

Eugenio María de Hostos Community College – Radiologic Technology Program

SPRING 2022 – XRA 124 CONTRAST MEDIA

Faculty Information:

Instructor: Professor Jarek Stelmark
Office: A307- K
Office Hours: Thursdays 12:15 pm (noon) – 1:15 pm (**online**)
Friday 10 am – 1:00 pm (**in person**)
Phone: (718) 518-4119 (*direct*) or (718) 518-4123(*secretary*)
E-mail: jstelmark@hostos.cuny.edu

Course Description:

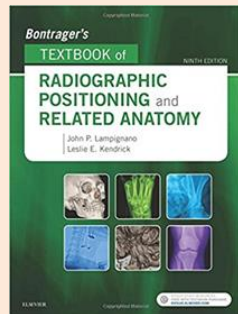
The student will identify the composition and use of contrast media and radiographic procedures involving the digestive system, biliary tract and urinary system.
Pre-requisite: XRA 110; XRA 111

Course Meeting Time:

Wednesdays: 12:30 pm – 1:45 pm
In Person Room B501

Recommended Textbooks:

Textbook of Radiographic Positioning and Related Anatomy, 8e
Kenneth L. Bontrager MA RT(R) and John Lampignano MEd RT(R) (CT)- Latest Edition
St. Louis: Elsevier Mosby, Inc. ISBN: 978-0-323-08388-1



**Grading
Criteria:**

Test 1	20%
Test 2 (Mid-Term)	20%
Test 3	20%
Final Exam	40%
* Final Exam will be Cumulative	

A	=	93 – 100
A-	=	90 – 92
B+	=	87 – 89
B	=	83 – 86
B-	=	80 – 82
C+	=	77 – 79
C	=	70 – 76
D	=	60 – 69 = Fail
F	=	00 – 59 = Fail

* **Passing Grade is 75**

**Course
Outline:**

1. Introduction to contrast media

2. Introduction to Fluoroscopy

Test 1

3. Urinary System and Pathology

4. Radiographic procedures of Urinary System

5. Biliary Tract and Radiographic procedures

Test 2 (Mid-Term)

6. Gastrointestinal System

7. Radiographic Procedures of Esophagus – Esophagram

8. Radiographic Procedures of Upper Gastro-Intestinal (UGI)

9. Radiographic Procedures of Small Bowel Series (SBS)

Test 3

10. Radiographic Procedures of Lower Gastrointestinal System I (LGI)

11. Radiographic Procedures of Lower Gastrointestinal System II (LGI)

Final Examination (Cumulative)

Course Objectives:

Upon completion of the course, students will be able to

1. List different types of contrast media
2. Explain different methods and routes of contrast media administration
3. Describe different side effect and adverse reactions following contrast administration and the technologist's response.
4. List pathological indications for the specific contrast media studies.
5. Position patient for the following studies: Esophagram, UGI, SBS, BE, Urography, and cystography.

Teaching Methods:

1. Audiovisual (PowerPoint presentations) and handouts
2. Classroom lectures, discussions and demonstrations.

Classroom Policies:

1. Cell phones must be turned off or placed on “vibrate” mode when in the classroom.
2. Students who arrive after the class has begun should enter the classroom quietly without making any unnecessary noise.
3. Unruly and/or disruptive behavior may be subject to disciplinary action.
4. Students who create a material or substantial interruption of the educational process will be dismissed from the class and referred to the Disciplinary Committee to determine if additional sanctions - including suspension or dismissal from the program - are warranted.

Student Responsibilities:

Students are expected to:

1. Come to class on time
 2. Perform all lesson objectives, activities and reading assignments.
 3. Complete and hand in all written assignments on or before their due date.
 4. Demonstrate proficiency on all homework and written assignments.
 5. Demonstrate knowledge and comprehension of Topographic Anatomy discussed in class.
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**Use of
Electronic Devices:**

Electronic devices include cell phones, smart phones, smart watches, smart pens, phablets, tablets, programmable calculators, camera-ready devices, and any other electronic device which can be used to record a lecture, photograph or duplicate test materials, access the internet and/or communicate with others during lectures, labs, or exams. **Electronic devices may not be used for audio or visual recording of a lecture or lab without prior expressed consent of the instructor.** Basic, non-programmable calculators are not classified as electronic devices.

Sending or receiving cell phone calls or text messages in classrooms and labs is inappropriate, disruptive, and may be a violation of the exam security policies listed below. During lectures and labs, electronic devices may be used for immediate course-related purposes only; otherwise, they must be set to “off” or “vibrate”, removed from the desktop, and put away. If you receive an important call, quietly leave the room and answer the call in the hallway. Talking or texting on cell phones during lectures and labs is not permitted.

**Attendance
Policies:**

1. All classes are mandatory and online participation is vital.
2. If a student is absent for more than 2 of the classes, the instructor may lower the grade or fail the student for excess absences
3. Absences in excess of two require documentation to be excused.

Lateness:

1. Students are required to come to class on time.
2. Three lateness's will be counted as one absence from class.
3. Students who arrive more than 10 min late (after lab instructions have been explained) will NOT be permitted to join the lab groups in progress as they pose a significant risk to property, themselves and others.

**Academic
Integrity:**

Students are responsible for upholding the academic integrity of the program by not participating either directly or indirectly in acts of cheating and by discouraging others from doing so.

Students' responsibilities include, but are not limited to, the following:

1. No student shall give or receive any assistance or communicate in any way with another student while an examination is in progress.
 2. No student shall use unauthorized notes, books or other materials during an examination.
 3. No student shall attempt to obtain or disseminate the content of any examination prior to its distribution by the proctor.
 4. No student shall procure or distribute answers to examinations in advance.
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**Written
Assignment
Policies:**

1. Written assignments must be the product of the student's own research.
2. No student shall submit work that has been written by someone else or copied from an outside source.
3. No student shall submit work that has been previously submitted in either whole or part for academic credit. This is termed "self-plagiarism."
4. Late assignments may not be accepted; if accepted, points will be deducted.
5. Students who engage in academic dishonesty will receive a grade of zero for the assignment.
6. All violations of the academic integrity policy shall be referred to the Disciplinary Committee to determine if additional sanctions - including suspension or dismissal from the program - are warranted.

**Examination
Policies:**

1. No student may remove an exam from the classroom under any circumstances
 2. Exams are timed; they must be completed within the stated time frame
 3. Students who arrive late for an exam will not receive extra time to complete the exam.
 4. No credit will be given for questions left unanswered regardless of the reason.
 5. Students are responsible for correctly completing all test answer keys.
 6. Make-up exams will only be considered for major exams in extraordinary circumstances that justify special consideration. ***Verifiable documentation is required.***
 7. All requests for make-up exams will be determined by the instructor, based upon the merits of the request, on a case-by-case basis. *Submitting a request for a make-up exam does not guarantee that permission will be granted.*
 8. If the instructor grants permission for a make-up exam, *it will be scheduled during the week of final exams.*
 9. No student will be granted permission for more than one make-up exam for a course; ***a grade of zero will be given for any additional missed exams.***
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Students with Disabilities:

As required by section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, reasonable accommodations are provided to ensure equal opportunity for students with verified disabilities.

It is important that all prospective and current students be aware of the essential functions necessary to complete the radiologic technology program requirements. These are the same as the technical and physical job requirements for all radiologic technologists working in the field today.¹

Students must be able to:

1. Assess and accurately understand requisitions, orders, charts, directions, and other job-related documents and communications.
2. Independently travel through the radiology department and to other departments and floors of the hospital.
3. Assist patients to transfer from beds, wheelchairs, and stretchers to the radiographic table and back.
4. Give clear verbal commands to a patient and communicate effectively with patients and professional staff; including with individuals wearing masks.
5. Independently access, adjust, and operate radiographic equipment.
6. Independently assess the ongoing functioning of the radiographic machine and other equipment.
7. Independently assess radiographic images, controls, labels, and observe patients.
8. Work in a sterile environment, prepare sterile fields, and fill sterile syringes.

If you have a disability that requires accommodations, contact:

Services for Students with Disabilities (SSWD)

Mr. Raymond Perez, Student Disabilities Services Manager

rmperez@hostos.cuny.edu

Services for Students with Disabilities (SSWD)

Savoy (D) Building

120 Walton Ave, Room D101P

Bronx, NY 10451

Phone: (718) 518-4454 (Voice/TTY)

If you are already registered with SSWD and have a letter from them verifying that you are a qualified student with a disability, please present the letter to the instructor as soon as possible. The instructor will work with you and SSWD to plan and implement appropriate accommodations.

Please Note: *Students who do not register with the Services for Students with Disabilities office and have their disability verified are not eligible to receive any special accommodations.*

This is adapted from McBride, J. A. & Reed, M. A. (2010). Program literature, accreditation standards, and ADA compliance. *AEIRS Spectrum* 21(3), 11-12.