



BROWARD COMMUNITY COLLEGE COURSE OUTLINE

LAST REVIEW: 2008 -2009 **NEXT REVIEW:** 2013 -2014- **STATUS:** A

COURSE TITLE: Radiographic Anatomy & Positioning II Laboratory

COMMON COURSE NUMBER: RTE 1513L

CREDIT HOURS: 1

CONTACT HOUR BREAKDOWN

(per 16 week term)

CLOCK HOURS:

(Voc. Course ONLY)

Lecture: Lab: 32

Clinic: Other:

PREREQUISITE(S): RTE 1000, RTE 1111, RTE 1503, RTE 1513L, RTE 1804

COREQUISITE(S):

PRE/COREQUISITE(S): RTE 1418, RTE 1418L, RTE 1513, RTE 1814

COURSE DESCRIPTION: Laboratory course content parallels the material taught in the RTE1513 which must be taken concurrently with this lab. Course content will include the upper and lower extremity, including shoulder and pelvic girdle, and the vertebral column including the sacrum and coccyx.

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. Equipment Orientation and Basic Positioning Principles
2. Positioning of the Upper Limb: Fingers, Hand and Wrist
3. Positioning of the Upper Limb: Forearm, Elbow and Humerus
4. Positioning of the Upper Limb: Shoulder, Clavicle, Scapula and AC Joints
5. Positioning of the Lower Limb: Toes, Foot and Ankle
6. Positioning of the Lower Limb: Tibia, Fibula, Knee and Femur
7. Positioning of the Hip and Pelvis
8. Positioning of the Spine: Cervical, Thoracic, Lumbar, Sacrum and Coccyx



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ASSESSMENT:

Please provide a brief description (250 characters maximum) that details how students will be assessed on the course outcomes.
Laboratory equipment use and patient positioning competency check offs.

**** 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*



BROWARD COMMUNITY COLLEGE COURSE OUTLINE

Common Course Number: 1513L

UNITS

Unit 1 Equipment Orientation and Basic Positioning Principles

General Outcome:

- 1.0 The student shall:** be able to accurately manipulate the radiographic equipment and accessories and demonstrate an understanding of basic positioning principles.

Specific Measurable Learning Outcomes:

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

- 1.1 Set the tube and table to the detent positions
- 1.2 Correctly position patients & equipment for routine positions
- 1.3 Correctly warm up the radiographic equipment
- 1.4 Correctly turn on the radiographic processor
- 1.5 Correctly identify and describe all accessory radiographic equipment
- 1.6 Correctly identify all standard cassette sizes and types



UNITS

Unit 2 Positioning of the Upper Limb: Fingers, Hands & Wrist

General Outcome:

- 2.0 The student shall:** be able to accurately position a lab partner or phantom for any of the routine views employed to demonstrate the fingers, hand & wrist.

Specific Measurable Learning Outcomes:

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

- 2.1** Identify/locate on a diagram, radiograph or skeleton any of the anatomic structures of the fingers, hand and wrist
- 2.2** Radiographically demonstrate the fingers, hands & wrist
- 2.3** Describe and demonstrate the positions and projections employed to radiograph the fingers, hand & wrist.
- 2.4** Demonstrate optional projections employed for radiography of the fingers, hand and wrist.
- 2.5** Appropriately employ all technical factors for radiography of the fingers, hand and wrist, i.e., the SID, Film Holder type, patient protection, mA, Time and kVp.
- 2.6** Determine the quality of radiographs of the fingers, hand, & wrist, and suggest corrections in technique as indicated by the film quality
- 2.7** Correctly position a patient (phantom or lab partner) for each of the basic & optional positions or projections employed for radiography of the fingers, hand, or wrist



UNITS

Unit 3 Positioning of the Upper Limb: Forearm, Elbow & Humerus

General Outcome:

- 3.0 The student shall:** be able to accurately position a lab partner or phantom for any of the routine views employed to demonstrate the forearm, elbow & humerus.

Specific Measurable Learning Outcomes:

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

- 3.1** Identify/locate on a diagram, radiograph or skeleton any of the anatomic structures of the forearm, elbow & humerus
- 3.2** Radiographically demonstrate the forearm, elbow & humerus
- 3.3** Describe and demonstrate the positions and projections employed to radiograph the forearm, elbow & humerus.
- 3.4** Demonstrate optional projections employed for radiography of the forearm, elbow & humerus.
- 3.5** Appropriately employ all technical factors for radiography of the forearm, elbow & humerus; including the SID, Film Holder type, patient protection, mA, Time and kVp.
- 3.6** Determine the quality of radiographs of the forearm, elbow & humerus, and suggest corrections in technique as indicated by the film quality.
- 3.7** Correctly position a patient (phantom or lab partner) for each of the basic & optional positions or projections employed for radiography of the forearm, elbow & humerus.



UNITS

Unit 4 Positioning of the Upper Limb: Shoulder, Clavicle, Scapula & AC Joints

General Outcome:

- 4.0 The student shall:** be able to accurately position a lab partner or phantom for any of the routine views employed to demonstrate the shoulder, clavicle, scapula & AC joints.

Specific Measurable Learning Outcomes:

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

- 4.1** Identify/locate on a diagram, radiograph or skeleton any of the anatomic structures of the shoulder, clavicle, scapula & AC joints
- 4.2** Radiographically demonstrate the shoulder, clavicle, scapula & AC joints
- 4.3** Describe and demonstrate the positions and projections employed to radiograph the shoulder, clavicle, scapula & AC joints.
- 4.4** Demonstrate optional projections employed for radiography of the shoulder, clavicle, scapula & AC joints.
- 4.5** Appropriately employ all technical factors for radiography of the shoulder, clavicle, scapula & AC joints; including the SID, Film Holder type, patient protection, mA, Time and kVp.
- 4.6** Determine the quality of radiographs of the shoulder, clavicle, scapula & AC joints, and suggest corrections in technique as indicated by the film quality.
- 4.7** Correctly position a patient (phantom or lab partner) for each of the basic & optional positions or projections employed for radiography of the shoulder, clavicle, scapula & AC joints.



UNITS

Unit 5 Positioning of the Lower Limb: Toes, Foot & Ankle

General Outcome:

- 5.0 The student shall:** be able to accurately position a lab partner or phantom for any of the routine views employed to demonstrate the toes, foot & ankle.

Specific Measurable Learning Outcomes:

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

- 5.1** Identify/locate on a diagram, radiograph or skeleton any of the anatomic structures of the toes, foot & ankle
- 5.2** Radiographically demonstrate the toes, foot & ankle
- 5.3** Describe and demonstrate the positions and projections employed to radiograph the toes, foot & ankle.
- 5.4** Demonstrate optional projections employed for radiography of the toes, foot & ankle.
- 5.5** Appropriately employ all technical factors for radiography of the toes, foot & ankle; including the SID, Film Holder type, patient protection, mA, Time and kVp.
- 5.6** Determine the quality of radiographs of the toes, foot & ankle, and suggest corrections in technique as indicated by the film quality.
- 5.7** Correctly position a patient (phantom or lab partner) for each of the basic & optional positions or projections employed for radiography of the toes, foot & ankle.



UNITS

Unit 6 Positioning of the Lower Limb: Tibia-fibula, knee & femur

General Outcome:

- 6.0 The student shall:** be able to accurately position a lab partner or phantom for any of the routine views employed to demonstrate the tibia-fibula, knee & femur.

Specific Measurable Learning Outcomes:

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

- 6.1** Identify/locate on a diagram, radiograph or skeleton any of the anatomic structures of the tibia-fibula, knee & femur
- 6.2** Radiographically demonstrate the tibia-fibula, knee & femur
- 6.3** Describe and demonstrate the positions and projections employed to radiograph the tibia-fibula, knee & femur.
- 6.4** Demonstrate optional projections employed for radiography of the tibia-fibula, knee & femur.
- 6.5** Appropriately employ all technical factors for radiography of the tibia-fibula, knee & femur; including the SID, Film Holder type, patient protection, mA, Time and kVp.
- 6.6** Determine the quality of radiographs of the tibia-fibula, knee & femur, and suggest corrections in technique as indicated by the film quality.
- 6.7** Correctly position a patient (phantom or lab partner) for each of the basic & optional positions or projections employed for radiography of the tibia-fibula, knee & femur.



UNITS

Unit 7 Positioning of the Hip & pelvis

General Outcome:

- 7.0 The student shall:** be able to accurately position a lab partner or phantom for any of the routine views employed to demonstrate the hip & pelvis.

Specific Measurable Learning Outcomes:

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

- 7.1** Identify/locate on a diagram, radiograph or skeleton any of the anatomic structures of the hip & pelvis
- 7.2** Radiographically demonstrate the hip & pelvis
- 7.3** Describe and demonstrate the positions and projections employed to radiograph the hip & pelvis.
- 7.4** Demonstrate optional projections employed for radiography of the hip & pelvis.
- 7.5** Appropriately employ all technical factors for radiography of the hip & pelvis; including the SID, Film Holder type, patient protection, mA, Time and kVp.
- 7.6** Determine the quality of radiographs of the hip & pelvis, and suggest corrections in technique as indicated by the film quality.
- 7.7** Correctly position a patient (phantom or lab partner) for each of the basic & optional positions or projections employed for radiography of the hip & pelvis.



UNITS

Unit 8 Positioning of the Spine: Cervical, Thoracic, Lumbar, Sacral & Coccygeal

General Outcome:

- 7.0 The student shall:** be able to accurately position a lab partner or phantom for any of the routine views employed to demonstrate the Spine: Cervical, Thoracic, Lumbar, Sacral & Coccygeal.

Specific Measurable Learning Outcomes:

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

- 8.1** Identify/locate on a diagram, radiograph or skeleton any of the anatomic structures of the Spine: Cervical, Thoracic, Lumbar, Sacral & Coccygeal
- 8.2** Radiographically demonstrate the Spine: Cervical, Thoracic, Lumbar, Sacral & Coccygeal
- 8.3** Describe and demonstrate the positions and projections employed to radiograph the Spine: Cervical, Thoracic, Lumbar, Sacral & Coccygeal.
- 8.4** Demonstrate optional projections employed for radiography of the Spine: Cervical, Thoracic, Lumbar, Sacral & Coccygeal.
- 8.5** Appropriately employ all technical factors for radiography of the Spine: Cervical, Thoracic, Lumbar, Sacral & Coccygeal; including the SID, Film Holder type, patient protection, mA, Time and kVp.
- 8.6** Determine the quality of radiographs of the Spine: Cervical, Thoracic, Lumbar, Sacral & Coccygeal, and suggest corrections in technique as indicated by the film quality.
- 8.7** Correctly position a patient (phantom or lab partner) for each of the basic & optional positions or projections employed for radiography of the Spine: Cervical, Thoracic, Lumbar, Sacral & Coccygeal.