Imaging	315 West Wendover Ave.	Greensboro, NC	27401
Greensboro Imaging -DRI Alamance	4030 Oaks Professional Parkway Suite 101	Burlington, NC	27215

Greensboro Imaging-DRI Lake Brandt	6199 Lake Brandt Road 27455	Greensboro, NC	27455
Emerge Ortho-Triad region	1111 Huffman Mill Rd,	Burlington, NC	27215
Forsyth Medical Center (Novant)	3333 Silas Creek Parkway	WS, NC	27103
Forsyth Medical Center Imaging – Maplewood Clinic	3155 Maplewood Drive	WS, NC	27103
High Point Regional Hospital System	601 North Elm St.	High Point, NC	27262
Hugh Chatham Health	180 Parkwood Drive	Elkin, NC	28621
Lexington Memorial Hospital- Atrium	250 Hospital Dr.	Lexington, NC	27292
Moses H. Cone Memorial Hospital	1200 N. Elm St.	Greensboro, NC	27401
Morehead Memorial Hospital	117 E. Kings Highway	Eden, NC	27288
Northern Hospital of Surry Co.	830 Rockford St.	Mount Airy, NC	27030

Randolph Heath	364 White Oak St	Asheboro, NC	27203
Rowan Regional Medical Park on Julian Rd.	514 Corporate Circle	Salisbury, NC	28147
Thomasville Medical Center	207 Old Lexington Rd.	Thomasville, NC	27360
Wake Forest University Baptist Medical Center	Medical Center Blvd.	WS, NC	27157
Wesley Long Community Hospital	501 N. Elam Ave.	Greensboro, NC	27403

1.11 ARRT EQUATION FOR EXCELLENCE

The licensure body for MRI technologist is the American Registry of Radiologic Technologists (ARRT). They have laid out three pillars of excellence to which our program abides.

EDUCATION

Education is the first of the three components of The ARRT Equation for Excellence, but it applies throughout an R.T.'s career. First is preparatory education that, through didactic and clinical requirements, establishes eligibility for certification and registration. Post primary eligibility has its own educational requirement by way of clinical experience that all candidates must fulfill. Even after earning the R.T. credential, R.T.s are subject to continuing education (CE) requirements and—for certificates earned since Jan.1, 2011—Continuing Qualifications Requirements (CQR).

ETHICS

The ARRT Standards of Ethics provides proactive guidance on what it means to be qualified and to motivate and promote a culture of ethical behavior within the profession. Compliance with the Rules of Ethics is required for initial eligibility and ongoing certification and registration. The Code of Ethics serves as an aspirational guide to achieving the highest standards of patient care. A link to the Ethics document is provided. It is important that you understand the importance of ethics in your profession and practice.

The Code is intended to assist radiologic technologists in maintaining a prominent level of ethical conduct. The entire Standards of Ethics can be found at:

https://www.arrt.org/pages/earn-arrt-credentials/initial-requirements/ethics/ethics-requirements

• EXAMINATION

Although education and ethics requirements are imposed by ARRT, technologists themselves oversee determining when they confront the examination component of the Equation for Excellence. The first exam they pass bestows the "R.T." designation, accompanied by the initials indicating their discipline. An applicant will have a maximum of three attempts to pass this rigorous examination.

1.12 Scope of Practice

The practice of magnetic resonance is performed by health care professionals responsible for the use of radiofrequencies within a magnetic field for diagnostic, therapeutic or research purposes. A magnetic resonance technologist performs magnetic resonance and molecular imaging procedures and acquires and analyzes data needed for diagnosis at the request of and for interpretation by a licensed practitioner (ASRT practice standards).

Magnetic resonance technologists independently perform or assist the licensed practitioner or radiologist assistant in the completion of magnetic resonance and molecular imaging procedures. Magnetic resonance technologists prepare, administer and document activities related to medications in accordance with federal and state laws, regulations, or lawful institutional processes.

1.13 Standards of Practice

- Applying principles of magnetic resonance safety to minimize risk to patient, self, and others.
- Assisting the licensed practitioner with interventional procedures.
- Performing procedures for diagnostic interpretation or therapeutic

intervention as prescribed by a licensed practitioner.

- Selecting appropriate pulse sequences with consideration given to established protocols and other factors influencing data acquisition parameters.
- Assesses patient for factors that may contribute to anxiety or claustrophobia.
- Identifies and removes items that may affect patient's safety, damage the equipment, or affect the image quality.
- Screens patient and others for potential magnetic resonance contraindications, either within the body or on their person, prior to entering the magnet room.

1.14 Working as an MRI Technologist

Magnetic Resonance Imaging (MRI) is an emerging imaging modality enhancing the ability to see anatomy, pathology, and physiology. Clinically MRI has been used for about 45 years, it is complex and evolving at a rapid pace.

As an MR Technologist, you will integrate your knowledge of the fundamental principles of MRI physics, safety, and anatomy into your daily practice. MRI allows viewing cross-sectional images of anatomical regions non-invasively by using strong magnetic fields and radio waves. To perform an MRI scan, the patient is placed on an imaging table and an imaging coil will be placed on the patient. Exam times vary by patient diagnosis, anatomy, and complexity of the protocol.

Many types of MRI scanner exist. Some scanners are tube-shaped, and others are of a more "open" design. Patients may have some level of anxiety during the procedure and require the support of a calm and caring technologist, which makes all the difference in the patient's experience. MRI scanners create powerful magnetic fields that line up certain atomic nuclei within the body. When stimulated by radio

waves, these nuclei produce rotating magnetic fields that can be converted into images by a computer. Technologists have a nuanced understanding of the physics behind this process that allows them to create pictures with excellent contrast and signal to noise ratios. They also rely on their expertise in landmarking the human anatomy to position the patient and target the body structures to be studied. Once a study is complete, the technologist reviews images for quality. The radiologist makes the diagnosis and communicates it to the patient's physician. As vital players on the health care team, MRI techs take immense pride in producing the high-quality images physicians need to diagnose and treat with confidence and

accuracy.

1.15 Technical Standards for Program Completion

Our program technical standards have been developed to help students understand non-academic standards, skills, and performance requirements expected of a student in this curriculum. If an accommodation is necessary to participate in the program, it is imperative to identify a reasonable accommodation for those students who qualify under the Americans with Disabilities Act (ADA). Reasonableness is determined by the Disability Services Office (DSO) and the program on a case-by-case basis utilizing the program technical standards. The accommodation should be submitted as soon as possible by the student to the DSO office.

Meeting these technical standards does not guarantee employment in this field upon graduation. Ability to meet the program's technical standards also does not guarantee a student's eligibility for any licensure, certification exam, or successful completion of the degree program.

Technical Standards MRI 02202025

Skills	Description	Specific Examples
Motor Skills	Motor abilities required for MRI include gross and fine muscular movements, equilibrium, strength, and functional use of all combined senses for the safe handling of patients, self, and equipment.	 Manipulate small objects such as knobs, buttons, and switches on MR equipment Perform procedures as intravenous access and injection
Vision	Normal or corrected visual ability sufficient for accurate observation and performance of MRI equipment, images, and monitoring equipment	 Patient identification Read the exam orders Read and document patient's clinical history Ability to recognize a patient in distress Read and interact with multiple computer screens during an exam. Recognize window and leveling on images, and ascertain anatomy, and pathological structures

Skills	Description	Specific Examples
Hearing	Auditory ability sufficient for physical monitoring and assessment of patient and equipment needs during performance of MRI exams.	 Ability to hear verbal directions/requests from physicians, patients, etc. Ability to understand and communicate to the patient in the MRI scanner through the microphone or other auditory equipment.
Technological	Adaptability and skills to utilize current electronic, digital, and medical technologies.	Adaptability and skills to utilize current electronic, digital, and medical technologies
Communication	Oral and written communication skills to communicate in English with accuracy, clarity, and efficiency with patients, their families, and other members of the healthcare team, including non-verbal communication, such as interpretation of facial expressions, affect and body language.	 Communicate with clear dictation and in a concise manner to patients, visitors, and other healthcare professionals in various departments Read, type, and write appropriate instructions and documentations in patients' charts, notes, and medical records accurately Elicit information and cooperation (i.e.: obtaining patient history, giving breathing instructions) Describe changes in a patient's mood, activity, and posture Perceive nonverbal communication (i.e.: pain, lack of understanding) Recognize and report critical patient information to other caregivers
Critical Thinking/ Problem Solving	Critical thinking and problem-solving skills sufficient for sound clinical	Organize and accurately perform in proper sequence, and within a

Skills	Description	Specific Examples
	judgment during the performance of radiography	specified time, the steps required for MRI procedures • Ability to remember and recall information and multitask • Ability to accurately read and transcribe medical information
Interpersonal Skills	Present with professional appearance and demeanor; follow instructions and safety protocols and maintain a positive attitude. Demonstrate honesty and integrity beyond reproach. Possess sufficient interpersonal abilities to interact with individuals, families, groups, etc. from a variety of social, emotional, cultural, and intellectual backgrounds.	 Function safely, effectively, and rationally under stressful conditions Maintain composure while managing multiple tasks simultaneously Prioritize multiple tasks Exhibit social skills necessary to interact effectively with patients, families, supervisors, and co-workers of the same or diverse cultures such as respect, politeness, tact, collaboration, teamwork, and discretion
Environmental Tolerance	MRI students may be exposed to communicable diseases and/or blood and body fluids, toxic substances, medical preparations, latex, and work in a strong static magnetic field. Students should always use appropriate precautions and practice MRI safety procedures.	 May care for patients with a communicable disease and shall provide all care using universal precautions Possible exposure to chemicals, irritants, and latex and shall follow all safety and health protection guidelines Ability to work in a strong external magnetic field and always follow MRI safety Ability to work in a noisy environment with frequent interruptions

Skills	Description	Specific Examples
Mobility	Motor abilities required for radiography include gross and fine muscular movements, equilibrium, strength, and functional use of all combined senses for the safe handling of patients, self, and equipment.	 Kneeling and bending to perform CPR Assist patients who may fall or faint Position and set-up of patients for exams Stand and sit for periods of time while performing exams and prepping patients Lift approx. 50lbs Move MRI coils on & off scanning table & storage areas Assist patients on/off table, stretchers & wheelchairs

Section II

Program Specific Information

2.1 Curriculum by Semester

Associate in Magnetic Resonance Imaging

Fall Semester - 1

Description			Class	Lab	Clinical	Credit
IMG	120	Patient Care in Medical Imaging	1	2	0	2
IMG	110	Fundamentals of Imaging I	2	0	6	4
BIO	or	Biology Anatomy & Physiology	4	2	0	5
MAT	143	Quantitative Literacy	1	2	0	2
ENG	111	Writing and inquiry	3	0	0	3

Spring Semester –

Description				Lab	Clinical	Credit
IMG	130	Ethics/Law in Medical Imaging	3	0	0	3
IMG	111	Fundamentals of Imaging II	2	0	6	4
PSY	150	Intro to Psychology	3	0	0	3
COM	231	Public Speaking	3	0	0	3

Summer Semester – 1: Beginning of Post Primary Diploma Program

Description			Class	Lab	Clinical	Credit
MRI	213	MRI Patient Care/Safety	2	0	0	2
MRI	216	MRI Instrumentation	2	0	0	2
MRI	250	MRI Clinical Ed I	0	0	12	4
HUM			3	0	0	3

Fall Semester – 2

Description			Class	Lab	Clinical	Credit
MRI	217	MRI Physics I	2	0	0	2
MRI	214	MRI Procedures I	2	0	0	2
MRI	241	MRI Anatomy/Pathology I	2	0	0	2
MRI	260	MRI Clinical Ed II	0	0	21	7

Spring Semester – 2

Description		Class	Lab	Clinical	Credit	
MRI	218	MRI Physics II	2	0	0	2
MRI	215	MRI Procedures II	2	0	0	2
MRI	242	MRI Anatomy/Pathology II	2	0	0	2
MRI	270	MRI Clinical Ed III	0	0	24	8
MRI	271	MRI Capstone	1	0	0	1

Total hrs.: 15

AAS Total Hours: 72 Diploma Total Hours:36

Course Descriptions

Course # Title and Description
IMG 110 Fundamentals of Imaging I

8 8					
Semester Information					
Credit Hours: 4 Contact Hours:					
Class Hours:	Lab Hours:	Clinical Hours:			
2	0	6			
		Course Information			

Course Description:

This course provides an overview of the principles of imaging for radiography, nuclear medicine, ultrasound, and radiation therapy. Emphasis is placed on image production and anatomical relationships in radiography, nuclear medicine, ultrasound, and radiation therapy. Upon completion, students should be able to identify basic anatomy on and differentiate between radiography, nuclear medicine, radiation therapy and ultrasound images.

IMG 120 Patient Care in Medical Imaging

Semester Information					
Credit Hours: 2 Contact Hours:					
Class Hours:	Lab Hours:	Clinical Hours:			
1 2 0					
		Course Information	•		

Course Description:

This course is designed to provide the basic concepts of patient care in a healthcare facility. Topics include routine and emergent patient care procedures, infection control procedures, and usage of universal precautions. Upon completion, students should be able to demonstrate competence in these areas.

IMG 111 Fundamentals of Imaging II

		Semester Information	
Credit Hours: 4		Contact Hours:	
Class Hours:	Lab Hours:	Clinical Hours:	
2	0	6	
		Course Information	

Course Description:

This course provides an overview of the principles of imaging for CT, PET, CT/PET, and MRI in class and in the clinical setting. Emphasis is placed on image production and anatomical relationships in CT, PET, CT/PET, and MRI. Upon completion, students should be able to identify basic anatomy on and differentiate between CT, PET, CT/PET, and MRI images.

IMG 130 Ethics and Law in Medical Imaging Sciences

Semester Information					
Credit Hours: 3 Contact Hours:					
Class Hours:	Lab Hours:	Clinical Hours:			
3	0	0			
		Course Information			

Course Description: This course covers the legalities of relationships between health care workers and patients. Emphasis is placed on professional malpractice, patient rights, legal and professional standards, and ethical consideration. Upon completion, students should be able to demonstrate the legal and ethical responsibilities of a diagnostic imaging professional.

MRI 213 MR Patient Care and Safety

		Semester Information		
Credit Hours: 2 Contact Hours:				
Class Hours:	Lab Hours:	Clinical Hours:		
2	0	0		
		Course Information		

Course Description:

This course covers magnetic field safety issues concerning patients and other healthcare personnel. Emphasis is placed on screening skills, biological magnetic field effects, and the management of an MR facility. Upon completion, the student should be able to demonstrate a safe MR environment for patients and all personnel.

MRI 216 MR Instrumentation

Semester Information				
Credit Hours: 2 Contact Hours: 2				
Class Hours:	Lab Hours:	Clinical Hours:		
2 0 0				
Course Information				

Course Description:

This course covers instrumentation utilized to produce magnetic fields allowing MRI imaging to take place. Emphasis will be placed on equipment operations and use, inclusive of the static field, gradient fields, and the radiofrequency fields. Upon completion, the student should be able to demonstrate an understanding of the utilization of all MRI equipment in an MRI facility.

MRI 250 MR Clinical Ed I

Semester Information					
Credit Hours: 4 Contact Hours:					
Class Hours:	Lab Hours:	Clinical Hours:	Credit Hours		
0 0 12 4					
Course Information					

Course Description: This course provides experience in the MR clinical setting with attention to basic MR scan procedures. Emphasis is placed on patient care, screening, contrast administration, and manipulation of MR equipment. Upon completion, students should be able to demonstrate selected MR procedures/techniques in the areas of patient screening, contrast administration, and manipulation of MR equipment.

MRI 214 MR Procedures I

Semester Information					
Credit Hours: 2 Contact Hours: 2					
Class Hours: 2	Lab Hours:	Clinical Hours:			
Course Information					

Course Description:

This course introduces scan procedures for the central nervous and musculoskeletal systems with MRI imaging. Emphasis is placed on patient set-up, scan parameters, methods of data acquisition, and contrast administration with each of these types of procedures. Upon completion, students should be able to demonstrate all aspects of MR imaging to successfully scan the central nervous and musculoskeletal systems.

MRI 217 MR Physics I

Semester Information					
Credit Hours: 2 Contact Hours: 2					
Class Hours:	Lab Hours:	Clinical Hours			
2					
Course Information					

Course Description:

This course is designed to cover the basic physics fundamentals of Magnetic Resonance Imaging. Emphasis is placed on the historical development, basic imaging principles, and use of basic scan parameters and pulse

sequences. Upon completion, the students should be able to demonstrate an understanding of the fundamentals of magnetic resonance imaging.

MRI 241 MR Anatomy and Pathology I

	Se	mester Information			
Credit Hours: 2		Contact Hours: 2			
Class Hours:	Lab Hours:	Clinical Hours:			
2 0 0					
	(Course Information			

Course Description:

This course covers anatomical and pathological information about the components of the central nervous and musculoskeletal system. Emphasis is placed upon identification of anatomy and pathology on MRI images of the central nervous and musculoskeletal systems. Upon completion, the student should be able to identify anatomy and pathology of the central nervous and musculoskeletal systems.

MRI 260 MR Clinical Ed II

Semester Information				
Credit Hours: 7 Contact Hours:				
Class Hours:	Lab Hours:	Clinical Hours:	Credit Hours	
0 0 21 7				
Course Information				

Course Description: This course provides advanced experience in the MR clinical setting with attention to central nervous and musculoskeletal system imaging. Emphasis is placed on demonstration of methods of data acquisition with respect to central nervous and musculoskeletal system imaging. Upon completion, students should be able to demonstrate selected MR procedures/techniques as they relate to the central nervous system and musculoskeletal imaging.

MRI 215 MR Procedures II

111111 210	milit i i occuui (
Semester Information						
Credit Hours: 2 Contact Hours: 2						
Class Hours: 2	Lab Hours:	Clinical Hours:				
	•	Course Information	·			

Course Description:

This course introduces scan procedures for neck, chest, abdomen, and pelvic systems with MRI imaging. Emphasis is placed on patient set-up, scan parameters, methods of data acquisition, and contrast administration with each of these types of procedures. Upon completion, students should be able to demonstrate all aspects of MR imaging to successfully scan the chest, abdomen, and pelvic systems.

MRI 218 MR Physics II

	J		
Credit Hours: 2		Contact Hours: 2	
Class Hours:	Lab Hours:	Clinical Hours	

2				
Course Information				

Course Description:

This course is designed to cover the advanced physics concepts of Magnetic Resonance Imaging. Emphasis is placed on advanced imaging parameters and techniques, angiography methods, image artifacts and quality control. Upon completion, the students should be able to demonstrate an understanding of the advanced physics concepts of magnetic resonance imaging.

MRI 242 MR Anatomy and Pathology II

Semester Information			
Credit Hours: 2		Contact Hours:	
Class Hours:	Lab Hours:	Clinical Hours:	
2	0	0	
Course Information			

Course Description:

This course covers anatomical and pathological information about the components of the neck, chest, abdomen, and pelvic systems. Emphasis is placed upon identification of anatomy and pathology on MRI images of the neck, chest, abdomen, and pelvic systems. Upon completion, the student should be able to identify anatomy and pathology of the neck, chest, abdomen, and pelvic systems.

MRI 270 MR Clinical Ed III

Semester Information				
Credit Hours: 8 Contact Hours:				
Class Hours:	Lab Hours:	Clinical Hours:	Credit Hours	
0	0	24	8	
Course Information				

Course Description: This course provides additional advanced experience in the MR clinical setting with attention to neck, chest, abdomen, and pelvic imaging. Emphasis is placed on demonstration of methods of data acquisition with respect to neck, chest, abdomen, and pelvic system imaging. Upon completion, students should be able to demonstrate selected MR procedures/techniques as they relate to the neck, chest, abdomen, and pelvic system imaging.

MRI 271/MR 3354 dual MR Capstone

Semester Information			
Credit Hours: 1		Contact Hours:	
Class Hours: 1	Lab Hours:	Clinical Hours:	
Course Information			

This course provides experience using problem solving skills required for certification. Emphasis is placed on critical thinking and integration of didactic and clinical components. Upon completion, students should demonstrate the knowledge required of any entry-level MR technologist.

Program Costs and Fees

In-State Tuition (\$76.00 per credit hour x 72 credit hours)	\$5,472.00
Out-of-State Tuition (\$268.00 per credit hour x 70 credit hours) \$18,760.00	19,296.00
TEAS Testing (Admission Testing)	10.00
Medical physical, lab work, and immunizations,	Variable due to insurance, copay, and deductibles copay, and deductibles
CPR- American Heart Association (estimated average)	\$53.00
Trajecsys Clinical Reporting Software	150.00
Campus Parking Fees (CAPS)	125.00
Malpractice Insurance (Liability insurance must be purchased annually before engaging in lab or clinical practice. The cost varies according to the credit program and insurance carrier)	\$36.00
Textbooks and Course Material (estimated average)	400.00
Uniforms (estimated average)	75.00
Clinical Management System (MyClinicalExchange) (estimated average)	79.00
MR Registry Review Software	150.00
Criminal background/Drug Screening (American Data Bank/Complio) (estimated average)	95.00
Grand Total Estimated Costs: In-State resident	\$6,645
Total Estimated Costs: Out-of-State resident	\$20,269

The total estimated cost does not include travel expenses. Travel to Forsyth Tech main campus, clinical sites, second shift, and weekend clinical rotations are a requirement during the program. For additional information on Refund Policies please see the following link: https://www.forsythtech.edu/students/how-to-pay-for-college/financial-aid-faqs/

Program Critical Requirements

2.3 CPR Certification

The student must maintain a current completion of a Cardiopulmonary Resuscitation Course (CPR) and have a current copy of a CPR card in Forsyth Tech student file. The course should be labeled "Health Care Provider." Certification must be through the American Heart Association. Completion evidence must be presented to the department before the last class day of the first semester. It is the student's responsibility to keep their CPR current throughout the program.

2.4 MRI Safety

All accepted MRI students are required to complete an MRI screening form. This is an important safety criterion for all personnel in an MRI environment. Students will receive training in all aspects of MRI Safety and expected to perform according to all American College of Radiology guidelines, as well as those of the clinical practice sites. Any internal or external metallic devices must be disclosed and evaluated prior to clinical rotations. Confidentiality will be maintained, but the safety of staff and students is the top priority. MRI safety training is required prior to any clinical work in an MRI facility. MRI students will reach Level 2 MRI competency during the program curriculum. Any change in medical history as it pertains to MRI safety should be immediately reported to the MRI program leadership. This may impact the students' clinical placement and could lead to a change in status. The safety of our students is the utmost concern of the college.

2.5 Confidentiality

During the Clinical Education Program, students will be exposed to confidential or proprietary information. This may include patient care and identifying documents, and business information, covering facility specific operations, strategic planning, personnel, financial, and IT management systems. Each student should conform to ethical standards and never release any information related to the diagnosis, treatment, or care of the Facility's patients.

2.6 Infection Control

Universal Precautions must be taken during clinical rotations. Students must be aware of each facility's protocol in following the protective guidelines for

Infectious Diseases and Blood Borne Pathogens. (Education and training in HIPAA/OSHA policies for each facility will be completed prior to student clinical rotations).

2.7 Proficiency/Exam Competency Testing

Along with your didactic work, a key component of the MRI curriculum is performed during clinical rotations with our hospital and clinic instructors. MRI students will be deemed competent (by a registered MRI technologist) when a student can perform an exam with little guidance including elements of screening, venipuncture, protocol knowledge, and patient care. This skill set takes time and practice. Internal labs will be conducted and contribute a component of the overall grade.

Students will have a chance to practice in the lab and during clinic hours. Each student must perform their clinical comps/proficiency with a score of 75% or greater and this will become a part of the overall Clinical final grade.

*Other Critical Requirements may be listed in individual course syllabi.

2.8 Disabilities and Accommodations

Equity Statement

At Forsyth Technical Community College, equity is grounded in a culture of belonging. We will intentionally design the college experience to ensure that each learner receives what they need to be successful.

Disability Services

Disability Services is dedicated to meeting the needs of college students with disabilities. Our goal is to ensure that all students have equal access and opportunity to benefit from classes, programs, and activities at Forsyth Tech. Forsyth Tech strives to empower students in every way possible, believing that by doing so, we can maximize their abilities.

Students who have a disability and would like to request services and accommodation must register with Disability Services. They will be required to provide documentation about their disability. Information provided by a student is voluntary and appropriate confidentiality is maintained. Students who need

accommodation should contact the Disability Services Office (DSO) at (336) 734-7378 or (336) 734-7155; or disabilityservices@forsythtech.edu. The College has a telecommunications device for the deaf (TDD/TTY). The number is (336) 723-3411. DSO is in the Robert L. Strickland Center, Student Success Center - Suite 2414. Their office is open Monday – Thursday 8am to 5pm and Friday 8am to 3pm.

Services are designed and developed on an individual-needs basis and are free to our students. A student may elect to use any or all the accommodation/services appropriate to meet their needs. Students may walk into the DSO on Tuesdays and Thursday and speak with a DSO counselor, but an appointment is encouraged on all other days to discuss individual accommodation.

In strict compliance with Section 504 of the Rehabilitation Act of 1973, no otherwise qualified individual with a disability shall solely by reason of his or her disability be excluded from the participation in, denied benefits of, or be subjected to discrimination under any program or any activity of this institution. For more information regarding Disability Services, please view our Forsyth Tech Disability Student Services Guide.

2.9 Student Medical Insurance

The Forsyth Tech malpractice insurance is a student fee and is in place to provide liability protection in the event an accident should occur. All students are strongly recommended to have personal medical insurance coverage. Neither Forsyth Tech nor the clinical affiliates are liable for injury to or by individual students.

*Current Malpractice Insurance (Good for 1 year) Carrier: Strategic Resource Company (SRC).

2.10 Student Code of Conduct

The MRI Program strictly enforces Forsyth Tech's rule on Academic Dishonesty, Cheating, and Related Offenses. (See Rule 9. Academic Dishonesty, Cheating, and Related Offenses in Forsyth Tech Academic Catalog & Student Code of Conduct). *In the event of a violation*, appropriate *disciplinary action(s) will be taken*. Please visit the link below for complete Student conduct policies.

https://www.forsythtech.edu/files/servicesstudent/StudentGuideAccResources2021.pdf

2.11 Cell Phone and Electronic Devices

Forsyth Tech considers the use of cell phones to be disruptive to the classroom setting. Therefore, students are to silence cell phones while attending class or participating in class- related activities (i.e., labs, clinicals, etc.) The use of other electronic devices (such as laptops, netbooks, PDAs, recording devices, etc.) for learning purposes is permitted provided they do not disrupt the learning environment or create an academic integrity issue. The instructor may at his/her discretion prohibit the use of any electronic device. Students who do not comply will be considered in violation of the Student Code of Conduct and could face disciplinary actions.

2.12 Social Media Pages

Many individuals have social media accounts. Students may not discuss patients, staff, or scenarios that take place in the clinical or classroom setting on social media. To do so violates HIPAA policies. Students found to have posted comments or images on social media/or other sites will be dealt with according to the college or individual clinical sites' policies. MRI students that violate this procedures may face dismissal from the program.

2.13 Controlled Substance Usage

Any student under the influence of any narcotic drug, alcoholic beverage, or any other controlled substance (as controlled substance is defined by the N. C. General Statues) while in any MRI class, clinical or school-controlled activity, function, or event will be dismissed from the classroom or clinical site. Use of any medication authorized by medical prescription is not considered a violation, however, students will be held strictly accountable for their behavior while under the influence of prescribed drugs.

If dismissed, the student will be asked to immediately report to the MR departmental program coordinator and/or Dean of Student Services. The College's action will follow the "Student Code of Conduct and Responsibilities" of the *Forsyth Tech Student Handbook*. Action can include suspension and/or dismissal. The MR program will enforce all rules and regulations specific to the MR Student

Handbook. The Forsyth Tech Student Handbook regulations will be followed concerning student attendance and grading. Students suspected of using narcotics, alcoholic beverages, or controlled substance may be asked by clinical affiliated staff to submit to a drug test.

2.14 Criminal Background Checks/Drug Screening

Clinical facilities require criminal background checks and/or drug screening for students assigned to their facilities. After the student completes the requirements of the facility, the clinical agency will notify the college if a student will be allowed at the site due to a finding on the criminal background check or drug screen. Specific information will NOT be disclosed to the college. If a student is denied clinical access based on criminal background checks and/or a drug screen, the student will NOT receive a secondary placement in another facility. The student will not be able to progress in the program due to the inability to meet the clinical objectives. The student may discuss the findings of the criminal background checks and/or drug screening with the third-party vendor which provided the criminal background check and drug screening.

National and/or state registry and/or licensure or certification boards may prohibit eligibility for registry or licensure based on criminal background records. Information regarding individual eligibility may be obtained from the appropriate credentialing bodies.

Drug Screening Test Results Policy

Any student who fails drug screening will lose their seat in the program and will be referred for career counseling through the college.

If the failure of the drug screening is due to the following, the student will proceed accordingly:

- Diluted drug screening- The student will have one chance to repeat the drug screening within a given time limit. If the student has a second diluted result, the student will lose their seat in the program.
- Lab error- The student will take another drug screening.

Revised August 12,2024

2.15 Clinical Affiliate Rights

Clinical affiliates have the right to refuse access to their facility to individuals and/or students according to the clinical contract. For example, if a student has worked for a clinical site and been released with a status of 'no-rehire', the student MAY NOT be allowed to rotate at that facility or any of its affiliates. If a student is not able to meet the program competency requirements due to limited clinical facilities, the student may not be able to complete the course and program successfully, and course and program grading policies will apply.

Revised August 12, 2024

2.16 Curriculum Pregnancy Procedure

It is the process of Forsyth Technical Community College to keep individual exposure to radiofrequency and magnetic fields to a minimum, especially during pregnancy. Pregnant students are expected to follow the recommendations of the ACR regarding pregnant health care practitioners as outlined in the ACR White Paper on Magnetic Resonance (MR) Safety and MRI Safety Procedures for Pregnant Patients, Staff and Visitors. Please see the paragraph below for further information.

ACR Pregnancy-Related Issues:

"Pregnant health care practitioners are permitted to work in and around the MR environment throughout all stages of their pregnancy. Acceptable activities include positioning patients, scanning, archiving, injecting contrast, and entering the MR scan room in response to an emergency. Although permitted to work in and around the MR environment, pregnant health care practitioners are requested not to remain within the MR scanner bore or Zone IV during actual data acquisition or scanning."

2.17 Change of Health Status

Students that withdraw from the MRI Program due to a change in health will go through the following MRI program readmission process.

2.18 General Program Rules

- It is the student's responsibility to use the best judgement when coming to class with a potentially infectious/communicable disease. Each clinical site has specific regulations regarding attendance when sick. Specific questions should be directed to the MRI Clinical Coordinator.
- Each student is responsible for all material covered during any class session in which he/she is absent. Students are encouraged to discuss work missed with instructors.
- Textbooks should be brought to every class.
- Tests are presented to the student after grading for review and feedback.
- Submit all written materials in a neat and legible form on or before the due date. Further information is outlined in the classroom syllabus and assignment instructions.
- Students will not engage in disorderly or disruptive conduct. See "Student Code of Conduct" in the current student academic planner and handbook.
- Smoking or the use of smokeless tobacco/electronic cigarettes is prohibited in the classroom, campus, and clinical areas.
- No narcotics, alcoholic beverages, or controlled substances are allowed on the campus. If a student smells of alcohol or other illicit drugs, they will be immediately dismissed from class and/or clinical follow the programs disciplinary process. The student could be dismissed from the program.
- If a student is a threat to his own self or others, the student will be referred to the college student services for appropriate instruction.
- Use of profanity or inappropriate language is not permitted.
- Students must always be respectful to instructors and fellow students.
- Students must have a grade of 75% or higher to pass any course.
- If a student is dismissed (for academic reasons), a process for readmission will be outlined. Readmission to the program is based upon clinical availability and is not guaranteed. Students dismissed and not in good standing with the college will not be considered for readmission. Financial aid may not be available for

courses that have already been taken and credit awarded.

- If two or more students seek re-entry into the program at the same time, readmission will be determined by the students' original MAR score.
- In case of severe weather, the college will announce cancellation of classes on the local radio and television. If the college is closed, students may not go to the clinical. If the college is not closed and roads are unsafe in the student's area, the student should use the best judgement when deciding to come to class/clinical. The student will be responsible for making up any missed clinical time if the school is open. Students are responsible for checking Techlink, Tech Alert and the college website for news on changing weather when in clinical. When the college closes early due to weather on a clinical day, students should leave the clinical site as soon as it is safe to do so.

2.19 Academic/Grade Scale

A 90 - 100

B 89-80

C 79-70

D 69-60

F Below 60

To remain in good academic standing in the Magnetic Resonance Imaging Program, all courses with an IMG and MRI prefix, must be passed with a grade of 75 or above. This reflects compliance with ARRT exam expectations.

2.20 Library/Research Facilities

Library facilities include the main campus Forsyth Tech Library (Ardmore bldg. 1st floor) and (https://www.forsythtech.edu/library/). The MRI classroom (BGH W224) also has a library of MRI reference materials which can be borrowed as needed. There are many reference materials available on-line and in our library resources for your use during the program.

2.21 Reading and Homework Assignments

Classroom and instructor-student discussion are not the total learning process. To facilitate the teaching/learning process beyond the physical boundaries of the classroom, assignments are given requiring research, reading, computer

programs, audio-visual material, practice, and at-home study. These assignments strengthen the classroom instruction and enhance the instructional material for tests and exams. Instructors in various courses may opt to include these assignments in tests or when computing final grades.

2.22 Dress Code for Classroom

Students' personal appearance and demeanor reflects the college and program standards and their interest and pride in the profession. Students will be allowed to wear casual attire during class excluding short shorts, tank tops with spaghetti straps, torn jeans, halter tops, offensive tee shirts and see-through attire. Please remember that you are in a professional program, and we strive to enhance our professional image.

2.23 Classroom Attendance

Forsyth Tech regards class lectures, demonstrations, and other in-class experiences as vital ingredients to the educational process. For this reason, students are expected to attend and arrive on time at all class, laboratory, practicum, and clinical experience sessions. If you are unable to attend or will be late for class, please contact your instructor as soon as possible. You may either plan a make-up assignment or alternate lecture as required for the course curriculum. It is up to the instructor if a grade deduction will be given for tardy and missed classes. Please refer to the Forsyth Tech Student Handbook or your class syllabi for specific attendance policies. For those with extreme circumstances, military service, or severe health issues, please review the FTCC attendance and accommodation policies. Every effort will be made to maintain your program, however there are some deadlines, and clinical hours that may not be able to be remediated. Please speak with your program coordinator and advisor as soon as possible.

https://www.forsythtech.edu/military-members/ https://www.youtube.com/watch?v=rPMtnFi0Emw

2.24 Missed Tests

Students must be present for announced tests or a "0" will be issued. Exceptions will be managed on a case-by-case basis. Illness and emergency situations may require documentation. All missed assignments must be remediated as soon as possible at the instructor or program coordinator's discretion.

2.25 Clinical Rules and Regulations

- Students will be expected to comply with the Professional Code of Ethics by the American Registry of Radiologic Technologists (www.arrt.org).
- Any change to the students' MRI safety status (surgery, cosmetics, medication patches, etc.) must be reported to the Program Coordinator prior to any subsequent clinical rotation.
- Report on assigned area at appropriate time and check in with <u>Preceptor</u> and/or manager.
- Call to notify the clinical coordinator and site before arrival of any impending absence. See course syllabus for further information.
- All technologists registered in MR, employed by the clinical facility, are considered clinical preceptors. The students are under their direct supervision while in the assigned clinical setting.
- All hospital rules and regulations must be abided by. Violations could result in dismissal from the program. Any questions concerning these rules should be directed at the Forsyth Tech clinical instructor.
- Remain in the assigned area. When not busy the student should help with cleaning, stocking, and maintaining the department requirements.
- Take breaks when permitted by staff tech.
- Students must take a 30-minute lunch.
- Eating and drinking are only allowed in the staff lounge or designated areas.
- Accurately record time in and out during clinical courses. Falsification of any record may result in a grade of F for the course.
- Maintain clinical forms and competency information by either LMS or clinical time management tool.

- All makeup time must be performed during scheduled make-up days.
- All students will maintain clinical log/comp for in their clinical comp system. These will be approved by their clinical preceptor, and the program clinical coordinator.
- Students must be familiar with the clinical site Fire and Code Blue Policy. You may be questioned about it by faculty or staff.
- All students will perform two patient identifiers according to each facility prior to imaging.
- All students will use Universal Precautions with all patients.
- Students will be required to complete updated OSHA, HIPAA per clinical facility. IV class will be taught by Forsyth Tech faculty and practiced at clinical.
- At no time may a student be allowed to use the clinical computer for internet "surfing" or use of social media. Clinical computers may be used with supervision of the clinical site to research screening information, GFR calculations or other information deemed necessary by the site.
- In the event a clinical site requests reassignment of a student for any reason, an investigation will occur and if policies are violated, disciplinary actions and/or dismissal will take place. Students should be aware that if they are dismissed from a clinical site, the MRI program cannot guarantee placement at another facility.
- If the student is asked to leave the clinical site by a staff member and/or Forsyth Tech faculty for any reason, the student should leave the premises immediately. If not, Forsyth Tech or clinical facility security will be called and escort the student off the premises.

2.26 Clinical Dress Code

• Students must be in full clinical uniform during all clinical hours. If a student reports to their clinical site without being in proper uniform, they

will be sent home, and it will be counted as an absence that will have to be made-up.

- The clinical uniform must be consistent with the MRI Program uniform procedures. Shoes must be primarily white or black. If you have questions, please check with the Clinical Coordinator. No crocs or open-toed shoes. Tops must have correct embroidery to identify MRI student. Short white lab coats are optional. If you purchase a lab coat, it must be embroidered with Forsyth Tech MR Program logo. No hoodies or sweat jackets are allowed. Clean uniforms, professional appearance, and attention to personal hygiene are required.
- All students must obtain a Forsyth Technical Community College student ID at the Student Activities/Student Government office in the TEC Building. This must be worn at all clinical facilities. It should state name, MR, Forsyth Tech, Imaging Technologies.
- Hair should be neat and off collar. Males should be clean-shaven. If a beard or moustache is worn, it must be neatly trimmed.
- Jewelry harbors microorganisms that are difficult to remove. To help prevent the transmission of infections and to comply with dress codes in our affiliates, please keep jewelry to a minimum and maintain good infection control practices.
- Patients can be sensitive to odors or have allergies to commonly used perfumes or body sprays. Students should refrain from using scented body products in the clinical setting.
- Any use of tobacco products is prohibited at all clinical facilities. If you are
 found smoking or have chewing tobacco in your mouth, you will be
 dismissed from the clinical site. This may lead to disciplinary actions and
 potentially to dismal from the program.
- Students must be professional in appearance as determined by the Clinical Coordinator. Students must adhere to clinical site policies.
- No cell phones/pagers are allowed in the clinical areas. For urgent issues, notify your clinical preceptor to work out a time for you to check and make phone calls.

2.27 Professional Standards

The MRI Program at Forsyth Tech is committed to producing MRI technologists who will provide the highest quality of care to their patients. Students are expected to always conduct themselves in a professional manner. As a student, you represent the Forsyth Tech MRI Program on the college campus, in all clinical settings, and in any other situation where you might be identified as a Forsyth Tech student. Students will abide by the American Registry of Radiologic Technologist's (ARRT's) Code of Ethics and Rules of Ethics. Students are accountable for their own behavior and are expected to treat all individuals with respect. Students are expected to listen and follow instructions from the faculty, clinical instructor, preceptor, and clinical staff. In the event of any concerns, students are to follow the program's grievance process or FTCC student concern procedure (whichever is most applicable).

Examples of professional behaviors:

- Show initiative, and a positive attitude towards assigned tasks and towards constructive criticism
- Be punctual, use good judgment, and work well independently or with a team.
- Build interpersonal relationships with peers and patients.
- Perform well under pressure and apply effective communication.
- Practice quality patient care and treat everyone with equality, dignity, and respect
- Adhere to HIPAA and Rules and Regulations of OSHA.
- Follow all clinical affiliates, program, and college polices, rules, and regulations.

Any violations of professional standards will be addressed immediately and may result in the student's removal from classroom, laboratory, and/or the clinical setting. Additional measures may also apply at the instructor's discretion. Severe infractions may result in immediate dismissal from the MRI Program. Violations of the Professional Standards are effective for the program's duration and cumulative.

Unethical Behavior Definition:

Unethical behavior is defined as a student exhibiting qualities and characteristics that are inconsistent with the American Society of Radiologic Technologists (ASRT)

Practice Standards for Medical Imaging and Radiation Therapy, the American Society of Radiologic Technologists (ASRT) Code of Ethics for Medical Imaging, the American Society of Radiologic Technologists (ASRT) Code of Ethics for Radiation Therapy, the American Registry of Radiologic Technologists (ARRT) Rules and Regulations, the American Registry of Radiologic Technologists (ARRT) Standards of Ethics, or that violate appropriate moral, ethical, social, and/or legal aspects. Unethical behaviors are in Violation of Professional Standards.

Unethical behavior will include, but not be limited to:

- 1. Violating the patient's rights, including:
 - a. Autonomy
 - b. Privacy
 - c. Confidentiality
 - d. Respect
 - e. Nondiscrimination
 - f. Informed consent
- 2. Professional misconduct including:
 - a. Inappropriate speech and/or tone of voice
 - b. Unprofessional, negative, or disrespectful attitude
 - c. Deliberate violation of clinical affiliate policies, such as student usage of electronic devices in the clinical setting
 - d. Deliberate damage to or mishandling of equipment in lab, class, or the clinical setting
 - e. Defiant behavior with faculty, clinical instructors, clinical staff, and administrators
 - f. Showing no initiative, not participating in lab activities or procedures during clinical

education

- g. Violations of civility (e.g., rude, disrespectful, lewd, indecent, or offensive conduct or apparel)
- h. Falsifying documentation
- i. Violation of dress code policies
- j. Using or being under the influence of alcohol or drugs
- k. Dishonesty, lack of integrity, or irresponsibility
- 1. Engaging in behavior that may result in the clinical site requesting a student to be

removed from the clinical rotation.

3. Violating professional and certification organization policies:

- 1. Practicing outside the Practice Standards for Medical Imaging
- 2. Violating the Forsyth Tech Imaging Department Radiation Safety Plan
- 3. Violating the ARRT Codes of Ethics
- 4. Violating the ARRT Rules and Regulations
- 5. Violating the ARRT Standards of Ethics
 - a. Fraud or deceptive practice
 - b. Subversion
 - c. Unprofessional practice
 - d. Scope of practice violations
 - e. Improper management of patient records
 - f. Failure to report violations or errors
 - g. Violation of state, federal, or regulatory laws
- 4. Violating civil, or criminal law, including:
 - 1. Negligence
 - 2. Assault and/or battery
 - 3. Defamation of character
 - 4. Sexual Harassment
 - 5. Invasion of privacy
 - 6. False imprisonment
 - 7. Malpractice
 - 8. Theft

2.28 Grievance Process

The MRI program abides by the Forsyth Tech student code of conduct and grievance process. This can be accessed at the link below:

https://catalog.forsythtech.edu/2324/page/student-code-of-conduct

2.29 Work Procedure

Students may accept employment with clinical affiliate institutions as transport, clerical or student technologist. The program takes no responsibility for student preparedness but suggests that the clinical competency listings be used to determine independent practice. The scheduled work hours are not to be counted toward fulfillment of clinical course hours.

While Forsyth Tech's MR program does not control student employment in the radiology departments of its clinical affiliates or other areas, the following statements should be adhered to by all students enrolled: At no time should a student in the program be on-site working as an employee of the clinical affiliates while enrolled in regularly scheduled MR Program classes/labs/clinical that occur concurrently.

2.30 Unsafe Practice Procedures

During enrollment in the MRI Program, all students in all clinical activities are expected to adhere to professional standards of safe clinical practice regarding facility policy, program policy and equipment use. Unsafe clinical practice includes any omission or deliberate unsafe clinical behavior or act that endangers a patient, a clinical site employee, program faculty, other students, or yourself regardless of whether actual injury is established. If an unsafe clinical conduct is observed, the following actions will be taken:

- The student will be immediately removed from the instructional setting and the Clinical Coordinator will be notified.
- The observation of the unsafe situation will be documented immediately and submitted to the Clinical Coordinator.
- A copy of the report will be submitted to the Program Coordinator.

Students demonstrating conduct which conflicts with safe practice may be immediately withdrawn from the MRI Program with a course grade of 'F.' In order to be considered for readmission to the program, the student will follow the readmission process outlined in the MRI Program Student Handbook and will make an appointment with the Program Coordinator for remediation. If the student does not concur with the recommendation regarding enrollment status, they may follow the Imaging Appeal Process. Revised August 12, 2024

2.31 Imaging Program Attendance Policy

Students are expected to be present in every course and lab, and clinical assignment designated by the instructor for the semester. Course-specific syllabi should have specific attendance guidelines.

If the student exceeds the number of allowed absences for a course as indicated by the course-specific syllabus, the student must meet with the course instructor.

- If the student's excessive absence is considered excused, the instructor and student will meet to discuss the absences and possible remediation.
- If the student's excessive absence is unexcused, the student will receive an "F" for the course and subsequently be dismissed from the program. The student may apply for readmission following the Re-admission policy.
- Students who are tardy will receive a policy violation notification.
- Students who incur a third tardy will be subject to a 1-point deduction of their final course grade.
- Every subsequent tardy will include a 1-point deduction from the final course grade.
- Each tardy will be calculated cumulatively for each individual course.

2.32 Imaging Appeal Process

Any appeal of a course grade should begin with a scheduled conference between the student and instructor of record by the first day of a new semester. If the appeal is not resolved at this level, the student should contact and arrange for a conference with the program coordinator. The student has the responsibility of providing the program coordinator with a written letter of appeal by the third day of the new semester for the appeal to be considered.

The letter of appeal must include:

- Date, student's name, signature, and telephone number.
- Prefix and number of course grade being appealed.
- Instructor of record's name issuing the grade.
- A letter of three pages or less containing factual and valid reasons why the student thinks the grade is incorrect. The program coordinator may return the letter to the student to clarify, to add information or to state reasons for the appeal. The revised letter must be returned to the program coordinator within two working days.
- Any supporting documentation the student feels is needed to better explain the student's questions as to grade determination.

After conferencing with the program coordinator, if the issue is still not resolved, the student will notify the Department Chair of Imaging to schedule a meeting. The meeting will take place within two business days.

After conferencing with the Department Chair of Imaging, if the issue is still not resolved, the student will notify the Associate Dean of Health Sciences to schedule a meeting. The meeting will take place within two business days.

If the issue is still not resolved, the student may appeal to the V.P. of Health Sciences in writing (within two business days of meeting with Associate Dean of Health Sciences). The Associate Dean of Health Sciences will forward the letter of appeal and supporting documentation to the V.P. of Health Sciences. The V.P. of Health Sciences will then convene a committee (within three business days) to hear the appeal. The committee may reject the appeal if policies and procedures have not been followed by the student.

The committee will hear the appeal and make a final decision (within three business days) which will be reported to the V. P. of Health Sciences. Within 24 hours of receiving the information, the V. P. of Health Sciences will communicate the committee's decision to the student, the program coordinator, the Department Chair of Imaging, and the Associate Dean of Health Sciences. The decision of the committee is final.

2.33 Imaging Academic Dismissal Policy

Students may be dismissed from an imaging program due to non-compliance with critical requirements, policies and procedures within the handbook and/or course syllabi including policy violations and/or failing to uphold the academic integrity of the imaging program's grading policies. If a student is dismissed, they may seek to appeal by following the appropriate appeal process within this handbook. The dismissed student may be eligible to reapply by following the steps for Re-admission.

Revised September 12, 2024

2.34 Imaging Non-academic Appeal Process

Any non-academic appeal of an imaging program dismissal should begin with a scheduled conference between the student and instructor of record by the first day of a new semester. If the appeal is not resolved at this level, the student should contact and arrange for a conference with the program coordinator. The student has the responsibility of providing the program coordinator with a written letter of appeal by the third-class day of the new semester for the appeal to be considered.

The letter of appeal must include:

- Date, student's name, signature, and telephone number.
- A letter of three pages or less containing factual and valid reasons why the student thinks the dismissal is not valid. The program coordinator may return the letter to the student to clarify, to add information or to state reasons for the appeal. The revised letter must be returned to the program coordinator within two business days.
- Any supporting documentation the student feels is needed to better explain the student's questions as to dismissal determination.

After conferencing with the program coordinator, if the issue is still not resolved, the student will notify the Department Chair of Imaging to schedule a meeting. The meeting will take place within two business days.

After conferencing with the Department Chair of Imaging, if the issue is still not resolved, the student will notify the Associate Dean of Health Sciences to schedule a meeting. The meeting will take place within two business days.

If the issue is still not resolved, the student may appeal to the V.P. of Health Sciences in writing (within two business days of meeting with Associate Dean of Health Sciences). The Associate Dean of Health Sciences will forward the letter of appeal and supporting documentation to the V.P. of Health Sciences. The V.P. of Health Sciences will then convene a committee (within three business days) to hear the appeal. The committee may reject the appeal if policies and procedures have not been followed by the student.

The committee will hear the appeal and make a final decision (within three business days) which will be reported to the V. P. of Health Sciences. Within 24 hours of receiving the information, the V. P. of Health Sciences will communicate the committee's decision to the student, the program coordinator, the Department Chair of Imaging, and the Associate Dean of Health Sciences. The decision of the committee is final.

Revised September 12, 2024

2.35 Readmission Process for Imaging Programs:

 Any student who has successfully completed the first semester of an imaging program and is eligible to re-apply must complete the re-admission policy process.

- A student that is unsuccessful during the first semester of an imaging program and wants to re-apply must complete the entire admission process, including submitting the MAR application and following the selective admission guidelines.
- Readmission Policy Process:
- Students applying for re-admission must first write a letter to the Program Coordinator stating the reasons they desire to be readmitted and the change of circumstances that will allow them to successfully complete the program.
- Upon receipt of the letter, the following guidelines will be used in making the decision regarding re-admission:
 - The Program Coordinator will determine the eligibility for re-admission.
 - Readmission is always conditional on the availability of clinical space.
 - Any student with a history of repeated documented clinical behavior issues, or repeated didactic performance issues, or where student performance indicates the likelihood of successful program completion is poor, may be denied re-admission.
 - o Any student who has been denied access to a clinical site for clinical rotations, according to program policy, may not be readmitted.
 - Any student seeking re-admission must meet with the Program Coordinator, and faculty, if appropriate, to be informed of the stipulations necessary for re-admission. At this meeting, formal documentation will be provided, reviewed, and signed.
 - Any student seeking re-admission must meet all college and program admission requirements for the cohort they will be joining.
 - A student will not be allowed to register for any imaging program courses until they have been readmitted to the program.
 - o If a change has occurred in the program's curriculum (i.e., sequencing, prerequisites, new courses, electives, etc.) the student may be required to repeat course(s) and/or semester(s) to meet graduation requirements if readmitted.
 - Courses listed as concurrent in the catalog must be repeated in that manner.
 - A student may be required to repeat or audit previous imaging courses(s) taken while in the program regardless of previous grade earned. The student will be responsible for any cost involved.
 - There may be additional costs involved with joining the new cohort (i.e., uniforms, new criminal background, drug screening, medical

- forms, clinical onboarding software, malpractice insurance, CPR, etc.). The student will be responsible for any cost involved.
- A student will only be permitted one re-admission to the same imaging program. After two unsuccessful attempts in the same imaging program, the student will be referred to the Counseling Center for Career Guidance.
- Any student determined to be ineligible for re-admission will be notified in writing by the Program Coordinator.

Revised August 12, 2024

2.36 Medical Emergency & Student Safety in the Clinical Setting

Procedure for a medical emergency will be identified at all clinical sites during the orientation process. Students will review their sites policies during clinical orientation and complete the associated labs during didactic classes at Forsyth Tech. While students are not expected to direct emergency protocols, they should be competent to facilitate safe practices for themselves, clinical patients, and staff.

Health Technologies Student Accident or Exposure Guidelines When in the Clinical Setting:

The following guidelines are to be followed in the event of a student injury or inadvertent exposure to blood and/or body fluids, or other infectious material via needle while in the clinical setting. If a blood or body fluid exposure occurs, the affected area should be washed with soap and water immediately.

- Notify the Clinical Instructor/Preceptor or designated person immediately.
- The Clinical Instructor/Preceptor or designated person will notify the clinical facility unit leader or course lead instructor.
- A clinical site incident report must be filled out and submitted to the facility unit leader.
- A college incident form must be completed within 24 hours and submitted to campus police (a copy of the form is to be
- shared with the program's Associate Dean and Dean of Health Technologies).
- The student may seek medical attention at the facility of their choice (emergency room, Novant Health Occupational Health (2337 Winter Haven Lane,

Winston-Salem). Faculty should not transport students in their personal vehicle.

- The student should advise the facility where they seek medical attention that the charges should be filed with the student's insurance company as the primary payer and the college insurance will be the secondary payer (if student does not have health insurance the college will be the primary payer).
- If the student does require the college's insurance to cover any part of the cost, they must complete the College's insurance claim form obtained from the course lead instructor (or program coordinator). The claim form must be submitted to Human Resources.

2.37 Limitation of Patient Care/Scope of Practice/Safe Practice

- 1. Splints, bandages, traction, or braces, and medication patches cannot be removed without the physician's permission. Never administer oxygen without a doctor's order. Student technologists should not adjust IV fluids and related pumps/devices.
- 2. Food and medication are frequently under the purview of a physician's order for several reasons during treatment. Students should never make unilateral decisions about food or drink without consulting the patient's chart or physician. Students are not allowed to dispense or approve medication of any kind.
- 3. The image results cannot be discussed with any unauthorized individuals: friends, family, and other patients. Authorized Personnel: Physician, clinician, imaging professionals or facility personnel who need pertinent information.
- 4. Students should never keep valuables for a patient. All patient possessions must be stored per the clinical facility procedures.
- 5. Critically ill patients require immediate and constant attention. Students should follow the clinical site policies and procedures for all patient care and monitoring tasks.

2.38 Fire Safety

If a fire should occur at the clinical site, remember the abbreviation- *RACE*.

R - Rescue A - Alarm In the event of a fire, rescue patients, yourself, and co-workers.
If you see smoke or see a fire, report the nature of the problem. If you

cannot use the telephone safely, pull the nearest fire alarm.

C - Contain - Close windows and doors, as you leave the area.

E - Extinguish - Fire extinguishers are located throughout each clinical site. Learn

the location of fire extinguishers in your area. Remember, these fire

extinguishers are only designed to put out small fires.

Procedure for reporting a fire, at all clinical sites, will be identified for students during the orientation process.

2.39 Direct/Indirect Supervision of MRI Students in Clinical

This procedure serves to identify the current guidelines for clinical supervision of Magnetic Resonance Imaging students in reference to the direct and indirect provisions stated in the Standards for an Accredited Educational Program in Health Sciences.

Direct Supervision

All students performing Magnetic Resonance Imaging procedures must do so under direct

supervision. The parameters of direct supervision are:

- A registered technologist reviews the request for examination and the scanning protocol with the student.
- A registered technologist evaluates the condition of the patient.
- A registered technologist is always present during the performance of the examination to offer advice and assistance to the student if needed.
- A registered technologist reviews and approves all images.
- A registered technologist is present during any rescanning procedures.

Indirect Supervision

<u>No provisions</u> are established for the performance of Magnetic Resonance Imaging under indirect supervision. An MRI registered technologist must be present during the student clinical exam performance.

2.40 Graduation and Degree conference

Students who are ready to complete the program have 72 hours (about 3 days) of core MRI courses with a grade of 75% or higher in each. There are also approximately 35-40 hours (about 1 and a half days) of general education course that must be completed for an AAS to be awarded. Many students have hours and courses from other colleges and should be proactive towards getting any applicable

courses transferred. Policies concerning academic standing, transcripts and transfer credits can be accessed on the FTCC student affairs website https://www.forsythtech.edu/students/apply/transcripts/.

Upon successful completion of the AAS MRI program, students will be approved to sit for the ARRT licensing exam and move to the next phase of their MRI journey.

2.41 Forsyth Technical Community College Health Technology Programs Student Consent and Release

Student's full name (Print)	
General Policies	
I have received/given access to the MRI/Forsyth Tech Student Handbook and e-catalog. I have read and understand the policies outlined in the MRI and Forsyth Tech Student Handbook and e-catalog. I agree to abide by these policies. I understand the repercussions for failure to abide by these policies.	
Student Signature:	Date:
Media Release	
Pictures of students are taken to display them on MRI Program bulletin boards and Policy Books. Occasionally photos are taken in lab or classroom settings for school advertising purposes. I hereby grant permission for a photograph to be taken of myself, and to be displayed on bulletin boards, Forsyth Tech website or publications, or in a slide show.	
Student Signature:	Date:
Skill Assessment and Partner Care Consent	
I am aware that as part of my education in the MRI Program I may be required to serve as a patient for fellow students. Physical contact made during all class/laboratory/clinical experiences in which I participate, serving as a patient or practitioner, will be done in a professional, safe, supervised, and respectful manner.	
Student Signature:	Date:
Release of Information to Clinical Agencies	
I am aware that as part of my education in the MRI Program the clinical agencies may require the release of personal and demographic information which will be provided by me. I authorize Forsyth Technical Community College to release the information on my behalf as requested by the individual agencies.	
Student Signature:	Date:
	•
Reference for Employment or Schools	
I hereby grant permission to the MRI Program to serve as a reference for future employers and/or schools.	
Student Signature:	Date: