## SPRINGFIELD TECHNICAL COMMUNITY COLLEGE

## **ACADEMIC AFFAIRS**

Course Number:	RADG 111	Department:	Radiography			
Course Title:	Radiographic Positioning 1	Semester:	Spring	Year:	1997	

## **Objectives/Competencies**

Course Objective	Competencies
1. Recall radiographic positioning terminology.	1. Student-patient relationship
	a. Assist patient
2. Identify anatomic structures and landmarks as related to	b. Explain procedure clearly to patient
radiography.	c. Insure patient privacy/modesty
2. December the anatomic positions used for radio arothic	2. Selection of film
3. Recognize the anatomic positions used for radiographic	2. Selection of film
positions.	a. Select correct film/screen speed
	b. Select correct grid type/ratio
4. Distinguish between the correct and incorrect radiographic examinations.	c. Select correct cassette size
	3. Equipment manipulation
5. Practice the radiographic position in the laboratory setting.	a. Manipulate equipment to correct position
	b. Utilize equipment locks correctly
6. Associate the placement or rotation of body parts with the	c. Identify film with appropriate markers
specified positions.	
	4. Technical factors
7. Demonstrate the proper radiographic positioning for	a. Demonstrate suitable exposure factors
specified examinations in the laboratory.	

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## Course Objective Competencies 5. Positioning skills a. Position patient correctly b. Position anatomical landmarks correctly c. Center anatomical area of interest to film female reproductive organs prior to taking radiograph. d. Align central ray to film

- 2. Place a protective shield over radiosensitive organs (other than gonads) in or near the primary beam prior to exposure, when repeated examination or high dosage levels are required for procedure.
- 3. Collimate beam to the area to be radiographed to limit radiation exposure to the area of interest.
- 4. Properly position patient, utilizing body landmarks, to achieve the best demonstration of the affected body part by adjusting table, radiographic equipment, and film cassette using knowledge of anatomy, and standard radiographic positions.
- 5. Use immobilization device, when indicated, to prevent movement by patient, and to insure proper patient positioning during film exposure.
- 6. Tape lead markers to margin of film cassette indicating time, body position (e.g., right left, RAO, LAO), etc.
- 7. Select film, screen and/or grid combination appropriate for the part to be radiographed.
- 8. Collimate beam to limit radiation exposure to the area of interest to improve image quality.
- 9. Give patient appropriate breathing instructions (i.e., insp. exp.) prior to making exposure.

- e. Angulate central ray correctly.f. Use immobilizing devices correctly
- g. Instruct patient properly
- 6. Radiation protection methods
  - a. Collimate beam properly
  - b. Shield patient properly
- 7. Film critique
  - a. Assess correctly patient position for diagnosis
  - b. Assess correctly technical factors for diagnosis
  - c. Recommend correct changes
  - d. Distinguish anatomical area of interest
  - e. Indicate evidence of radiation protection

Course Objective	Competencies
10. Evaluate the developed radiograph using view box to	
make certain that radiographs are of suitable quality for	
interpretation by physician.	
11. Place film cassettes into correct and centered position	
(erect, tabletop, or Bucky tray).	
12. Remove all radiopaque materials (i.e., jewelry, hairpins,	
contrast materials) from patient and/or table that could	
interfere with the quality of the film.	
13. Question patient about the presence and location of any	
pain he/she may be experiencing to determine if additional	
radiographic views are needed - as well as any	
modifications that might be useful - using a knowledge of the department protocol for a given procedure.	
14. Assist the patient onto or off of table or stool to avoid	
patient injury, using proper body mechanics and "lifters" to	
avoid personal injury.	
avoid personal injury.	