



ANTELOPEVALLEY COLLEGE

**Academic Affairs
Course Outline of Record**

Academic Affairs Only

- X New Course 5/24/2007
- COR Revision
- COR Update
- X Pre Req/Advisories 5/24/07
- Other Changes
- X Effective Date 200870
- X SLO 7/30/2008

COURSE SUBJECT & NUMBER: RADT 106

COURSE NAME: Radiographic Clinical Practicum IA

COURSE UNITS: 2 **COURSE HOURS:** 112 hours clinical total

COURSE REQUISITES: *(Follow format of similar courses found in the college catalog.)*

Limitation on Enrollment: Formal admission to the Radiologic Technology program

Prerequisites: Completion of RADT 103, RADT 103CL, and RADT 104 with a grade of "C" or better; Eligibility for MATH 102

COURSE DESCRIPTION: *(Write a short paragraph providing an overview of topics covered. Be sure to identify target audience--transfer, major, GE, degree/certificate, etc. If repeatable, state the number of times at end of description.)*

This course provides supervised practice in clinical settings to improve skills in basic radiographic procedures. (CSU, AVC)

COURSE OBJECTIVES: *(Use Bloom's taxonomy to formulate concise, performance-based measurable objectives common to all students. Objectives must be closely aligned with course content, assignments, and methods of evaluation.)*

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

1. Evaluate one's ability to perform entry-level routine exams required in the radiology department.
2. Demonstrate clinical competency in positioning and procedure skills.
3. Critique radiographs with the guidance of the assigned radiographic technologist.
4. Demonstrate competency in radiation protection methods according to the California Radiation Health section of Title 17.
5. Evaluate one's own activities in the radiology department.

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COURSE CONTENT: *(Enter course content in terms of specific topics or a specific body of knowledge that each instructor must cover. Put topics in outline form with major and minor headings. Title 5 requires that each instructor must cover all material listed below.)*

- I. Supervised clinical practice performing radiographic examinations of:
 - A. Chest and bony thorax
 - i. Routine PA and Lat
 - ii. Lordotic
 - iii. Decubitus
 - iv. Spine
 - B. Abdomen
 - i. Kidneys-Ureters-Bladder
 - C. Upper extremity
 - i. Finger
 - ii. Hand
 - iii. Wrist
 - iv. Forearm
 - v. Elbow
 - vi. Humerus
 - vii. Shoulder
 - viii. A-C articulations
 - ix. Clavicle
 - x. Scapula
 - D. Lower extremity
 - i. Toes
 - ii. Foot
 - iii. Os calcis
 - iv. Ankle
 - v. Lower leg
 - vi. Knee
 - vii. Femur
 - viii. Hips
 - ix. Pelvis
- II. Pediatric clinical applications
 - A. Chest
 - B. Abdomen
 - C. Upper extremity
 - D. Lower extremity
- III. Portable clinical applications
 - A. Chest
 - B. Abdomen
 - C. Upper extremity
 - D. Lower extremity
- IV. Film critiques
 - A. Evaluation of radiographic positioning
 - B. Evaluation of radiographic technique

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TYPICAL HOMEWORK ASSIGNMENTS: READING, WRITING, COMPUTATIONAL, OTHER

This information is necessary for all credit courses. Assignments should be closely related to course objectives, content, and methods of evaluation. (See sample of a "Model Outline" in the AP&P Standards & Practices handbook.) Include a range of assignments (minimum of three) from which faculty may choose when designing their syllabus.

1. Describe nature and frequency of typical reading assignments if applicable; note if any are required:

Twenty to thirty pages of required reading from assigned text weekly.

2. Describe nature and frequency of typical writing assignments if applicable; note if any are required:

One written paper describing professional growth and task assessments, 2-3 pages (required)

3. Describe nature and frequency of typical computational assignments if applicable; note if any are required:

Daily clinical problems in dosage calculation and time/distance/shielding (required)

4. Describe other types of homework assignments that students may be asked to complete; note if any are required:

Clinical education objectives worksheets weekly (required)

5. Describe those critical thinking skills that are derived from assignments listed above; be sure that they reflect course objectives.

Analysis of professional growth during the course

Analysis of situations that are beyond the student's capability at this point in the program

Critique of radiographic films for positioning and technique

6. For categories 1-4, describe the estimated time per week it would take a student to complete homework assignments.

Title 5 uses the Carnegie formula for establishing units using a 2:1 ratio as follows: 1 hr. lecture = 2 hrs .homework; 2 hrs. lecture = 4 hrs .homework; etc. For example: reading textbook—2 hours; writing reports—3 hours.

Reading: 2 hours per week reading text

Writing: 1 hour per week writing professional growth and task assessment papers and clinical education sheets

Computational: 1 hour per week completing math problems

Other: 1 hour per week completing clinical objectives worksheets

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METHODS OF INSTRUCTION: *(Methods must be consistent with content and appropriate to objectives; state in terms of what instructor will be doing in order to present course content to students: for example, lecture, demonstration, facilitate group work, etc. Do not list specific instructional equipment.)*

Demonstration, supervised clinical practice

METHODS OF EVALUATION: *(These must be clearly related to course content, assignments, and objectives in order to comply with Title 5 requirements. Describe what instructor will be looking for when evaluating various assignments and tests in order to determine whether students have met course objectives. Grades must be based on demonstrated proficiency in subject matter and determined, where appropriate, by essays, objective and essay tests, research papers or projects, problem solving exercises, or skills' demonstrations.)*

Evaluation of clinical performance to assess achievement of objectives 1 through 5

Professional growth and task assessment paper to assess achievement of objectives 1-5

Completion of clinical education objectives worksheets to assess achievement of objectives 1-5

Critique of radiographic films to assess achievement of objective 3

Suggested Texts or other Instructional Materials *(list several when possible; include title, author, publisher, date, and latest edition.)*

Bontrager, Kenneth. 2002. Pocket Atlas: Handbook of Radiographic Positioning and Techniques. 4th ed. Bontrager Publishing Inc.

RADT 106 course packet (created by faculty and updated annually)