

# RADT A212: ADVANCED CLINICAL LAB COMPUTED TOMOGRAPHY (CT)

Item	Value
Curriculum Committee Approval Date	10/20/2021
Top Code	122500 - Radiologic Technology
Units	4.5 Total Units
Hours	243 Total Hours (Lab Hours 243)
Total Outside of Class Hours	0
Course Credit Status	Credit: Degree Applicable (D)
Material Fee	No
Basic Skills	Not Basic Skills (N)
Repeatable	No
Grading Policy	Pass/No Pass (B)

## Course Description

Clinical experience in an affiliated radiology department under the supervision of certified radiology and healthcare personnel. Emphasis on independent radiography and decision making. Professional growth and program exit skills are expected. Sixteen hours of clinical per week. RADT A222 allows for students to be assessed prior to beginning clinical training. PREREQUISITE: RADT A222; and a minimum of 3 months in an acute care hospital. Transfer Credit: CSU.

## Course Level Student Learning Outcome(s)

1. Perform CT examinations as enumerated in the ARRT CT Clinical Competencies guide to achieve clinical competency and develop the critical thinking skills necessary to function as an entry-level CT Radiologic Technologist.

## Course Objectives

- 1. Exercise appropriate critical thinking and interpersonal skills in an environment that includes varying and unpredictable circumstances.\*\*
- 2. Demonstrate competency under indirect supervision to perform routine computed tomography procedures as indicated in current ARRT clinical specifications.
- 3. Completion of all competencies and program clinical documentation, to include clinical hours required.\*
- 4. Demonstrate the anatomy, physiology, and pathology of the proscribed ARRT required imaging procedures.

## Lecture Content

This is a clinical lab course, therefore there is no lecture content. Prior to beginning clinical training students will need to complete Rad T 222 and complete the required on-boarding activities outlined in Rad T 222.

## Lab Content

Clinical training Continue to perform under general supervision. All computed tomography (CT) procedures as outlined in ARRT content specifications. Clinical training Continue independent performance of departmental Quality Control procedures. Assess students ability

to analyze images and make modifications with 95% accuracy. C. Complete all required ARRT CT Competencies. Clinical final assessment Completion of evaluation sheets for competency check-off procedures. Complete sign-off process on proficiency practicum form, minimum requirement 125 exams. Verify completion of all clinical course documentation: clinical hours terminal competencies. Verify ability to perform analysis with 95% accuracy. If all final clinical competencies as outlined are not completed then clinical education will be extended.

## Method(s) of Instruction

- Lab (04)

## Instructional Techniques

1. Demonstration
2. Clinical practice under direct and general supervision.
3. Film analysis and critique by the clinical supervisor and staff.
4. Return skill demonstration.

## Reading Assignments

1. Clinical logs-daily, weekly, monthly
2. Evaluation of clinical assignment/site
3. Skills demonstration of required exams to include ARRT CT Competencies
4. Self evaluation.

## Writing Assignments

1. Clinical logs-daily, weekly, monthly
2. Evaluation of clinical assignment/site
3. Skills demonstration of required exams to include ARRT CT Competencies
4. Self evaluation.

## Out-of-class Assignments

1. Clinical logs-daily, weekly, monthly
2. Evaluation of clinical assignment/site
3. Skills demonstration of required exams to include ARRT CT Competencies
4. Self evaluation.

## Demonstration of Critical Thinking

1. Performance evaluation sheet
2. Clinical practicum proficiency exams identified in course outline
3. Completion of clinical training documentation utilizing forms from student clinical manual
4. Attendance and appearance
5. Clinical participation
6. Completion of required clinical hours.

## Required Writing, Problem Solving, Skills Demonstration

1. Clinical logs-daily, weekly, monthly
2. Evaluation of clinical assignment/site
3. Skills demonstration of required exams to include ARRT Terminal Competencies
4. Self evaluation.

## Eligible Disciplines

Radiological technology: Any bachelors 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, ed. Elsevier/Mosby , 2016
2. Required Frank, Eugene.. Merrills Atlas of Radiographic Position and Procedures., 14 ed. Elsevier/Mosby,, 2020

## Other Resources

1. Radiology Departments Procedure Manual.