



BROWARD COMMUNITY COLLEGE COURSE OUTLINE

LAST REVIEW: 2007-2008 **NEXT REVIEW:** 2012-2013 **STATUS:** A
(i.e. 2003-2004) *(i.e. 2008-2009)* *(A, I, D)*

COURSE TITLE: Non-Routine Procedures

COMMON COURSE NUMBER: RTE 2561

CREDIT HOURS: 1

CONTACT HOUR BREAKDOWN
(per 16 week term)

CLOCK HOURS:
(Voc. Course ONLY)

Lecture: 16 Lab:
Clinic: Other:

PREREQUISITE(S): RTE 2385, RTE 2844, RTE 2457, RTE 2457L, RTE 2573, RTE 2473

COREQUISITE(S):

PRE/COREQUISITE(S): RTE 2854

COURSE DESCRIPTION: Principles of radiographic anatomy and positioning for specialized diagnostic and interventional procedures. Students will study the radiographic equipment, positions/projections, and contrast media for each type of examination.

General Education Requirements – Associate of Arts Degree (AA), meets Area(s): Area
General Education Requirements – Associate in Science Degree (AS), meets Area(s): Area
General Education Requirements – Associate in Applied Science Degree (AAS), meets Area(s): Area

UNIT TITLES

1. Introduction to Special Procedures
2. Arthrography
3. Sialography
4. Hysterosalpingography
5. Myelography
6. Non Vascular Interventional Procedures
7. Angiography
8. Vascular Interventional Procedures



BROWARD COMMUNITY COLLEGE COURSE OUTLINE

EVALUATION:

Please provide a brief description (250 characters maximum) that details how students will be assessed on the course outcomes.

Assessment includes examinations, online assignments and posts.

**** Complete the following only if course is seeking general education status ****

GENERAL EDUCATION Competencies and Skills*:

Please highlight in green font all Competencies/Skills from the list below that apply to this course. In the box to the right of the Competency/Skill, enter all specific learning outcome numbers (i.e. 1.1, 2.7, 5.12) that apply.

1. Read with critical comprehension	
2. Speak and listen effectively	
3. Speak and listen effectively	
4. Think creatively, logically, critically, and reflectively (analyze, synthesize, apply, and evaluate)	
5. Demonstrate and apply literacy in its various forms: (highlight in green ALL that apply) (1. technological, 2. informational, 3. mathematical, 4. scientific, 5. cultural, 6. historical, 7. aesthetic and/or 8. environmental)	
6. Apply problem solving techniques to real-world experiences	
7. Apply methods of scientific inquiry	
8. Demonstrate an understanding of the physical and biological environment and how it is impacted by human beings	
9. Demonstrate an understanding of and appreciation for human diversities and commonalities	
10. Collaborate with others to achieve common goals.	
11. Research, synthesize and produce original work	
12. Practice ethical behavior	
13. Demonstrate self-direction and self motivation	
14. Assume responsibility for and understand the impact of personal behaviors on self and society	
15. Contribute to the welfare of the community	

**General Education Competencies and Skills endorsed by '05-'06 General Education Task Force*



Common Course Number: RTE 2561

UNITS

Unit 1 Introduction to Special Procedures

General Outcome:

- 1.0 The student shall be able to describe common special and interventional radiographic procedures.**

Specific Measurable Learning Outcomes:

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

- 1.1 Differentiate between diagnostic special procedure & interventional procedures.**
- 1.2 Discuss the invasive nature of special & interventional procedures.**
- 1.3 Describe informed consent procedures related to special & interventional examinations.**
- 1.4 Identify & describe equipment necessary for the performance of specialized procedures.**
- 1.5 Identify the personnel involved in performance of special & interventional procedures.**



Common Course Number: RTE 2561

UNITS

Unit 2 Arthrography

General Outcome:

- 2.0 The student shall be able to describe the general procedures, equipment, and contrast media employed for arthrography.**

Specific Measurable Learning Outcomes:

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

- 2.1** Identify the anatomy related to arthrography.
- 2.2** Describe the physiology of synovial joints.
- 2.3** Discuss the indications for performing arthrography.
- 2.4** Discuss the contraindications for performing arthrography.
- 2.5** Describe the patient preparation for arthrography.
- 2.6** Identify & describe the equipment, supplies, & contrast media used for arthrography.
- 2.7** Describe the positions/projections employed for knee & shoulder arthrograms.



Common Course Number: RTE 2561

UNITS

Unit 3 Sialography

General Outcome:

3.0 The student shall be able to describe the general procedures, equipment, and contrast media employed for sialography.

Specific Measurable Learning Outcomes:

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

- 3.1** Identify the anatomy related to sialography.
- 3.2** Describe the physiology of the salivary glands & ducts.
- 3.3** Discuss the indications for performing sialography.
- 3.4** Discuss the contraindications for performing sialography.
- 3.5** Describe the patient preparation for sialography.
- 3.6** Identify & describe the equipment, supplies, & contrast media used for sialography.
- 3.7** Describe the positions/projections employed for a sialogram.



Common Course Number: RTE 2561

UNITS

Unit 4 Hysterosalpingography

General Outcome:

4.0 The student shall be able to describe the general procedures, equipment, and contrast media employed for hysterosalpingography.

Specific Measurable Learning Outcomes:

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

- 4.1** Identify the anatomy related to hysterosalpingography.
- 4.2** Describe the physiology of the female reproductive tract.
- 4.3** Discuss the indications for performing hysterosalpingography.
- 4.4** Discuss the contraindications for performing hysterosalpingography.
- 4.5** Describe the patient preparation for hysterosalpingography.
- 4.6** Identify & describe the equipment, supplies, & contrast media used for hysterosalpingography.
- 4.7** Describe the positions/projections employed for a hysterosalpingogram.



Common Course Number: RTE 2561

UNITS

Unit 5 Myelography

General Outcome:

5.0 The student shall be able to describe the general procedures, equipment, and contrast media employed for myelography.

Specific Measurable Learning Outcomes:

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

- 5.1** Identify the anatomy related to myelography.
- 5.2** Describe the physiology of the nervous system.
- 5.3** Discuss the indications for performing myelography.
- 5.4** Discuss the contraindications for performing myelography.
- 5.5** Describe the patient preparation for myelography.
- 5.6** Identify & describe the equipment, supplies, & contrast media used for myelography.
- 5.7** Describe the positions/projections employed for a myelogram.



Common Course Number: RTE 2561

UNITS

Unit 6 Non-Vascular Interventional Procedures

General Outcome:

- 6.0 The student shall be able to describe the general procedures, equipment, and contrast media employed for common non-vascular interventional procedures.**

Specific Measurable Learning Outcomes:

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

- 6.1** Identify the anatomy related to non-vascular interventional procedures.
- 6.2** Describe the physiology related to non-vascular interventional procedures.
- 6.3** Discuss the indications for performing non-vascular interventional procedures.
- 6.4** Discuss the contraindications for performing non-vascular interventional procedures.
- 6.5** Describe the patient preparation for non-vascular interventional procedures.
- 6.6** Identify & describe the equipment, supplies, & contrast media used for nephrostomies, biliary drainage, abscess drainage, needle biopsies, & PEG tube placements.
- 6.7** Describe the positions/projections employed for nephrostomies, biliary drainage, abscess drainage, needle biopsies, & PEG tube placements.



Common Course Number: RTE 2561

UNITS

Unit 7 Angiography

General Outcome:

7.0 The student shall be able to describe the general procedures, equipment, and contrast media employed for angiography.

Specific Measurable Learning Outcomes:

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

- 7.1** Identify the anatomy related to angiography.
- 7.2** Describe the physiology of the cardiovascular & circulatory systems.
- 7.3** Discuss the indications for performing angiography.
- 7.4** Discuss the contraindications for performing angiography.
- 7.5** Describe the patient preparation for angiography.
- 7.6** Identify & describe the equipment, supplies, & contrast media used for venograms, lymphangiograms, arteriograms, & angiocardiograms (cardiac catheterization).
- 7.7** Describe the positions/projections employed for venograms, lymphangiograms, arteriograms, & angiocardiograms (cardiac catheterization).



Common Course Number: RTE 2561

UNITS

Unit 8 Vascular Interventional Procedures

General Outcome:

- 8.0 The student shall be able to describe the general procedures, equipment, and contrast media employed for common vascular interventional procedures.**

Specific Measurable Learning Outcomes:

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

- 8.1** Identify the anatomy related to vascular interventional procedures.
- 8.2** Describe the physiology related to vascular interventional procedures.
- 8.3** Discuss the indications for performing vascular interventional procedures.
- 8.4** Discuss the contraindications for performing vascular interventional procedures.
- 8.5** Describe the patient preparation for vascular interventional procedures.
- 8.6** Identify & describe the equipment, supplies, & contrast media used for percutaneous transluminal angioplasty (PTA), percutaneous transluminal coronary angioplasty (PTCA), vascular stent placement, embolization, inferior vena cava filter placements, & thrombolysis.
- 8.7** Describe the positions/projections employed for percutaneous transluminal angioplasty (PTA), percutaneous transluminal coronary angioplasty (PTCA), vascular stent placement, embolization, inferior vena cava filter placements, & thrombolysis.