



<b>Fall Semester</b> <b>AY 2023 – 2024</b>	American University of Beirut	
	Faculty of Health Sciences – Division of Health Professions	
	<b>Medical Imaging Sciences Program</b>	
	Course number	<b>MIMG 201</b>
	Course name	<b><i>Introduction to Medical Imaging</i></b>

**Course Administration**

Instructor: Dr. Salem Hannoun (Assistant Professor)  
Office: 3rd Floor, Van Dyck Hall, Room 329.  
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Office hours: by appointment  
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**Class Time and Venue**

Day and Time: Tuesday and Thursday 10:00 am – 10:50 am  
Location: Van Dyck Hall Maroun Boustany Auditorium

**Course Description**

The MIMG201 course is designed to provide an overview of the field of radiologic technology and its role in health care delivery. Students are oriented to academic and administrative structure, and the profession. Basic principles of radiation protection are introduced. The ethical and legal responsibilities of the profession are discussed.

**Course Learning Outcomes**

At the end of this course the student will be able to:

1. Demonstrate knowledge in basic word structure.
2. To describe the events surrounding the discovery of x-rays
3. To explain the use of x-radiation in medicine.
4. To state the characteristics of electromagnetic radiation.
5. To list the properties of x-rays.
6. To consider the factors which influence on the quantity and/or quality of the x-ray beam.
7. To develop a basic knowledge about the role and function of different imaging modalities.
8. To understand the basic concepts of radiation protection
9. Identify body planes, anatomic relationship and radiographic positioning terminologies and apply this to describe patient positioning techniques.
10. To be oriented to academic and administrative structure, key departments, and personnel, and to the profession as a whole.
11. To have an overview of imaging sciences and its role in health care delivery.
12. To understand the ethical and legal responsibilities relative to the health care delivery.

**Credits Allocated: 2**



## Course Outline

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

# Sessions	Topic	Course Activities	Course Objectives
1	Introduction to Medical terminology	Power-point presentations posted on Moodle	1
4	Introduction to Radiographic imaging physics		2-6
2	Introduction to Radiographic equipment		7
3	Introduction to Basic radiation protection and radiobiology		8
2	Introduction to Sectional anatomy		9
2	Introduction Radiographic positioning		9
1	Introduction to Health care		10
3	Introduction to Patient care		11
2	Introduction to the Radiographic technologist profession		12
2	Introduction to Radiological Ethical and legal issues		12

## Student Assessment

Assessment	Objectives	Exam Date	Percent
Attendance/Participation	-	-	5 %
Quiz 1	1 – 7	Sep 27, 2022	40 %
Quiz 2	8 – 9	Oct 25, 2022	35 %
Quiz 3	10 – 12	Dec 01, 2022	20 %

## Course Resources

- Cohen B.J. & Taylor J.J (2016). Memmler's Structure and Function of the Human Body. 11th Ed. Lippincott Williams & Wilkins
- Davies, J. J. (2015). Illustrated Guide to Medical Terminology. 2nd Ed. Cengage Learning
- Oppelt A. (2005). Imaging Systems for Medical Diagnostics. Publicis Corporate Publishing
- Seeram, E. (2019). Digital Radiography. An Introduction. Delmar
- Townsley, D.M. and Young Th.A. (2007). Ethical & Legal Issues for Imaging Professionals. Mosby Elsevier.

## Course Policies and General Notes

### 1. Attendance:

- Students are expected to attend all classes and attendance will be taken in each lecture. A student is responsible for the work that is done and for any announcements made during student absence.
- Students who, during a term, miss more than one-fifth of the sessions of any course in the first twelve weeks of the term (six weeks in the case of the summer term) can be dropped from the course. A faculty member who drops a student from the course for this reason must have stated in the syllabus that attendance will be taken.
- Students who withdraw or are dropped for excessive absence from a course receive a grade of "W". Students who do not withdraw or cannot be dropped for excessive absence from a course will receive a grade of 40 (F).

### 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.



By signing up for this course, you confirm that you have read and accepted the terms and provisions of "AUB's Privacy Statement".

### **3. Examinations:**

All written exams must be completed within the time period specified. Students who miss a scheduled examination or quiz must present an excuse considered valid by the instructor of the course. The only delays for the exam that will be considered by the course instructor(s) are for documented illness, death in the family, and personal/family emergency. Unless stated otherwise in the course syllabus, the course instructor should then require the student to take a make-up examination.

Only medical reports issued by an AUB Medical Center (AUBMC) doctor, or by the University Health Services will be accepted. Should there be a question about the validity of any excuse presented by the student, the matter should be referred to the appropriate faculty committee. Instructors should make sure there is no time conflict between an exam and a regularly scheduled course.

### **4. 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](mailto:accessibility@aub.edu.lb); [+961-1-350000](tel:+9611350000), x3246; West Hall, 314.

### **5. 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](http://www.aub.edu.lb/titleix). **To report an incident**, contact the University's Title IX Coordinator Mitra Taub at 01-350000 ext. 2514, or [titleix@aub.edu.lb](mailto:titleix@aub.edu.lb). An anonymous report may be submitted online via Ethics Point at [www.aub.ethicspoint.com](http://www.aub.ethicspoint.com).