

SPRING 2020 – XRA 123 RADIOGRAPHIC ANATOMY 2

Faculty Information:

Instructor: Prof. Jarek Stelmark
Office: A307-U
Office Hours: Wednesday 11:00 – 12:15 pm
Tuesday 12:30 – 01:45 pm
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Course Description:

This course is designed to familiarize the student with bony skull anatomy. The student will be able to identify the anatomy, surface landmarks and baselines of the skull using diagrams, handouts and radiographs. The course will prepare students for XRA 120 Radiography 2. In addition, cross-sectional anatomy of the head, neck, chest, abdomen and pelvis will be taught using diagrams, handouts and radiographic images. The student will learn basic cross-sectional anatomy to prepare them for Computed Tomography and Magnetic Resonance Imaging.

Imaging Pre-requisite: XRA 113 Topographic Anatomy I

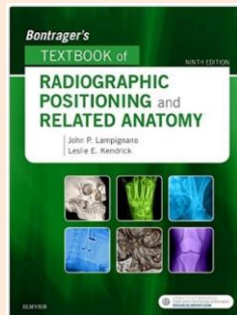
Co-requisite: XRA 120 Radiography 2

Course Meetings:

Lectures: Fri 08:00 am – 09:15 am

Required Textbooks:

Kenneth L. Bontrager MA RT(R) and John Lampignano MEd RT(R) (CT) (Feb 21, 2013) Textbook of Radiographic Positioning and Related Anatomy, 8e St. Louis: Elsevier Mosby, Inc. ISBN: 978-0-323-08388-1



**Additional
Required
Course
Materials:**

The following copyrighted materials are the sole property of the instructor.
They are available on the instructors website and are free for students enrolled in this course only.

Rad science 2 : PPT presentations

Hostos Community College, Radiologic Technology Program

**Grading
Criteria:**

Lecture 70%

Test 1 15 % Quiz 1

Test 2 30 % Midterm Exam

Test 3 15 % Quiz 2

Test 4 40 % Final Exam

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

**Lecture
Outline:**

1. Radiographic Baselines
2. Skull Anatomy Calvarium
3. Skull Anatomy Floor
4. Skull Cap
5. Skull Cross-sectional Anatomy

Test 1 - 50 Multiple choice questions

6. Facial Bones 1
7. Facial Bones 2
8. Cross-sectional anatomy of Facial Bones

Midterm Exam - 75 Multiple choice questions

9. Temporal Bones 1
10. Temporal Bones 2
10. Cross-sectional Anatomy of Temporal Bones

Test 2- 50 Multiple choice questions

11. Paranasal Sinuses 1
12. Paranasal Sinuses 2
13. Cross-sectional Anatomy of Paranasal Sinuses

Final Exam 75 Multiple Choice Questions

**Lab
Outline:**

No lab component is attached to this course

Upon completion of the course, students will be able:

**Course
Objectives:**

1. Identify all bones of the skull on drawings, dry skulls and radiographic images.
2. Relate all landmarks utilizing proper terminology in describing their location in relation to other landmarks.
3. Locate and identify the regions and associated surface landmarks of the head and integrate that knowledge into patient examination utilizing correct terminology.
4. Define and locate the localizing lines of the skull.
5. Locate and name the sutures of the skull.
6. Develop an understanding of skull morphology.
7. List and understand the interrelationships of the bones of the cerebral cranium.
8. List and understand the interrelationships of the bones of the visceral cranium.
9. Identify all parts of the bones presented in power point presentations, lectures and assigned readings from the required textbook.
10. Critique and identify anatomy on a PA and PA axial radiographic images.
11. Critique and identify anatomy on a Waters and Lateral radiographic images.
12. Critique and identify anatomy on a Towne and Submentovertex radiographic image.

**Teaching
Methods:**

1. Radiographs
2. Handouts
3. PPT presentations
4. Discussions and demonstrations.
5. Virtual lab activities
6. Multimedia demonstrations
7. Homework assignments

Classroom Policies:

1. Cell phones and beepers 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. 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 the radiographic principles discussed in class as well as all assigned readings.

Cell phone use is not permitted during class time. Cell phones must be placed on “vibrate” mode. Emergency calls must be taken outside the classroom. During examinations, cell phones must be placed in a central location away from the testing area.

A simple, non-programmable calculator is permitted during examinations; students may not use – or have in their possession – a programmable calculator, or one that has advanced memory or logarithm functions.

Use of Electronic Devices:



Attendance Policies:

1. All classes are mandatory
 2. If a student is absent from more than 15% of the classes the instructor may lower the grade or fail the student for excess absences.
 3. Students who arrive after the lab has begun should enter the laboratory quietly without making any unnecessary noise.
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Lateness:

1. Students are required to come to class on time.
 2. Students who arrive more than 10 minutes late (*after the lab instructions have been explained to the class*) will NOT be permitted to join the lab groups in progress as they cause a significant risk to property, themselves and others.
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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
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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 sheets
6. When using a scantron answer sheet, a number "2" pencil must be used to fill in the bubbles.
7. No credit will be given for incompletely erased answers or blanks on a scantron.
8. Make-up exams are not given for quizzes.
9. Make-up exams will only be considered for major exams in extraordinary circumstances that justify special consideration. ***Verifiable documentation is required.***
10. 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.*
11. If the instructor grants permission for a make-up exam, *it will be scheduled during the week of final exams.*
12. 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.***

**Laboratory
Policies:**

No lab component is attached to this course

**Written Lab
Assignments:**

No lab component is attached to this course

**Students with
Disabilities:**

As required by 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.

If you have a disability that requires accommodations, contact:

Services for Students with Disabilities (SSWD)

Savoy (D) Building
120 Walton Ave, Room D101P
Bronx, NY 10451
Phone: (718) 518-4467 (Voice)
(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