

LAST REVIEW: 2010-2011 **NEXT REVIEW:** 2015-2016 **STATUS:** A

COURSE TITLE: Clinical Education I

COMMON COURSE NUMBER: RTE 1804

CREDIT HOURS: 2

CONTACT HOUR BREAKDOWN

CLOCK HOURS:

Lecture:

Lab:

Clinic: 256

Other:

PREREQUISITE(S): Program admission

COREQUISITE(S):

PRE/COREQUISITE(S): RTE 1000, RTE 1111 RTE 1503, RTE 1503L

COURSE DESCRIPTION: Provides the student with clinical experience for practical application of concepts & skills taught in lecture & laboratory. Clinical rotations include an orientation to the hospital & imaging department, patient transportation & clerical functions, image processing, the main department, portables, the emergency room, & other ancillary imaging areas. Students will perform radiographic exams of the chest, abdomen, biliary tract & upper gastrointestinal system, lower gastrointestinal system, & urinary system.

UNIT TITLES

- | | |
|--|---|
| 1. Hospital & Departmental Orientation | 6. Imaging of the Abdomen |
| 2. Patient Transportation & Clerical Functions | 7. Imaging of the Biliary Tract & Upper Gastrointestinal System |
| 3. Radiographic Rooms & Imaging Equipment | 8. Imaging of the Lower Gastrointestinal System |
| 4. Image Processing | 9. Imaging of the Urinary System |
| 5. Imaging of the Chest | |

EVALUATION: Assessment includes competency evaluations, clinical instructor evaluations, & technologist evaluations.

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UNITS

Unit 1 Hospital & Departmental Orientation

General Outcome:

1.0 The student shall be able to successfully complete orientations to the hospital & imaging department.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 1.1** Navigate through the hospital & imaging department.
- 1.2** Differentiate between the various departments within the hospital.
- 1.3** Identify & define the roles of personnel in the hospital & imaging department.
- 1.4** Locate radiographic equipment & supplies utilized in the imaging department.
- 1.5** Describe the general policies & procedures of the hospital & imaging department.
- 1.6** Describe the procedures employed for patient & environmental emergencies.

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Unit 2 Patient Transportation & Clerical Functions

General Outcome:

2.0 The student shall be able to successfully transport patients & perform clerical functions within the clinical setting.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 2.1** Describe the procedures necessary for transportation of patients.
- 2.2** Identify & locate patient transportation devices & equipment.
- 2.3** Safely transport ambulatory, wheelchair, & stretcher patients.
- 2.4** Safely transfer patients onto & off of radiographic equipment.
- 2.5** Demonstrate proper use of the department's telephone system.
- 2.6** Access & operate the department's computer system.
- 2.7** Process & interpret imaging requisitions.
- 2.8** Access & locate completed imaging studies & reports.

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Unit 3 Radiographic Rooms & Imaging Equipment

General Outcome:

3.0 The student shall be able to accurately maintain a radiographic room & safely operate imaging equipment.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 3.1** Identify all equipment & supplies in a radiographic room.
- 3.2** Stock a radiographic room with necessary supplies.
- 3.3** Demonstrate appropriate cleaning & disinfection of radiographic equipment.
- 3.4** Safely manipulate/operate a radiographic tube.
- 3.5** Safely manipulate/operate a radiographic table.
- 3.6** Safely manipulate/operate an upright bucky.
- 3.7** Safely manipulate/operate a fluoroscopic unit.
- 3.8** Accurately set technical factors on the control panel.
- 3.9** Safely manipulate/operate a portable unit.

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Unit 4 Image Processing

General Outcome:

4.0 The student shall be able to accurately process radiographic images.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 4.1** Describe the departmental procedures involved in processing radiographic images.
- 4.2** Differentiate between CR & DR image processing.
- 4.3** Utilize the department's software & hardware to process radiographic images.

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UNITS

Unit 5 Imaging of the Chest

General Outcome:

5.0 The student shall be able to accurately perform imaging procedures of the chest.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 5.1** Precisely identify a patient, explain the exam, & answer questions.
- 5.2** Prepare the radiographic room, equipment, & contrast media if applicable.
- 5.3** Assist the physician and/or technologist with the procedure when needed.
- 5.4** Position a patient correctly for each of the positions/projections used to demonstrate the chest.
- 5.5** Correctly employ positioning aids, immobilization devices, lead markers, & other radiographic accessories.
- 5.6** Demonstrate appropriate radiation protection of self, the patient, & others during the procedure.
- 5.7** Demonstrate appropriate patient care & safety precautions during the procedure.
- 5.8** Safely & accurately manipulate the radiographic equipment during the procedure.
- 5.9** Set accurate exposure factors for chest examinations.
- 5.10** Evaluate chest images for quality.

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Unit 6 Imaging of the Abdomen

General Outcome:

6.0 The student shall be able to accurately perform imaging procedures of the abdomen.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 6.1** Precisely identify a patient, explain the exam, & answer questions.
- 6.2** Prepare the radiographic room, equipment, & contrast media if applicable.
- 6.3** Assist the physician and/or technologist with the procedure when needed.
- 6.4** Position a patient correctly for each of the positions/projections used to demonstrate the abdomen.
- 6.5** Correctly employ positioning aids, immobilization devices, lead markers, & other radiographic accessories.
- 6.6** Demonstrate appropriate radiation protection of self, the patient, & others during the procedure.
- 6.7** Demonstrate appropriate patient care & safety precautions during the procedure.
- 6.8** Safely & accurately manipulate the radiographic equipment during the procedure.
- 6.9** Set accurate exposure factors for abdomen examinations.
- 6.10** Evaluate abdomen images for quality.

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Unit 7 Imaging of the Biliary Tract & Upper Gastrointestinal System

General Outcome:

7.0 The student shall be able to accurately perform imaging procedures of the biliary tract & upper Gastrointestinal system.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 7.1** Precisely identify a patient, explain the exam, & answer questions.
- 7.2** Prepare the radiographic room, equipment, & contrast media if applicable.
- 7.3** Assist the physician and/or technologist with the procedure when needed.
- 7.4** Position a patient correctly for each of the positions/projections used to demonstrate the biliary tract & upper gastrointestinal system.
- 7.5** Correctly employ positioning aids, immobilization devices, lead markers, & other radiographic accessories.
- 7.6** Demonstrate appropriate radiation protection of self, the patient, & others during the procedure.
- 7.7** Demonstrate appropriate patient care & safety precautions during the procedure.
- 7.8** Safely & accurately manipulate the radiographic equipment during the procedure.
- 7.9** Set accurate exposure factors for biliary tract & upper gastrointestinal system examinations.
- 7.10** Evaluate biliary tract & upper gastrointestinal system images for quality.

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Unit 8 Imaging of the Lower Gastrointestinal System

General Outcome:

8.0 The student shall be able to accurately perform imaging procedures of the lower gastrointestinal system.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 8.1** Precisely identify a patient, explain the exam, & answer questions.
- 8.2** Prepare the radiographic room, equipment, & contrast media if applicable.
- 8.3** Assist the physician and/or technologist with the procedure when needed.
- 8.4** Position a patient correctly for each of the positions/projections used to demonstrate the lower gastrointestinal system.
- 8.5** Correctly employ positioning aids, immobilization devices, lead markers, & other radiographic accessories.
- 8.6** Demonstrate appropriate radiation protection of self, the patient, & others during the procedure.
- 8.7** Demonstrate appropriate patient care & safety precautions during the procedure.
- 8.8** Safely & accurately manipulate the radiographic equipment during the procedure.
- 8.9** Set accurate exposure factors for lower gastrointestinal system examinations.
- 8.10** Evaluate lower gastrointestinal system images for quality.

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Unit 9 Imaging of the Urinary System

General Outcome:

9.0 The student shall be able to accurately perform imaging procedures of the urinary system.

Specific Measurable Learning Outcomes:

Upon successful completion of this unit, the student shall be able to:

- 9.1** Precisely identify a patient, explain the exam, & answer questions.
- 9.2** Prepare the radiographic room, equipment, & contrast media if applicable.
- 9.3** Assist the physician and/or technologist with the procedure when needed.
- 9.4** Position a patient correctly for each of the positions/projections used to demonstrate the urinary system.
- 9.5** Correctly employ positioning aids, immobilization devices, lead markers, & other radiographic accessories.
- 9.6** Demonstrate appropriate radiation protection of self, the patient, & others during the procedure.
- 9.7** Demonstrate appropriate patient care & safety precautions during the procedure.
- 9.8** Safely & accurately manipulate the radiographic equipment during the procedure.
- 9.9** Set accurate exposure factors for urinary system examinations.
- 9.10** Evaluate urinary system images for quality.