



Spring Semester AY 2023 – 2024	American University of Beirut	
	Faculty of Health Sciences – Division of Health Professions	
	Medical Imaging Sciences Program	
	Course number	MIMG 206L
	Course name	<i>Principle of Imaging I Laboratory</i>

Course Administration

Instructor: Ms. Saly Abbas

Office: AUBMC, SB-23 (ext. 5045)

Office hours: by appointment

Email: sa196@aub.edu.lb

Class Time and Venue

Day and Time: Section 1: Tuesday: 08:00 – 9:59 and Thursday: 10:00 – 11:00

Section 2: Thursday: 08:00 – 11:00

Location: MIS Lab – AUBMC - Phase I – Floor: Sub-basement

Course Description

The MIMG206 Lab is designed to develop pre-clinical competencies and skills in routine radiographic positioning procedures. It emphasizes on the volunteer's (representing the patient's role) positioning and protection, technique selection, and x-ray equipment manipulation. This course uses a "hands on approach" to train students to become accomplished radiographers through the application of the radiographic positioning principles taught in class in a laboratory setting.

Training and exposures will be performed on Pixy Whole-Body Phantom.

Course Learning Objectives

By the end of the course, students will be able to:

LO1. Manipulate the x-ray equipment as required.

LO2. Demonstrate a thorough understanding of patient care considerations pertaining to all radiographic procedures.

LO3. Define and apply the positioning techniques for radiographic procedures of different anatomical structures, pathological and physical conditions.

LO4. Correctly position patients for each radiographic examination.

LO5. Identify major anatomical structures and positioning landmarks of the part being radiographed.

LO6. Evaluate patients' positioning, centering, as well as the appropriate anatomy, overall image quality and presence of artifacts.

Credits Allocated: 2

Corequisites: MIMG 206



Course Outline

Please note this is a tentative schedule. Any changes may be made at the instructor's discretion.

Session's Date	Topic	Course Activities	Course Objectives
18 - 26 Jan	Orientation to Lab Explanation of the course syllabus and guideline regulations	Reading Course syllabus Reading lab rules and regulations guidelines on Moodle	LO-1
29 Jan – 02 Feb	Manipulation of X-Ray Equipment Revision of anatomic relationship terms and radiographic positioning terminology		
05 – 09 Feb	Upper Extremity Radiography	PowerPoint Presentations And PDF files posted on Moodle	LOs-1-6
12 – 16 Feb			
19 – 23 Feb			
26 Feb – 01 Mar	Lower Extremity Radiography		
04 – 08 Mar			
11 – 15 Mar	Spine Radiography		
18 – 22 Mar	Lab Practice Exam 1: Upper and Lower Extremities Radiography (within the lab sessions duration of March 19 and 21, 2024)		
25 - 29 Mar	Spine Radiography		
01 – 05 Apr	Abdomen Radiography		
08 – 12 April	Abdomen and Bony Thorax		
15 – 19 Apr	Bony Thorax and Thoracic Viscera Radiography		
22 – 26 Apr	Bony Thorax and Thoracic Viscera Radiography		
09 May 2024	Lab Practice Exam 2: includes all the course material (Upper Extremity, Lower Extremity, Spine, Abdomen, and Thorax Radiography)		

**Holidays: Id Al-Fitr: Thursday April 11, 2024
 Compensatory session will be scheduled on Tuesday April 09, 2024 and Monday April 15, 2024*

Student Assessment

Assessment	LOs	Percent
1. Attendance	1- 6	5%
2. In class activities	1- 6	10%
3. Lab Practice Exam 1: Upper and Lower Extremities Radiography (March 19 and 21, 2024 within the lab sessions duration)	1-6	35%
4. Lab Practice Exam 2: Upper Extremity, Lower Extremity, Spine, Abdomen, and Thorax Radiography (May 09,2024, at 9:00 a.m.)	1-6	50%

Course Resources

Notes: All reading materials, PowerPoint presentations and PDF files posted on Moodle.

Books: The below Books will be uploaded on Moodle.

- Bontrager, Lampignano, John P., and Kendrick, Leslie E. (2018). *Textbook of Radiographic Positioning and Related Anatomy*. Ninth Edition. St. Louis, Missouri, Elsevier.
- Long, Bruce W., Rollins Jeannean Hall, and Smith Barbara J. (2016). *Merrill's Atlas of: Radiographic Positioning and Procedures (Volumes 1, 2, and 3)*. Thirteenth Edition. St. Louis, Missouri, Elsevier Mosby.
- Martensen, Kathy M. (2015). *Radiographic Image Analysis E-book*. Fourth Edition. St. Louis, Missouri, Elsevier Saunders.



Course Policies and General Notes

1. Attendance:

Attendance is mandatory and will be taken in each lecture/lab session. You are expected to attend all lab sessions and participate in lab activities scheduled sessions. If you cannot attend the lab, you should notify the instructor beforehand. If you miss a lab session, it is your responsibility to make up for the material missed and inquire about any announcements made. As per AUB General Regulations, students who miss more than one-fifth of the sessions of any course in the first ten weeks of the semester (five weeks in the case of the summer term) are dropped from the course. Students arriving late to the lab (>10 minutes) will be considered absent.

2. Academic integrity:

Education is demanding, and time management is essential. Do not hesitate to use the resources around you but do not cut corners. Cheating and plagiarism will not be tolerated. Please review the Student Code of Conduct in your handbook available on the following web page:

<https://www.aub.edu.lb/sao/Documents/Student%20Handbook%202016-2017.pdf> and familiarize yourself with definitions and penalties (p. 33).

If you're in doubt about what constitutes plagiarism, ask your course instructor(s) because it is your responsibility to know. The American University of Beirut has a strict anti-cheating and anti-plagiarism policy. Penalties include failing marks on the assignment in question, suspension or expulsion from university and a permanent mention of the disciplinary action in the student's records.

3. Lab Rules and Regulations:

Students should refer to the MIMG206L Laboratory guidelines available on Moodle (via the MIMG206L Moodle site).

4. Missed Exams:

All lab practicum exams must be completed within the time period specified; zero points will be given for an exam if the student does not adhere to the time guidelines. The only delays for the exam that will be considered by the course instructor are for documented illness, death in the family, and personal/family emergency.

5. Students with Disabilities:

AUB strives to make learning experiences accessible for all. If you anticipate or experience academic barriers due to a disability (such as ADHD, learning difficulties, mental health conditions, chronic or temporary medical conditions), please do not hesitate to inform the Accessible Education Office. In order to ensure that you receive the support you need and to facilitate a smooth accommodations process, you must register with the Accessible Education Office (AEO) as soon as possible: accessibility@aub.edu.lb; +961-1-350000, x3246; West Hall, 314.

6. Non-Discrimination- Title IX- AUB

AUB is committed to facilitating a campus free of all forms of discrimination including sex/gender-based harassment prohibited by Title IX. The University's non-discrimination policy applies to, and protects, all students, faculty, and staff. If you think you have experienced discrimination or harassment, including sexual misconduct, we encourage you to tell someone promptly. If you speak to a faculty or staff member about an issue such as harassment, sexual violence, or discrimination, the information will be kept as private as possible, however, faculty and designated staff are required to bring it to the attention of the University's Title IX Coordinator. Faculty can refer you to fully confidential resources, and you can find information and contacts at www.aub.edu.lb/titleix. **To report an incident**, contact the University's Title IX Coordinator Mitra Taouk at 01-350000 ext. 2514, or titleix@aub.edu.lb. An anonymous report may be submitted online via Ethics Point at www.aub.ethicspoint.com.