Technical Standards for Magnetic Resonance Imaging

Our program technical standards were developed to help students understand nonacademic standards, skills, and performance requirements expected of a student to complete this curriculum.

If an accommodation is necessary to participate in the program, it is imperative to identify reasonable accommodations to those students who qualify under the Americans with Disabilities Act (ADA). Reasonableness is determined by the Accessibility Resources Counselors and the program on a case-by-case basis utilizing the program technical standards. The accommodation must be in place before the start of the program, or it may delay your ability to start it. It is the student's responsibility to contact Accessibility Resources and request accommodation.

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.

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Skills	Description	Specific Examples
		• Recognize window and leveling on images, and ascertain anatomy, and pathological structures
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)

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Skills	Description	Specific Examples
		• Recognize and report critical patient information to other caregivers
Critical Thinking/ Problem Solving	Critical thinking and problem-solving skills sufficient for sound clinical judgment during the performance of radiography	• Organize and accurately perform in proper sequence, and within a 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	• 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

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Skills	Description	Specific Examples
	always use appropriate precautions and practice MRI safety procedures.	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
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

This document is intended to serve as a guide regarding the physical, emotional, intellectual, and psychosocial expectations placed on a student. This document cannot include every conceivable action, task, ability, or behavior that may be expected of a student. Meeting these technical standards does not guarantee employment in this field upon graduation. The ability to

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meet the program's technical standards does not guarantee a student's eligibility for any licensure, certification exam, or successful completion of the degree program.