



Charles R. Drew University of Medicine and Science Radiologic Sciences Department

Technical Standards

Medical imaging education requires the accumulation of medical knowledge, and the acquisition of clinical skills, professional attitudes, and behaviors. Successful completion of the program requires the student to utilize intellectual ability and maintain emotional stability in high-stress environments common to healthcare and healthcare training. This curriculum requires demonstrated proficiency in a variety of cognitive, effective and psychomotor skills.

Receipt of an Associate or Bachelor of Science degree from the Radiologic Sciences Department indicates that the student is prepared to enter the practice of science. To ensure that students provide excellence in patient care, it is essential that students meet minimum academic and technical standards prior to matriculation.

Charles R. Drew University and the Radiologic Sciences Department are committed to the principle of equal opportunity. Both the University and the Program do not discriminate on the basis of race, color, creed, national origin, gender, sexual orientation, age, marital status, or disability. When requested and approved through the office of the Dean for the College of Science and Health, the program will provide reasonable accommodation to otherwise qualified students with disabilities. Reasonable accommodations are modifications that do not result in undue financial or administrative burden to the Radiologic Sciences Department. Accommodations must not prevent the student from meeting the Technical Standards and graduation requirements for the Radiologic Sciences Program. Please review Disability Resources website at <https://www.cdrewu.edu/student-services/accessibility/> and the University Catalog at: <https://www.cdrewu.edu/offices/registrar/>.

Applicants with the following issues may not be accepted for admission into the program:

- Health problems of a recurring and unpredictable nature that produce a serious impairment of cognitive, psychological, or physical function.
- Diseases that are communicable or poorly controlled, incurable by present standards and produce a serious impairment of cognitive, psychological, or physical function.
- Diseases that may be treatable but where the treatment itself is known to produce a serious impairment of cognitive, psychological, or physical function.
- Diseases significantly affecting neuromuscular coordination, tactile sensitivity, and general or specific paralysis of the upper extremity.



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All students should have the following:

- Sufficient posture control, neuromuscular control and eye-hand coordination to effectively use portable and similar equipment required to perform patient evaluations and interpretation of diagnostic studies such as radiographs.
- Sufficient visual and auditory perception and the mental capacity to assimilate large volumes of detailed and complex information presented in formal lectures, small group discussion, individual teaching settings and practical laboratory or clinical experiences.
- Sufficient communication skills to:
 - Elicit all components of a medical history from patients with a wide range of literacy.
 - Perform the history-taking task at a pace that would not pose a potential hazard to the patient.
 - Transmit findings quickly and effectively as may be necessary in the medical setting.
 - Initiate emergency measures on a verbal basis.
- Effectively interact in two-way communication with patients to provide and clarify information and reduce apprehension.
- To work effectively in a clinical situation, the student is expected to adequately perform a number of technical functions required of the practicing technologist. Such functions include, but are not limited to, those of the special senses that allow for examination of the patient. Those persons deprived of their special senses to the point they cannot recognize normal versus abnormal may not be able to acquire sufficient factual material to assess accurately a patient's health status. This ability to differentiate is fundamental for the practicing technologist. Students must also have sufficient motor skills to respond promptly in an emergency.

Radiologic Sciences students are expected to meet all the standards outlined here. Students who develop conditions while in the program which may impair their ability to meet the technical standards, will be reevaluated. If the student's abilities appear to be compromised, the program may request a physical assessment of the student's cognitive, psychological, or physical ability. The student assumes any cost for this evaluation. After review of available information, the program may terminate a student's enrollment if the student does not meet the technical standards.



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In summary, every precaution is taken to ensure that students with substantially impaired intellectual, physical, or emotional functions do not place the educational process, themselves or patients in jeopardy. All students awarded a degree from the Charles R. Drew University Radiologic Sciences Department must meet the basic technical standards for practice.

Summary of Required Skills

- **Observation Skills:** Radiologic Sciences students must be able to observe and actively participate in demonstrations and experiments in the basic sciences, visual presentations in lectures and laboratories, and laboratory diagnostic procedures. The Radiologic Sciences student must be able to observe a patient accurately and completely at a distance and at a close range (within a few feet of the observer). Observation necessitates the functional use of special senses.
- **Communication Skills:** Radiologic Sciences students must be able to communicate clearly so that it is understandable to a listener in order to elicit information, perceive non-verbal communication and describe changes in patient behaviors. The Radiologic Sciences student must demonstrate active listening and be able to communicate effectively and sensitively with patients.
 - Communication includes not only speech but also reading and writing. Communication in oral and written form with the health care team must be effective and efficient.
- **Motor Skills:** Radiologic Sciences students must be able to demonstrate sufficient motor function to execute movements reasonably required to provide general care and treatment of patients such as diagnostic procedures and documentation. Such skills require coordination of both gross and fine muscular movements, equilibrium and functional use of the special senses.
- **Intellectual, Conceptual and Quantitative Skills:** Radiologic Sciences students must be able to demonstrate sufficient calculation, reasoning, analysis, synthesis, problem solving and critical thinking skills.
- **Behavioral and Social Skills:** Radiologic Sciences students must demonstrate the emotional and mental health required for full utilization of his/her intellectual abilities, the exercise of good judgment, the prompt completion of all responsibilities attendant to the care of patients and the development of mature, sensitive and effective relationships with patients. The Radiologic Sciences student must be able to tolerate physically and mentally demanding workloads, effectively carry out responsibilities and to function effectively under stress. The Radiologic Sciences student must be able to adapt to changing environments, to display flexibility and to learn to function in the face of uncertainty inherent in the clinical problems of many patients. The Radiologic Sciences student must be capable of developing constructive and cooperative working relationships with others.
- **Physical Skills:** Radiologic Sciences students must demonstrate the physical ability to learn and implement the various technical skills required by the program. The Radiologic Sciences student must possess an adequate range of body motion and mobility, with or without accommodation to perform the following essential functions: prolonged periods of sitting and/or standing, bending and stooping and the ability to lift up to 50 pounds. Physical demand requirements are in excess of those for sedentary work.