RADT A171: CLINICAL LAB 1

Item	Value
Curriculum Committee Approval Date	03/12/2025
Top Code	122500 - Radiologic Technology
Units	2 Total Units
Hours	108 Total Hours (Lab Hours 108)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	No
Basic Skills	Not Basic Skills (N)
Repeatable	No
Open Entry/Open Exit	No
Grading Policy	Standard Letter (S)

Course Description

This course consists of clinical lab experience and the application of radiologic technology skills. The course is a competency-based curriculum emphasizing radiologic technology skills in the thoracic and abdominal regions of the body. PREREQUISITE: Acceptance into the OCC Radiologic Technology Program (Cohort restriction) and ALH A115 or concurrent enrollment. COREQUISITE: RADT A105. Transfer Credit: CSU.

Course Level Student Learning Outcome(s)

1. Apply positioning skills learned to performing routine chest and abdominal exams in the clinical setting.
2. Demonstrate appropriate patient care skills, adherence to radiation protection practices, and exhibit professional behaviors.

Course Objectives

- I ** 1. Apply knowledge of professional ethics pertinent to the interactions with patients, staff and other health care professionals.
- II * 2. Adhere to Radiology Department operational policies and clinical education policies as stated in the student clinical handbook.
- III * 3. Perform duties within the ancillary support service areas such as image processing, patient transportation.
- IV ** 4. Respond to specific departmental emergency codes.
- V ** 5. Demonstrate ability to function within the Radiology environment at initial clinical level.
- VI * 6. Manipulate technical factors to produce diagnostic radiographs of quality.
- VII ** 7. Evaluate and analyze quality of radiographic images, specific chest and abdomen.
- VIII * 8. Position patient properly for chest and abdomen x-rays.
- IX * 9. Complete all clinical paperwork and documentation
- X SCAN SKILLS IDENTIFICATION
- XI * Competencies
- XII ** Foundation skills

Lecture Content

Course has Lab content only

Lab Content

Orientation to the Radiology Department environment Review department s operational structure. Format of the department s structure, including key personnel. Student training policies and procedures. Radiographic procedure manual. Student rotation assignment. Orientation to radiographic rooms Check-off list for equipment operation. Required patient safety equipment oxygen, suction, and crash cart. Student responsibilities in maintaining radiographic rooms. Department's work flow and patient flow. Patient transportation. Room assignments vs. radiographic procedures, i.e., fluoroscopy, chest, general diagnostic. Radiographic paperwork responsibilities. Introduction to department's support services. Image processing Transportation Assignment to clinical training as specified per rotation schedule - locations to include: General diagnostic Fluoroscopy Support services (i.e. Transportation) Review objectives for clinical rotation assignments. Continue with clinical training as specified per rotation schedule, locations as identified Students are to observe the performance of radiographic procedures according to departmental policies. Diagnostic Fluoroscopy Portables Assignment to support services to include: Transportation Image Processing Demonstrate basic patient care skills Patient transport techniques Effective patient communication Adherence to patient confidentiality, comfort and modesty. Response to departmental emergency codes , i.e., fire earthquake, triage Respond to patient in an emergency distress situation, i.e., code blue, contrast reaction Continue with clinical training Students will under direct supervision perform the following exams to include positioning and setting exposure factors on equipment control panel. Chest Abdomen Begin evaluation sheets required for competency check-off. Assist with the following procedures: Fluoroscopy Other Diagnostic Exams Demonstrate proper use of appropriate contrast media for specific exams. Complete rotation through support services as identified. Required goals and objectives must be signed off at the completion of each rotation. Complete RT 171 clinical objectives Observe with final evaluation of student's ability to perform: Routine chest Routine abdomen Sign-off practicum competency-direct supervision category Student must have successfully completed a minimum of 4 performance evaluations. Determine final clinical course grade by completing RT 171 clinical objectives - evaluate student's ability in all areas identified. Review completed RT 171 objectives with student-identify student's strengths and areas for improvement. Determine goals for next clinical course.

Method(s) of Instruction

- Lab (04)
- Directed Clinical (DIR)

Instructional Techniques

Demonstration; Seminar-style lab, clinical practice under direct supervision; image analysis; return skill demonstration.

Writing Assignments

1 hour per week to complete: 1. Clinical logs - daily, weekly, monthly2. Repeat analysis log3. RT 171 Clinical Objectives4. Skills demonstration - chest, abdomen5. Self evaluation6. Evaluation of clinical assignment/site

Out-of-class Assignments

1 hour per week to complete: 1. Clinical logs - daily, weekly, monthly2. Repeat analysis log3. RT 171 Clinical Objectives4. Skills demonstration - chest, abdomen5. Self evaluation6. Evaluation of clinical assignment/site

Demonstration of Critical Thinking

Performance evaluation sheet Clinical practicum proficiency - 2 exams required to be signed off in direct supervision Routine chest Routine abdomen Completion of clinical training documentation utilizing forms from student clinical handbook RADT A171 Clinical Objectives Clinical participation Completion of required clinical hours

Required Writing, Problem Solving, Skills Demonstration

Performance evaluation sheet Clinical practicum proficiency - 2 exams required to be signed off in direct supervision Routine chest Routine abdomen Completion of clinical training documentation utilizing forms from student clinical handbook RADT A171 Clinical Objectives Clinical participation Completion of required clinical hours

Eligible Disciplines

Radiological technology: Any bachelor's degree and two years of professional experience, or any associate degree and six years of professional experience.

Textbooks Resources

1. Required Alder, Arlene.. Introduction to Radiology and Patient Care, 8th ed. Missouri: Elsevier, 2022 Rationale: - 2. Required Lampignano, J. P., Kendrick, L. E. . Bontrager's Textbook of Radiographic Positioning and Related Anatomy, 10th ed. Missouri: Elsevier/Mosby, 2020 3. Required Holt, K. , Sachs, L.,. Student Clinical Handbook , ed. Orange Coast College Bookstore, 2022 Rationale: -

Other Resources

1. Radiology Department?s Procedure Manual