

CT Imaging Technology – Technical Standards

Our program technical standards have been developed to help students understand nonacademic standards, skills, and performance requirements expected of a student in order to complete this particular curriculum. Computed Tomography integrates scientific knowledge, technical competence,

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

SKILLS	DESCRIPTION	SPECIFIC EXAMPLES
Cognitive Skills	<ol style="list-style-type: none"> 1. Critical thinking Ability sufficient for safe clinical judgment 2. Possess satisfactory intellectual and emotional functions to analyze information obtained during assessment to develop an action plan for patient care and completing the procedure 3. Exercise independent judgment and discretion in the technical performance of CT imaging 	<ol style="list-style-type: none"> 1.1. Function safely and effectively in high stress situations 1.2. Maintain composure while managing multiple tasks simultaneously 1.3. Assess patient condition and needs 2.1. Identify cause-effect relationships in clinical situations 2.2. Initiate proper emergency care protocols based on assessment data 3.1. Evaluate images to ascertain diagnostic quality 3.2. Select technical factors and accessory devices for examinations with consideration of patient size, age, and extent of disease

SKILLS	DESCRIPTION	SPECIFIC EXAMPLES
Interpersonal Skills	<ol style="list-style-type: none"> 1. Possess adequate interpersonal skills sufficient to interact with individuals, families, and groups from a variety of social, emotional, cultural, and intellectual backgrounds regardless of age and physical condition 	<ol style="list-style-type: none"> 1.1. Display patience, empathy, and concern for others 1.2. Deal with fear and hostility in a calm manner 1.3. Work with others in stressful situations
Communication Skills	<ol style="list-style-type: none"> 1. Communication abilities sufficient to interact with others using written, verbal, and nonverbal methods to articulate information in a prompt, coherent, and concise manner 2. Must be able to follow spontaneous verbal and written instructions 	<ol style="list-style-type: none"> 1.1. Communicate patient instructions in a prompt, clear, and concise manner 1.2. Accurately document pertinent patient history and exam information 1.3. Document actions and responses when indicated 2.1. Gather relevant information from the patient, medical record, significant others, and health care providers
Mobility Skills	<ol style="list-style-type: none"> 1. Physical abilities sufficient to move independently with a normal range of motion 2. Must be able to bend, crouch, squat, kneel, balance, reach above head, and twist at waist 3. Must be able to stand, sit, or walk for extended periods 	<ol style="list-style-type: none"> 1.1. Respond promptly to patient needs 1.2. Manipulate equipment 2.1. Respond promptly to patient needs 2.2. Ability to manipulate equipment 2.3. Perform palpation, assessment, and manipulation of anatomy to insure proper patient position and alignment 3.1. Respond promptly to patient needs 3.2. Manipulate equipment 3.3. Lift a minimum of 30 pounds 3.4. Exert a sustained force of 20 pounds

SKILLS	DESCRIPTION	SPECIFIC EXAMPLES
		3.5. Participate in a team move of an incapacitated patient weighing 150 pounds, ensuring patient safety
Motor Skills	1. Gross and fine motor abilities sufficient to safely and effectively perform job tasks and respond to patient needs	1.1. Ability to grasp, hold, grip, seize, turn, or otherwise manipulate equipment with hands
Sensory Skills	1. Hearing perception sufficient to monitor and assess patient needs and equipment operation 2. Visual acuity sufficient to observe and assess patient needs and equipment operation 3. Tactile ability sufficient to assess patient condition and operate equipment	1.1. Hear a patient speaking in a normal tone without the use of hearing assistive devices 1.2. Detect and evaluate monitor alarms and equipment alerts 2.1. Observe and monitor patients 2.2. Evaluate images for technical and diagnostic quality 3.1. Perform palpation, tactile assessment, and manipulate anatomy to insure proper placement and alignment 3.2. Manipulate computer mouse, pressure sensitive response pads, dials, buttons, and switches

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. Ability to 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.