



BROWARD COLLEGE COURSE OUTLINE

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

COURSE TITLE: Clinical Education V

COMMON COURSE NUMBER: RTE 2844

CREDIT HOURS: 3

CONTACT HOUR BREAKDOWN

CLOCK HOURS:

Lecture:

Lab:

Clinic: 384

Other:

PREREQUISITE(S): RTE 2385 RTE 2457, RTE 2457L, RTE 2533, RTE 2834

COREQUISITE(S):

PRE/COREQUISITE(S): RTE 2130, RTE 2130L, RTE 2623, RTE 2782

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), magnetic resonance imaging (MRI), sonography, nuclear medicine & PET, radiation therapy, other ancillary imaging areas, & evenings. Students will perform, assist with, and/or observe MRI scans, sonograms, nuclear medicine scans, radiation therapy, & procedures previously learned.

UNIT TITLES

1. Magnetic Resonance Imaging (MRI)
2. Sonography
3. Nuclear Medicine & Positron Emission Tomography (PET)
4. Radiation Therapy

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

Common Course Number: RTE 2844

UNITS

Unit 1 Magnetic Resonance Imaging (MRI)

General Outcome:

- 1.0 The student shall be able to accurately perform, assist with, and/or observe magnetic resonance imaging (MRI) 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 MRI 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 MRI exams.
- 1.5 Correctly employ positioning aids, immobilization devices, & other imaging accessories.
- 1.6 Demonstrate appropriate patient care & safety precautions during the procedure.
- 1.7 Safely & accurately operate the MRI scanner during the procedure.
- 1.8 Set accurate imaging factors for MRI examinations.
- 1.9 Evaluate MRI images for quality.

Common Course Number: RTE 2844

UNITS

Unit 2 Sonography

General Outcome:

2.0 The student shall be able to accurately perform, assist with, and/or observe sonography procedures.

Specific Measurable Learning Outcomes:

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

- 2.1 Precisely identify a patient, explain the exam, & answer questions.
- 2.2 Prepare the sonography room, unit, equipment, & contrast media if applicable.
- 2.3 Assist the physician and/or technologist with the procedure when needed.
- 2.4 Position a patient correctly for sonography exams.
- 2.5 Correctly employ positioning aids, immobilization devices, & other imaging accessories.
- 2.6 Demonstrate appropriate patient care & safety precautions during the procedure.
- 2.7 Safely & accurately operate the sonography unit during the procedure.
- 2.8 Set accurate imaging factors for sonography examinations.
- 2.9 Evaluate sonography images for quality.

Common Course Number: RTE 2844

UNITS

Unit 3 Nuclear Medicine & Positron Emission Tomography (PET)

General Outcome:

3.0 The student shall be able to accurately perform, assist with, and/or observe nuclear medicine & PET procedures.

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 nuclear medicine room, equipment, & isotopes.
- 3.3** Assist the physician and/or technologist with the procedure when needed.
- 3.4** Position a patient correctly for nuclear medicine exams.
- 3.5** Correctly employ positioning aids, immobilization devices, & other imaging 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 nuclear medicine equipment & PET scanner during the procedure.
- 3.9** Set accurate imaging factors for nuclear medicine & PET examinations.
- 3.10** Evaluate nuclear medicine scans & PET images for quality.

Common Course Number: RTE 2844

UNITS

Unit 4 Radiation Therapy

General Outcome:

4.0 The student shall be able to accurately perform, assist with, and/or observe radiation therapy procedures.

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 simulation or therapy room, equipment, & contrast media if applicable.
- 4.3** Assist the physician and/or therapist with the procedure when needed.
- 4.4** Position a patient correctly for simulation & treatment.
- 4.5** Correctly employ positioning aids, immobilization devices, & other imaging/treatment 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 simulation & therapy examinations.
- 4.10** Evaluate simulation images for quality.