RADIOLOGIC TECHNOLOGY

Associate of Applied Science Degree: Radiologic Technology

Certificate of Completion: Computed Tomography

Radiologic Technologists are an important part of the medical team. They produce medical images (radiographs), carry out diagnostic procedures, determine safe radiation exposure limits, and collect technical data necessary to assess client (patient) status. Job prospects in the Las Cruces/El Paso area are occasionally limited, but nationwide there is faster-than-average job growth with many opportunities for persons seeking entry-level positions.

Students in the Radiologic Technology program receive training both in the classroom and in clinical settings, where they work alongside nurses, physicians, and other health-care professionals. In the classroom, students learn about the anatomy and function of the human body, radiographic physics and equipment, and radiographic procedures. Students acquire skills in radiation protection for the patient and for the health professional. Laboratory activities teach the proper positioning of an injured or ill patient. Clinical work offers students training in diagnostic radiology and introduces the student to various other imaging modalities. The clinical work is offered in Las Cruces, T or C, Alamogordo, Artesia, Carlsbad, Deming, Ruidoso, Silver City, and El Paso.

Graduates of the program are eligible to take (and must pass) the American Registry of Radiologic Technologists (ARRT) national certification exam in order to obtain employment in this field. It should be noted that felony or misdemeanor convictions may make a student ineligible to take the ARRT exam. Many states also require a license to practice as a radiographer in that state. Continuing education is required with both the ARRT and state licenses to retain current certification status. Recertification is required every ten (10) years in order to maintain ARRT national certification.

The DACC Radiologic Technology program is fully accredited by the Joint Review Committee on Education in Radiologic Technology.

Special Admissions Criteria

Radiologic Technology is a limited-entry program. Prior to applying to the program, students will have taken all program Core and Related Requirements. The following items are among the criteria considered in the selection of program applicants:

- Minimum overall college GPA depends on TEAS assessment (3.0 with > 60% of TEAS or 3.3 with < 60% on TEAS)
- TEAS assessment test
- GPA in Core and Related Requirements courses
- County of residence
- Completion of advanced science or math courses
- Second or third application with a 3.4 GPA
- Students must pass background check, FBI fingerprint and drug screen
- Successful completion of interview process

A complete list is included in the application packet, available at the Health and Public Services Office in room DAHL-190 (575) 527-7630.

Required Skills and Abilities

Students should be able to demonstrate good oral expression (speech clarity), written comprehension, near vision, critical thinking skills, and physical stamina (e.g., the ability to stand for long periods of time, manipulate radiographic equipment, and move/lift patients).

DACC Radiologic Technology Mission

The mission of the DACC Radiologic Technology Program is to provide the student with the academic knowledge and clinical skills necessary to attain eligibility for certification and meaningful employment in the diagnostic imaging profession.

NOTE: Students in the Radiologic Technology program are required to complete and pass a security background check, FBI fingerprinting, and drug screening in order to participate in clinical education classes. Past criminal violations may prevent a student from completing the degree and gaining employment in the field.

Certificate Program in Computed Tomography

Computed Tomography (CT) is a branch of radiology that employs specialized radiography equipment to produce sectional images of the human anatomy. The CT technologist performs various diagnostic procedures under the supervision of a licensed radiologist or in most cases, a licensed technologist. In order to produce quality images, the CT technologist must be able to work effectively with patients and health professionals, operate sophisticated computer equipment, and observe radiation protection measures. Job prospects in the Las Cruces/El Paso area are occasionally limited, but nationwide there is faster-than-average job growth with many opportunities for persons seeking entry-level positions.

Graduates of the program are eligible to take the American Registry of Radiologic Technologists (ARRT) National Computed Tomography Certification Exam. It should be noted that felony or misdemeanor convictions may make a student ineligible to take the ARRT exam. Many states also require a license to practice as a radiographer in that state. Continuing education is required with both the ARRT and state licenses to retain current certification status.

Special Admission Requirements

In order for students to be admitted to the CT program, they must be certified by the American Registry of Radiologic Technologists (ARRT) in Radiologic Technology, Radiation Therapy, or Nuclear Medicine. Nuclear medicine technologists may also be certified by the ARRT or by the Nuclear Medicine Technologist Certification Board (NMTCB). The program is offered online in order to allow students from all over New Mexico and other parts of the country to enroll. Each cohort of students admits up to 12+ students per new class offering. The student must have a minimum overall college GPA of 3.0.

NOTE: Students in the Computed Tomography program are required to complete and pass a security background check, FBI fingerprinting, and drug screening in order to participate in clinical education classes. Past criminal violations may prevent a student from completing the degree and gaining employment in the field.

Required Skills and Abilities

The student will acquire and develop the education and skills necessary to perform as an entry-level computed tomography technologist.

The student will develop learning habits that will demonstrate a commitment to professional and personal growth by participating in professional activities and continuing education.

The student will understand and apply methods for effective problem-solving, critical thinking, and communication skills.

Important Facts About This Certificate Program

For information concerning the total cost, financing, time to completion, and job placement rates associated with this program, visit the following web page: https://dacc.nmsu.edu/academics/programs/radiologic-technology/index.html (https://dacc.nmsu.edu/academics/programs/radiologic-technology/)

Associate of Applied Science: Radiologic Technology (https://catalogs.nmsu.edu/dona-ana/academic-career-programs/radiologic-technology/radiologic-technology-associate-degree/)

Computed Tomography - Certificate of Completion (https://catalogs.nmsu.edu/dona-ana/academic-career-programs/radiologic-technology/computed-tomography-certificate-completion/)

RADT 100. Introduction to Radiologic Technology and Patient Care
3 Credits (3)
Overview of the profession, including ethics, terminology, and basic radiation protection. Addresses basic and specialized procedures and topics related to the care of the patient. Restricted to: Community Colleges only. Restricted to Majors.

Learning Outcomes

1. Students will demonstrate the ability to produce diagnostic radiographic images safely.
2. Students will demonstrate effective communication skills.
3. Students will accurately document/record data in accordance with clinical site policies and procedures.
4. Students will demonstrate the ability to use independent judgment.
5. Students will conduct themselves professionally to function effectively as healthcare team members.

RADT 101. Radiographic Positioning I
2 Credits (2)
Covers radiographic procedure and positioning concepts, techniques, terminology, and mechanics related to the thorax, abdomen, extremities, spine and pelvis. Includes positioning lab and clinical observation.

Learning Outcomes

1. Students will demonstrate the ability to produce diagnostic radiographic images safely.
2. Students will be able to position patients and identify radiographic anatomy and pathological conditions appropriately.
3. Students will demonstrate effective communication skills.
4. Students will accurately document/record data in accordance with clinical site policies and procedures.
5. Students will demonstrate the ability to use independent judgement.
6. Students will analyze radiographic images for technical and positioning accuracy to make modifications as needed.

RADT 101 L. Radiographic Positioning I Applied Clinical Skills
1 Credit (3P)
Applied clinical skills lab in radiographic procedures and positioning concepts, techniques, terminology, and mechanics related to the thorax, abdomen, extremities, spine and pelvis.
Corequisite: RADT 101.

Learning Outcomes

1. Students will demonstrate the ability to produce diagnostic radiographic images safely.
2. Students will be able to position patients and identify radiographic anatomy and pathological conditions appropriately.
3. Students will demonstrate effective communication skills.
4. Students will accurately document/record data in accordance with clinical site policies and procedures.
5. Students will demonstrate the ability to use independent judgement.
6. Students will analyze radiographic images for technical and positioning accuracy to make modifications as needed.

RADT 102. Radiographic Positioning II
2 Credits (2)
Continuation of RADT 101. Includes skull, gastrointestinal, urinary, reproductive, biliary systems, and more advanced skeletal positions. Includes positioning lab and clinical observation. Restricted to: Dona Ana campus only. Restricted to Majors.
Prerequisite: RADT 101.

Learning Outcomes

1. Students will demonstrate the ability to produce diagnostic radiographic images safely.
2. Students will be able to appropriately position patients, identify radiographic anatomy and pathological conditions.
3. Students will demonstrate effective communication skills.
4. Students will accurately document/record data in accordance with clinical site policies and procedures.
5. Students will demonstrate the ability to use independent judgment.
6. Students will analyze radiographic images for technical and positioning accuracy to make modifications as needed.
7. Students will conduct themselves professionally to function effectively as healthcare team members.

RADT 102 L. Radiographic Positioning II Applied Clinical Skills
1 Credit (3P)
Continuation of RADT 101. Applied Clinical Skills lab: Includes skull, gastrointestinal, urinary, reproductive, biliary systems, and more advanced skeletal positions.
Corequisite: RADT 102.

Learning Outcomes

1. Students will demonstrate the ability to produce diagnostic radiographic images safely.
2. Students will be able to position patients and identify radiographic anatomy and pathological conditions appropriately.
3. Students will demonstrate effective communication skills.
4. Students will accurately document/record data in accordance with clinical site policies and procedures.
5. Students will demonstrate the ability to use independent judgment.
6. Students will analyze radiographic images for technical and positioning accuracy to make modifications as needed.
7. Students will conduct themselves professionally to function effectively as healthcare team members.

RADT 103. Introduction to Radiographic Imaging
2 Credits (2)

Provides the student with an in-depth knowledge of radiographic exposure technique and the factors affecting radiographic image quality. Restricted to majors.

Learning Outcomes

1. Students will demonstrate the ability to produce diagnostic radiographic images safely.
2. Students will demonstrate effective communication skills.
3. Students will analyze radiographic images for technical and positioning accuracy to make modifications as needed.

RADT 103 L. Intro to Radiographic Imaging Applied Clinic Skills
1 Credit (3P)

Applied clinical skills lab to provide the student with an in-depth knowledge of radiographic exposure technique and the factors affecting radiographic image quality. Restricted to majors.

Corequisite: RADT 103.

Learning Outcomes

1. Students will demonstrate the ability to produce diagnostic radiographic images safely.
2. Students will demonstrate effective communication skills.
3. Students will analyze radiographic images for technical and positioning accuracy to make modifications as needed.

RADT 104. Special Radiologic Modalities
3 Credits (3)

Discussion of various special procedures used in medical imaging such as, angiography, ultrasound, computerized tomography, magnetic resonance imaging, digital imaging, nuclear medicine, radiation therapy, etc. Restricted to RADT Majors. Restricted to Community College Campuses

Prerequisite: RADT 103.

Learning Outcomes

1. Students will be able to position patients and identify radiographic anatomy and pathological conditions appropriately.
2. Students will demonstrate appropriate and effective communication skills.
3. Students will conduct themselves professionally to function effectively as healthcare team members.

RADT 105. Radiographic Physics and Equipment
3 Credits (3)

Fundamentals of radiographic physics and imaging theory. Includes the atom, electromagnetism, x-ray production and interaction, electric x-ray circuitry, digital fluoroscopic units and digital x-ray equipment, and quality assurance/control. With brief overview of mammography, computed tomography (CT), and MRI imaging.

Prerequisite/Corequisite: C- or above in RADT 103.

Learning Outcomes

1. Students will demonstrate the ability to produce diagnostic radiographic images safely.
2. Students will demonstrate the ability to use independent judgment.
3. Students will analyze radiographic images for technical and positioning accuracy to make modifications as needed.

RADT 110. Radiographic Pathology
3 Credits (3)

Overview of pathology demonstrated by radiographic procedures. Restricted to RADT majors.

Prerequisite: RADT 154.

Learning Outcomes

1. Students will be able to position patients and identify radiographic anatomy and pathological conditions appropriately.
2. Students will analyze radiographic images for technical and positioning accuracy to make modifications as needed.
3. Students will demonstrate the ability to use independent judgment.

RADT 111. Radiographic Positioning I Practicum
1 Credit (4P)

Practicum in radiographic procedures and positioning concepts, techniques, terminology, and mechanics related to the thorax, abdomen, extremities, spine and pelvis.

Corequisite: RADT 101.

Learning Outcomes

1. Students will demonstrate the ability to safely produce diagnostic radiographic images.
2. Students will be able to position patients and identify radiographic anatomy and pathological conditions appropriately.
3. Students will demonstrate effective communication skills.
4. Students will accurately document/record data in accordance with clinical site policies and procedures.
5. Students will demonstrate the ability to use independent judgement.
6. Students will analyze radiographic images for technical and positioning accuracy to make modifications as needed.

RADT 112. Radiographic Positioning II Practicums
1 Credit (4P)

Continuation of RADT 101. Practicum: Includes skull, gastrointestinal, urinary, reproductive, biliary systems, and more advanced skeletal positions.

Corequisite: RADT 102.

Learning Outcomes

1. Students will demonstrate the ability to produce diagnostic radiographic images safely.
2. Students will be able to position patients and identify radiographic anatomy and pathological conditions appropriately.
3. Students will demonstrate effective communication skills.
4. Students will accurately document/record data in accordance with clinical site policies and procedures.
5. Students will demonstrate the ability to use independent judgment.
6. Students will conduct themselves professionally to function effectively as healthcare team members.
7. Students will conduct themselves in a professional manner to function effectively as a member of the healthcare team.

RADT 154. Radiographic Anatomy and Physiology
3 Credits (3)

Basic A&P for radiographic application. Includes a systems approach to body structures and organs as they relate to anatomical projections, radiographic identification, and various imaging modalities.

Prerequisite: C- or above in the following courses AHS 153 or AHS 140 or BIOL 2210 or BIOL 1130, or consent of instructor.

Learning Outcomes

1. Students will be able to position patients and identify radiographic anatomy and pathological conditions appropriately.
2. Students will demonstrate the ability to use independent judgment.
3. Students will analyze radiographic images for technical and positioning accuracy to make modifications as needed.

RADT 156. Independent Study
1-6 Credits (1-6)
Individual studies/research on topics related to the radiological sciences. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

RADT 190. CT Equipment and Methodology
3 Credits (3)
Skill development in the operation of computed tomographic equipment, focusing on routine protocols, image quality, and quality assurance and radiation protection. Restricted to CTOM (Certificate) and/or RADT Majors. Restricted to Community College Campuses only.
Learning Outcomes
1. Demonstrate acquisition of comprehensive technical knowledge by obtaining a seventy-five percent or greater on all quizzes and exam assessments (this is in alignment with the scoring expectations for the national registry exam).
2. Manipulate and choose the appropriate scan parameters and technical factors on CT equipment while applying the technical science supporting the decision.
3. Demonstrate appropriate use of post-processing options and provide diagnostic quality images.
4. Abide by radiation safety and dosimetry standards for patient care by demonstrating ALARA standards.
5. Select CT scan manipulations for optimal demonstration of anatomic region, according to protocol (i.e. delayed imaging, multiplanar reconstructions, filters, etc.) and with safe use of iodinated contrast mediums.
6. Recognize and reduce factors that may inhibit diagnostic image quality.

RADT 191. Computed Tomography (CT) Imaging and Equipment
4 Credits (4)
This course serves as an introduction to computed tomography (CT) for current radiologic technology students. Course will include information on clinical equipment and application of x-rays in CT, CT image formation, evaluation, and archiving, patient radiation safety and dose, and patient interactions and management for imaging. Restricted to CTOM (Certificate) and/or RADT Majors. Restricted to Dona Ana Campus only.
Learning Outcomes
1. Demonstrate acquisition of comprehensive technical knowledge by obtaining a seventy-five percent or greater on all quizzes and exam assessments (this is in alignment with the scoring expectations for the national registry exam).
2. Identify critical components of CT system equipment and what their purposes are in creating a CT image.
3. Identify CT parameters which allow for safely administering radiation dose; particularly to pediatric patients.
4. List and define the steps required to acquire a CT image, including the theory behind x-ray interaction/absorption/ attenuation, detector capabilities, appropriate reconstruction options, and computer equipment.
5. Identify image display functions and radiology informatic options.
6. Identify the major technical components of image display in CT and common artifacts, including how to reduce artifacts.

RADT 200. Radiation Biology and Protection
2 Credits (2)
Biological effects of ionizing radiation on cells and tissues. Includes radiation measurements, policies and protection measures for self, patients, and others.
Prerequisite: C- or above in RADT 103.
Learning Outcomes
1. Students will demonstrate the ability to produce diagnostic radiographic images safely.
2. Students will demonstrate the ability to use independent judgment.
3. Students will analyze radiographic images for technical and positioning accuracy to make modifications as needed.

RADT 201. Clinical Practicum I
4 Credits (32P)
Supervised practice in a radiology department under direct supervision of a registered technician. Includes film critiques.
Prerequisite: RADT 105.
Learning Outcomes
1. Students will demonstrate the ability to produce diagnostic radiographic images safely.
2. Students will be able to position patients and identify radiographic anatomy and pathological conditions appropriately.
3. Students will demonstrate effective communication skills.
4. Students will accurately document/record data in accordance with clinical site policies and procedures.
5. Students will demonstrate the ability to use independent judgement.
6. Students will analyze radiographic images for technical and positioning accuracy to make modifications as needed.
7. Students will conduct themselves professionally to function effectively as healthcare team members.
8. Students will identify various opportunities for professional growth within medical imaging sciences.

RADT 202. Clinical Practicum II
6 Credits (32P)
Continuation of RADT 201. Student will work under indirect supervision of registered personnel. Restricted to RADT majors. Restricted to Dona Ana Campus only.
Prerequisite: RADT 201.
Learning Outcomes
1. Students will demonstrate the ability to safely produce diagnostic radiographic images.
2. Students will be able to position patients and identify radiographic anatomy and pathological conditions appropriately.
3. Students will demonstrate effective communication skills.
4. Students will accurately document/record data in accordance with clinical site policies and procedures.
5. Students will demonstrate the ability to use independent judgement.
6. Students will analyze radiographic images for technical and positioning accuracy to make modifications as needed.
7. Students will conduct themselves in a professional manner to function effectively as a member of the healthcare team.
8. Students will identify various opportunities for professional growth within medical imaging sciences.

RADT 203. Clinical Practicum III
3 Credits (3P)
Continuation of RADT 202:Student will work under indirect supervision of registered personnel.
Prerequisite: C- or above in RADT 202.
Learning Outcomes
1. Students will demonstrate the ability to safely produce diagnostic radiographic images.

2. Students will be able to position patients and identify radiographic anatomy and pathological conditions appropriately.
3. Students will demonstrate effective communication skills.
4. Students will accurately document/record data in accordance with clinical site policies and procedures.
5. Students will demonstrate the ability to use independent judgement.
6. Students will analyze radiographic images for technical and positioning accuracy to make modifications as needed.
7. Students will conduct themselves in a professional manner to function effectively as a member of the healthcare team.
8. Students will identify various opportunities for professional growth within medical imaging sciences.

RADT 204. Special Modalities Practicum IV
3 Credits (32P)
Continuation of 203 to include special rotations in advanced imaging modalities.
Corequisite: C- or above in RADT 104.
Learning Outcomes
1. Students will demonstrate the ability to produce diagnostic radiographic images safely.
2. Students will be able to position patients and identify radiographic anatomy and pathological conditions appropriately.
3. Students will demonstrate effective communication skills.
4. Students will accurately document/record data in accordance with clinical site policies and procedures.
5. Students will demonstrate the ability to use independent judgement.
6. Students will analyze radiographic images for technical and positioning accuracy to make modifications as needed.
7. Students will conduct themselves in a professional manner to function effectively as a member of the healthcare team.
8. Students will identify various opportunities for professional growth within medical imaging sciences.
9. Students will analyze radiographic images for technical and positioning accuracy to make modifications as needed. 1
10. Students will conduct themselves in a professional manner to function effectively as a member of the healthcare team.

RADT 205. Radiographic Image Critique
2 Credits (2)
Review of radiographs produced in clinical settings to evaluate anatomy and technical issues. Restricted to RADT majors. Restricted to Community College Campuses only.
Prerequisite: RADT 201.
Learning Outcomes
1. Students will demonstrate the ability to safely produce diagnostic radiographic images.
2. Students will be able to appropriately position patients, identify radiographic anatomy and pathological conditions.
3. Students will demonstrate effective communication skills.
4. Students will accurately document/record data in accordance with clinical site policies and procedures.
5. Students will demonstrate the ability to use independent judgement.
6. Students will analyze radiographic images for technical and positioning accuracy to make modifications as needed.
7. Students will conduct themselves in a professional manner to function effectively as a member of the healthcare team.

RADT 206. Applied Radiographic Procedures
3 Credits (3)
Capstone course : Advanced course which integrates the principles and techniques of radiologic technology. Restricted to RADT Majors.
Prerequisite: RADT 202.
Learning Outcomes
1. Students will demonstrate the ability to produce diagnostic radiographic images safely.
2. Students will be able to position patients and identify radiographic anatomy and pathological conditions appropriately.
3. Students will demonstrate effective communication skills.
4. Students will accurately document/record data in accordance with clinical site policies and procedures.
5. Students will demonstrate the ability to use independent judgement.
6. Students will analyze radiographic images for technical and positioning accuracy to make modifications as needed.
7. Students will conduct themselves in a professional manner to function effectively as a member of the healthcare team.

RADT 207. Cross Sectional Anatomy for Medical Imaging
3 Credits (3)
Anatomic relationships that are present under various sectional orientations as depicted by computed tomography or magnetic resonance imaging. Restricted to CTOM (Certificate) and/or RADT Majors. Restricted to Community College Campuses only.
Learning Outcomes
1. Recognize course format and expectations by achieving at least a ninety-percent each on the Syllabus Quiz, Netiquette and Introductory Discussions.
2. Identify and label the anatomy associated with the topical outline in diagnostic CT images.
3. Critique CT images for the presence or absence of anatomy and pathology in deciding whether the image is appropriately positioned and diagnostic for radiologist assessment.
4. Locate anatomical systems and possible pathology based on background knowledge of typical anatomical locations and identify normal course of system function for appropriate positioning, patient instructions, and CT imaging.
5. Apply knowledge in testing environment mimicking that which is expected for the ARRT Registry.

RADT 208. Practicum I (Computed Tomography)
2 Credits (8P)
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinic professional. Restricted to Restricted to CTOM (Certificate) and/or RADT Majors. Restricted to Community College Campuses only.
Learning Outcomes
1. Navigate this Canvas course and demonstrate understanding of clinic and course expectations by attending live Orientation and completing the Syllabus Quiz with at least a ninety percent. (CO-one)
2. Communicate effectively with patients to successfully perform CT procedures. (CO-two): Examples of communication include: gathering patient history and any known allergies, screening for pre-existing conditions such as diabetes, gaining an understanding the location of the patient's pain (if applicable) and what may be the cause of it (i.e. trauma, strain, family history, etc.), and ensuring the patient's exam is warranted and is not a duplicate).

3. Properly prepare patients for the type of exam they are scheduled for. (CO-three)
4. Demonstrate competence in intravenous procedures. (CO-four). Competence includes: checking blood for kidney function and understanding normal vs. out-of-range lab values, safely and cleanly starting an IV, choosing the correct type and amount of contrast media, choosing the correct method of injection (either by hand or at a controlled pace via a bolus injector), monitoring the patient during and after the IV injection, and responding to any reactions.
5. Recognize iodinated contrast composition, risks, and proper use (including bolus timing) according to type of CT procedure. (CO-five)
6. Follow radiation safety and dosimetry standards for patient care. (CO-six)
7. Select appropriate CT protocols for respective patient exams. (CO-seven)
8. Exhibit competence in CT physics and instrumentation through safe CT scanner operation. (CO-eight)
9. Perform complete, diagnostic quality CT imaging procedures. (CO-nine)

RADT 209. Practicum II (Computed Tomography)
2 Credits (8P)
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinic professional. (Capstone Course). Restricted to Restricted to CTOM (Certificate) and/or RADT Majors. Restricted to Community College Campuses only.

Learning Outcomes

1. To qualify as a complete, diagnostic quality CT imaging procedure the candidate must demonstrate appropriate: Evaluation of requisition and/or medical record; Preparation of examination room; Identification of patient; Patient assessment and education concerning the procedure; Documentation of patient history including allergies; Patient position; Protocol selection; Parameter selection; Image display, filming and archiving; Documentation of procedure, treatment and patient data in appropriate record; Patient discharge with post-procedure instructions; Standard precautions /radiation protection; Preparation and/or administration of contrast media; Initiate scan and evaluate the resulting images for: Image quality (e.g., motion, artifacts, noise); Optimal demonstration of anatomic region (e.g, delayed imaging, reconstruction spacing, algorithm, slice thickness); Exam completeness

RADT 210. Practicum III (Computed Tomography)
2 Credits (8P)
Continuation of RADT 209: Advanced health-related work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinic professional. Upon completion, students will be able to assume most of the duties of an experienced imaging professional in Computed Tomography.
Prerequisite: RADT 209.

Learning Outcomes

1. To qualify as a complete, diagnostic quality CT imaging procedure the candidate must demonstrate appropriate: Evaluation of requisition and/or medical record; Preparation of examination room; Identification of patient; Patient assessment and education concerning the procedure; Documentation of patient history including allergies; Patient position; Protocol selection; Parameter selection; Image display, filming and archiving; Documentation of procedure, treatment and patient data in appropriate record; Patient discharge with post-procedure instructions; Standard precautions /radiation protection; Preparation and/or administration of contrast media; Initiate scan and evaluate the resulting images for: Image quality (e.g., motion, artifacts, noise); Optimal demonstration of anatomic region (e.g, delayed imaging, reconstruction spacing, algorithm, slice thickness); Exam completeness

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