



BROWARD COLLEGE COURSE OUTLINE

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

COURSE TITLE: Clinical Education IV

COMMON COURSE NUMBER: RTE 2834

CREDIT HOURS: 3

CONTACT HOUR BREAKDOWN

CLOCK HOURS:

Lecture:

Lab:

Clinic: 384

Other:

PREREQUISITE(S): RTE 1523, RTE 1523L, RTE 1824

COREQUISITE(S):

PRE/COREQUISITE(S): RTE 2385, RTE 2457, RTE 2457L, RTE 2533

COURSE DESCRIPTION: Provides the student with continuing clinical experience for practical application of concepts & skills taught in lecture & laboratory. Clinical rotations include the main department, portables, the emergency room, the operating room, computed tomography (CT), angiography/interventional, cardiac catheterization lab, other ancillary imaging areas, & evenings. Students will perform, assist with, and/or observe CT scans, surgical exams, arthrograms, myelograms, hysterosalpingograms, sialograms, orthoroentgenograms, mammograms, bone density studies, angiograms, & procedures previously learned.

UNIT TITLES

1. Computed Tomography (CT) Imaging
2. Surgical Imaging
3. Contrast Studies of Other Organs
4. Orthoroentgenography
5. Mammography
6. Bone Densitometry
7. Angiography & Interventional Exams

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

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UNITS

Unit 1 Computed Tomography (CT) Imaging

General Outcome:

- 1.0 The student shall be able to accurately perform or assist with computed tomography (CT) imaging procedures.**

Specific Measurable Learning Outcomes:

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

- 1.1** Precisely identify a patient, explain the exam, & answer questions.
- 1.2** Prepare the CT room, scanner, equipment, & contrast media if applicable.
- 1.3** Assist the physician and/or technologist with the procedure when needed.
- 1.4** Position a patient correctly in the scanner for CT exams.
- 1.5** Correctly employ positioning aids, immobilization devices, & other radiographic accessories.
- 1.6** Demonstrate appropriate radiation protection of self, the patient, & others during the procedure.
- 1.7** Demonstrate appropriate patient care & safety precautions during the procedure.
- 1.8** Safely & accurately operate the CT scanner during the procedure.
- 1.9** Set accurate exposure factors for CT examinations.
- 1.10** Evaluate CT images for quality.

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UNITS

Unit 2 Surgical Imaging

General Outcome:

2.0 The student shall be able to accurately perform surgical imaging procedures.

Specific Measurable Learning Outcomes:

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

- 2.1 Precisely identify a patient having a surgical radiographic exam.
- 2.2 Prepare the surgical radiographic room and/or portable/C-arm equipment.
- 2.3 Assist the physician and/or technologist with the procedure when needed.
- 2.4 Position a patient correctly for surgical radiographic exams.
- 2.5 Correctly employ lead markers & other radiographic accessories.
- 2.6 Demonstrate appropriate radiation protection of self, the patient, & others during the procedure.
- 2.7 Demonstrate appropriate patient care & safety precautions during the procedure.
- 2.8 Safely & accurately manipulate the radiographic equipment during the procedure.
- 2.9 Demonstrate how to maintain sterility of self, the surgical field, & the equipment during surgical procedures.
- 2.10 Set accurate exposure factors for surgical radiographic examinations.
- 2.11 Evaluate surgical radiographic exams for quality.

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UNITS

Unit 3 Contrast Studies of Other Organs

General Outcome:

3.0 The student shall be able to accurately perform arthrograms, hysterosalpingograms, myelograms, & sialograms.

Specific Measurable Learning Outcomes:

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

- 3.1** Precisely identify a patient, explain the exam, & answer questions.
- 3.2** Prepare the radiographic room, equipment, sterile tray, & contrast media.
- 3.3** Assist the physician and/or technologist with the procedure when needed.
- 3.4** Position a patient correctly for each of the positions/projections used for arthrography, hysterosalpingography, myelography, & sialography.
- 3.5** Correctly employ positioning aids, immobilization devices, lead markers, & other radiographic accessories.
- 3.6** Demonstrate appropriate radiation protection of self, the patient, & others during the procedure.
- 3.7** Demonstrate appropriate patient care & safety precautions during the procedure.
- 3.8** Safely & accurately manipulate the radiographic equipment during the procedure.
- 3.9** Set accurate exposure factors for arthrography, hysterosalpingography, myelography, & sialography examinations.
- 3.10** Evaluate arthrography, hysterosalpingography, myelography, & sialography images for quality.

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UNITS

Unit 4 Orthoroentgenography

General Outcome:

4.0 The student shall be able to accurately perform orthoroentgenograms.

Specific Measurable Learning Outcomes:

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

- 4.1** Precisely identify a patient, explain the exam, & answer questions.
- 4.2** Prepare the radiographic room, equipment, & contrast media if applicable.
- 4.3** Assist the physician and/or technologist with the procedure when needed.
- 4.4** Position a patient correctly for each of the positions/projections used for orthoroentgenography.
- 4.5** Correctly employ positioning aids, immobilization devices, lead markers, & other radiographic accessories.
- 4.6** Demonstrate appropriate radiation protection of self, the patient, & others during the procedure.
- 4.7** Demonstrate appropriate patient care & safety precautions during the procedure.
- 4.8** Safely & accurately manipulate the radiographic equipment during the procedure.
- 4.9** Set accurate exposure factors for orthoroentgenography examinations.
- 4.10** Evaluate orthoroentgenography images for quality.

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UNITS

Unit 5 Mammography

General Outcome:

5.0 The student shall be able to accurately perform mammograms.

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 for mammography.
- 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 mammography examinations.
- 5.10** Evaluate mammography images for quality.

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UNITS

Unit 6 Bone Densitometry

General Outcome:

6.0 The student shall be able to accurately perform or assist with bone density examinations.

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 bone density 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 for bone densitometry.
- 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 bone density equipment during the procedure.
- 6.9** Set accurate exposure factors for bone density examinations.
- 6.10** Evaluate bone density reports for quality.

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UNITS

Unit 7 Angiography & Interventional Exams

General Outcome:

7.0 The student shall be able to accurately perform or assist with angiographic & interventional procedures.

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 angiography room, equipment, sterile tray, & contrast media.
- 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 for angiography & interventional exams.
- 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 angiography & interventional examinations.
- 7.10** Evaluate angiography & interventional images for quality.