

Cañada College
Official Course Outline

1. **COURSE ID:** RADT 418 **TITLE:** Clinical Education I
Semester Units/Hours: 4.0 units; a minimum of 256.0 lab hours/semester
Method of Grading: Letter Grade Only
Prerequisite: Acceptance into the Radiologic Technology Program. **Corequisite:** Concurrent enrollment in RADT 410.

2. **COURSE DESIGNATION:**

Degree Credit
Transfer credit: CSU

3. **COURSE DESCRIPTIONS:**

Catalog Description:

Designed for the beginning radiologic technology student assigned to a clinical education facility. It consists of orientation to clerical, image processing, patient transportation, supplies and equipment, and radiographic equipment operation. Students observe, assist and perform radiographic examinations appropriate to the student's level of education following accepted radiation protection standards.

Schedule of Classes Description

This course is the beginning of clinical education for radiologic technology students. Students observe, assist and perform radiographic examinations appropriate to the student's level of education.

4. **STUDENT LEARNING OUTCOME(S) (SLO'S):**

Upon successful completion of this course, a student will meet the following outcomes:

5. **SPECIFIC INSTRUCTIONAL OBJECTIVES:**

Upon successful completion of this course, a student will be able to:

- A. Explain clerical procedures required for clinical orders, image processing and storage.
- B. Describe patient preparations for various examinations.
- C. Demonstrate understanding of emergency procedures appropriate to the assigned facility.
- D. Operate radiographic, fluoroscopy and image processing equipment.
- E. Locate emergency trays and carts.
- F. Move, transport and transfer patients safely.
- G. Apply professional standards to all patient related activities.
- H. Use accessory equipment as appropriate to assist and perform radiographic examinations.
 - I. Demonstrate proper use of radiation hygiene
 - J. Demonstrate the ability to perform entry level radiographic procedures.
- K. Complete five designated clinical competencies.
- L. Apply patient privacy laws in all aspects of radiographic procedures.

6. **COURSE CONTENT:**

Lecture Content:

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Lab Content:

1. Observe radiographic examinations observing correct positioning, image receptor placement, and central beam alignment.
2. Perform with assistance radiographic examinations observing correct positioning, image receptor placement, and central beam alignment.
3. Perform radiographic examinations demonstrating correct positioning, image receptor placement, and central beam alignment.
4. Describe and demonstrate radiation safety for patient and personnel.
5. Relate appropriate projections to demonstrate specific anatomy.
6. Identify required radiographic anatomy on images.
7. Demonstrate safe operation of radiographic equipment while performing various radiographic examinations.
8. Describe medical conditions that effect performance of various radiographic examinations.

TBA Hours Content:

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7. **REPRESENTATIVE METHODS OF INSTRUCTION:**

Typical methods of instruction may include:

8. **REPRESENTATIVE ASSIGNMENTS**

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

Writing Assignments:

- A. Complete 5 Image analysis assignments
- B. Compare textbook procedures to practical application in assigned clinical education setting.

Reading Assignments:

- A. Review procedures performed each day in assigned positioning textbook
- B. Review department policy and procedure manuals

Other Outside Assignments:

None.

To be Arranged Assignments (if applicable):

Not applicable.

9. **REPRESENTATIVE METHODS OF EVALUATION**

Representative methods of evaluation may include:

- A. a) Successful completion of 5 specific clinical competencies. b) Student is required to prepare five multi-page written image analyses on pre-determined radiological examinations. These exams may have been retrieved from image library, observed or performed and include positioning, anatomy, technical factors, radiation dose and areas for improvement c) Minimum 2 personal and professional growth assessments completed by the clinical instructor. d) Clinical observation completed by the clinical coordinator. e) Clinical evaluation completed by the clinical coordinator. f) Completion of all documents in clinical education manual.

10. **REPRESENTATIVE TEXT(S):**

Possible textbooks include:

- A. Frank, Eugene D., Bruce W. Long, and Barbara J. Smith. *MERRILL'S ATLAS OF RADIOGRAPHIC POSITIONS AND RADIOLOGIC PROCEDURES Vols. 1, 2 & 3*, 11th ed. St. Louis, Missouri: Mosby Elsevier, 2007
- B. McQuillen Martensen, Kathleen . *RADIOGRAPHIC IMAGE ANALYSIS*, 2nd ed. St. Louis, Missouri: Mosby Elsevier, 2006
- C. Adler, Arlene M., and Richard R. Carlton. *INTRODUCTION TO RADIOLOGIC SCIENCES AND PATIENT CARE*, 4th ed. St. Louis, Missouri: Saunders Elsevier, 2007

Other:

- A. Anatomy and physiology textbooks
- B. Medical Terminology book
- C. Required text for RADT 400, 408 and 410
- D. Clinical Education Manual

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Course Originator: Pamela Jones