

Cañada College
Official Course Outline

1. **COURSE ID:** RADT 468 **TITLE:** Clinical Education VI
Units: 4.5 units **Hours/Semester:** 232.0-243.0 Field Experience hours; 232.0-243.0 Total Student Learning hours
Method of Grading: Letter Grade Only
Prerequisite: RADT 458

2. **COURSE DESIGNATION:**
Degree Credit
Transfer credit: CSU

3. **COURSE DESCRIPTIONS:**
Catalog Description:
This final phase of clinical education allows the student to perform radiographic procedures on patients in affiliated hospitals with minimal or indirect assistance in preparation for entry into employment. The final four weeks of training are dedicated to a specialized area of radiography and require full-time attendance in the clinical setting.

4. **STUDENT LEARNING OUTCOME(S) (SLO'S):**
Upon successful completion of this course, a student will meet the following outcomes:
 1. Practice radiation safety standards at all times.
 2. Maintain a safe and comfortable environment for patients while performing radiographic examination.
 3. Prove the ability to perform radiographic examinations with a multitude of specialized equipment.
 4. Demonstrate competency in entry-level radiologic technology skills required by the State of California Department of Radiologic Health Bureau and the American Registry of Radiologic Technology.

5. **SPECIFIC INSTRUCTIONAL OBJECTIVES:**
Upon successful completion of this course, a student will be able to:
 1. Demonstrate competency in the performance of a variety of radiographic examinations of the following human systems: Respiratory system; Skeletal system; Genito-urinary system; Gastro-intestinal system, Central nervous system, and Cardiovascular system.
 2. Demonstrate competency in a variety of radiographic procedures in the operating room with minimal assistance.

3. Demonstrate competency in the performance of a variety of radiographic procedures utilizing various mobile radiography units.
4. Recognize and respond appropriately to emergency situations should they arise.
5. Recognize and apply the appropriate technical factors to achieve optimum image quality.
6. Evaluate radiographic images for appropriate positioning and image quality.
7. Employ appropriate measures to ensure patient safety and comfort when performing radiographic examinations.
8. Demonstrates ability to select accurate radiographic exposure factors under the oversight of a supervising technologist
9. Apply patient privacy laws in all aspects of radiographic procedures.
10. Identify required variations in technical factors when changing SID (source to image distance), or grids.
11. Demonstrate the personal and professional qualities generally expected of certified Radiologic Technologists.

6. COURSE CONTENT:

Lab Content:

This course provides students with real-life experience in a clinical setting. Each clinical setting is different and students are exposed to a variety of radiologic exams depending on the clinic. The number of hours for the clinical experience, and thus units, correspond with the time needed for students to gain knowledge and skills in the clinical setting as they work towards being job ready.

1. Perform various radiographic examinations at individual affiliate clinical sites.
2. Radiographic examinations will be performed in a manner that provides for patient safety and comfort, and will utilize appropriate technical factors, with attention to radiographic quality, and professional conduct.
3. Perform routine radiographic procedures including exams including but not limited to: extremities, chest, and abdomen.
4. Perform contrast enhanced radiographic procedures, for example examinations of the gastro-intestinal, genitourinary, and central nervous system.
5. Perform surgical and bedside examinations using various mobile radiographic equipment.
6. Perform specialized radiographic procedures requiring the use of aseptic or sterile techniques or specialized equipment.

7. Perform entry-level radiologic technology skills.

7. REPRESENTATIVE METHODS OF INSTRUCTION:

Typical methods of instruction may include:

1. Field Experience

8. REPRESENTATIVE ASSIGNMENTS

Representative assignments in this course may include, but are not limited to the following:

Writing Assignments:

1. One Advanced imaging modality case study and oral presentation 8 to 12 pages.
2. Preparation of one written image analysis (4-6 pages in length) on pre-determined radiological examination for oral case presentation. The exam must have been performed by the student, and include positioning, anatomy, technical factors, radiation dose and areas for improvement.

Reading Assignments:

3. Review 3 to 4 articles and 1 chapter in textbook per week, on a specialized imaging modality, 8-20 pages.

Other Outside Assignments:

- o None.

To be Arranged Assignments:

- o Not applicable.

9. REPRESENTATIVE METHODS OF EVALUATION

Representative methods of evaluation may include:

0. Class Performance
1. Lab Activities
2. Oral Presentation
3. Papers
4. Research Projects
5. Simulation
6. a) Successful completion of all remaining second clinical competencies.
b) Present advanced imaging case study and 1 image analysis with a passing score. c) Participation in coaching session(s) site with clinical coordinator. d) Minimum 1 personal and professional growth assessments completed by the clinical instructor. e) Minimum 1 clinical observations completed by the clinical coordinator. f) Clinical evaluation completed by the clinical coordinator. g) Completion of all hours and

documents in clinical education manual. h) Complete and apply technical factors chart.

10. REPRESENTATIVE TEXT(S):

Possible textbooks include:

1. McQuillen Martensen, Kathleen. *RADIOGRAPHIC IMAGE ANALYSIS*, 6th ed. St. Louis, Missouri: Mosby Elsevier, 2024
2. Frank, Eugene D., Bruce W. Long, and Barbara J. Smith. *MERRILL'S ATLAS OF RADIOGRAPHIC POSITIONS AND RADIOLOGIC PROCEDURES Vols. 1, 2 & 3*, 16th ed. St. Louis, Missouri: Mosby Elsevier, 2025
3. Adler, Arlene M., and Richard R. Carlton. *INTRODUCTION TO RADIOLOGIC SCIENCES AND PATIENT CARE*, 8th ed. St. Louis, Missouri: Saunders Elsevier, 2023

Other:

1. Anatomy and physiology textbooks
2. Medical Terminology book
3. Required texts for RADT 400, 408, 410, 420, 415 and 430
4. Clinical Education Manual

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Course Originator: Lezlee Inman