School of Nursing and Health Professions Syllabus

HUDSON COUNTY COMMUNITY COLLEGE
HUDSON is HOME!

Term: **Credit: 3CR** **Office Hours:**

Course Code: RAD 207 m **Office Location:**

Title of Course: Radiographic Imaging IV **Email:**

Days & Times: **Phone:**

Location: **Prerequisites/ Corequisites: RAD 103, 105, 105 Co-Req RAD 204**

Instructor:

COURSE DESCRIPTION:

In this last course of a series of anatomy and positioning terminology and their procedures and protocols for all skull, all contrast studies, and additional advanced studies for imaging. Such studies include the following: Myelography, Arthrography, Hysterosalpinogography, Postoperative (T-tube or Delayed) Cholangiography, Excretory/Intravenous Urography (IVU), Retrograde Urography/Cystography, Voiding Cystourethrography and Endoscopic Retrograde Cholangiographic Pancreatography (ERCP) are presented. Demonstration of applicable factors and protection methods are learned as well as using problem solving methodologies to achieve quality radiographs while providing compassionate and optimum patient care. Didactic course material lecture; 3 hours. Didactic course material lecture with testing scheduled; 4 hours. Laboratory demonstrations performed in lab room on campus; 2 hours.

COURSE OBJECTIVE:

- Define general radiographic and anatomic relational terminology.
- Identify specific anatomical structures in radiographs and drawings for contrast
- studies, skull and advanced imaging studies.
- List the correct central ray placement, part position, and criteria for contrast
- studies, skull, and advanced imaging studies.
- Based on clinical situations, describe the preferred positioning routine to assist the
- physician with the diagnosis of a specific condition or disease process.
- Distinguish between acceptable and unacceptable radiographs based on exposure
- factors, motion, collimation, positioning, or other errors.
- Given a hypothetical situation, identify the correct modifications of positions,
- exposure factors, or both to improve the radiographic image.

STUDENT LEARNING OUTCOMES:

SLO 1: Radiographic Imaging Procedures

- Have Patient identification confirmation using at least two patient identifiers.

- Determine the patient's identity and proper examination using information on the requisition
- form.
- Interview patient in order to obtain pertinent information prior to beginning the imaging exam.
- Correctly position and analyze the imaging studies learned.

SLO 2: Procedure confirmation

- Record patient information on requisition form using medical terminology knowledge.
- Examine x-ray requisition form to verify the accuracy and completeness of information.

SLO 3: Positioning Terminology

- Define terms used to describe radiographic positioning.

SLO 4: Positioning aids and Accessories

- Describe various positioning aid applications, their functions; advantages/disadvantages.
- Demonstrate the use of calipers; lead markers and their application in radiography

Lab/Clinical:

First Step: Lab demonstration class is mandatory and is completed in the non-energized lab room on campus before the Didactic portion of the imaging studies.

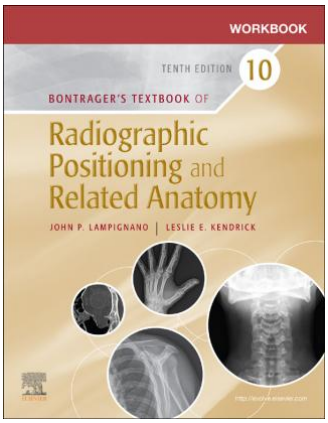
Second Step: Lab Evaluations are performed by students who have successfully passed the didactic component of the imaging study. School faculty observe and grade the student on lab evaluations. Date of performed lab is documented on Student's Individual CCE record. Passing grade on lab evaluations is 85% and must be completed before student moves onto Performance of Patient Procedure phase.

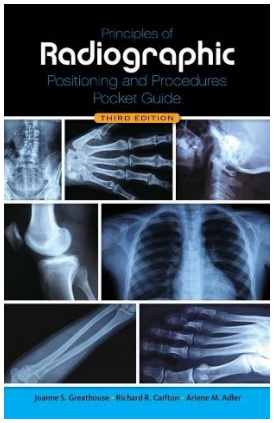
Third Step: Patient Performance Phase: *Students must perform One Patient Procedure (non-graded) under Direct Supervision Prior to performing a (graded) ICCE. Students must document and have signed by a licensed R.T. (staff radiographer) on their Student Individual CCE record that they have performed the radiographic study.* The student can perform the study immediately after passing the lab evaluation, once the study becomes available in the department.

TEXTBOOK REQUIRED:

Lampignano & Bontrager, (2021) Textbook & Workbook for Radiographic Positioning and Related Anatomy, 10th ed. **(2 Books)**

Carlton, Greathouse & Adler, (2024) Bontrager's Handbook of Radiographic Positioning and Techniques *(pocket guide for use at clinical),* 10th ed





EVALUATION METHODS:

- # of unit section averages = 70% of final grade
- Final Exam = 30% of final grade
- Total = 100% for final grade of subject

WEEKLY OUTLINE:

Week	Topic	Learning Outcomes (L.O)
1	Skull anatomy /Skull series projections	SLO 1
2	Paranasal Sinus Organs of Hearing to Windows of the Internal Ear	SLO 1 & 2
3	Facial Bones	SLO 1 & 2
4	All Cranium anatomy and positioning	SLO 1 & 2
5	Biliary Tract and Upper Gastrointestinal System	SLO 2 & 3
6	Biliary Tract and Upper Gastrointestinal System	SLO 2 & 3
7	Lower Gastrointestinal System	SLO 2 & 3
8	Lower Gastrointestinal System Barium Enemas	SLO 1, 2, 3, & 4
9	Prep Work	SLO 1, 2, 3, & 4
10	Biliary Tract – anatomy	SLO 1, 2, 3, & 4
11	Advanced studies: Special Procedures	SLO 1, 2, 3, & 4
12-14	Review Weeks	Review Weeks
15	Final Exam	FINAL

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https://www.hccc.edu/administration/academic-affairs/syllabus-addendum.html