



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 102

COURSE NAME: Patient Care in Radiology

COURSE UNITS: 2 **COURSE HOURS:** 36 total

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

Limitation on Enrollment: Formal admission to the Radiologic Technology program

Prerequisites: BIOL 201, BIOL 202, and ENGL 101 with a grade of "C" or better

Corequisite: Concurrent enrollment in RADT 101

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 introduces basic concepts and skills that are essential for safe patient care in the field of radiography. (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. Demonstrate effective communication for interactions with patients and the health care team.
2. Choose appropriate safety practices for patient and technologist in the health care setting.
3. Compare and contrast infectious agents and means of infection control.
4. Discuss the importance of standard precautions, aseptic technique, and isolation procedures.
5. Demonstrate the use of patient care skills in the classroom setting.
6. Explain the rationale for specific types of tubes, lines, catheters, and collection devices in the radiology environment.
7. Describe the signs and symptoms and appropriate procedures for managing patients with various medical emergencies.
8. Recognize basic types and levels of contrast reactions and procedures for corrective action.

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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. Patient interactions and communication
 - A. Methods of effective communication
 - B. Maslow's Hierarchy of Needs
 - C. Interacting with patients
 - D. Understanding various types of patients
 - E. History taking
 - F. Health records management
 - G. Patient ethics

- II. Infection control, asepsis and isolation
 - A. Bloodborne pathogens standards
 - B. Infection control measures
 - C. Handwashing techniques
 - D. Skin preparations, dressings and catheter care
 - E. Sterile packages and sterile technique
 - F. Isolation principles and techniques
 - G. OSHA regulations

- III. Transfer and immobilization techniques
 - A. Body mechanics
 - B. Lifting and transfer techniques
 - C. Positioning
 - D. Immobilization techniques

- IV. Evaluating and meeting physical needs (15 hrs)
 - A. Measuring vital signs
 - B. Using and maintaining equipment
 - C. Administering oxygen therapy
 - D. Administering enemas
 - E. Maintaining chest tubes, urinary catheters, drains, and intravenous lines
 - F. Recognizing medical emergencies

- V. Pharmacology, contrast media and imaging
 - A. Introduction to pharmacology
 - B. Classification of drugs
 - C. Principles and methods of administration
 - D. Types of contrast media
 - E. Complications of contrast media administration
 - F. Patient preparations for radiographic examinations
 - G. Ethical issues in pharmacology

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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 pages of required reading from assigned text weekly.

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

Review of journal articles relevant to current health care practices, twice per course (required); ethical analysis paper of 3-5 pages.

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

None

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

Answer study questions at the end of each chapter (required)

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

Analysis of health care practices related in current medical literature

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: 2 hours per week writing reviews of journal articles and writing ethical analysis paper

Computational: none

Other: one hr per week answering study questions at the end of each chapter

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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.)*

Lecture, demonstration, discussion

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.)*

Multiple choice, short answer and essay questions to assess achievement of objectives 1-4 and 6-8
Performance exam to assess achievement of objective 5
Journal article review to assess achievement of objectives 2 and 3
Ethical issue analysis paper to assess achievement of objectives 1, 5 and 8

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

Adler, Arlene, and Carlton, Richard. 2007. Introduction to Radiography and Patient Care, 4th ed. W.B. Saunders.