

Department of Medical Imaging Sciences
Faculty of Health Sciences
American University of Beirut

Course number: DGRG 240
Course name: Clinical Practicum III
Spring Term AY 2019 - 2020

Course Educator

Name: Miss Saly Abbas (Educator I)
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Office hours: by appointments

Class Time and Location

Location: AUBMC - Phase I - Basement floor - Diagnostic Radiology Department

Section 1: Tuesday 8:00 am – 12:30 pm

And Thursday 7:30 am – 11:00 am

Section 2: Tuesday 12:00 pm – 4:30 pm

And Wednesday 7:30 am – 11:00 am

Section 3: Tuesday 8:00 am – 9:30 am and 10:30 am – 2:00 pm

And Wednesday 8:00 am – 11:00 am

Course Description

Clinical training in:

- General Radiography
- Mobile Radiography
- Emergency Radiography
- General Fluoroscopy
- Digital Subtraction Angiography
- Cardiac Cath
- Computed Tomography
- Magnetic Resonance Imaging
- Ultrasound
- Nuclear Medicine
- Positron Emission Tomography

Note:

The above clinical rotations will take place in the Diagnostic Radiology Department

Course Learning Objectives

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

1. Know clinical patient care and skills before, during, and after the procedure
2. Understand medical terminologies and abbreviations on patient request
3. Correlate clinical history to the requested examination
4. Recognize how to apply proper radiation protection
5. Identify how to manipulate and identify the function of the radiographic equipment
6. Know how to determine the correct radiographic technique i.e. positioning and projections in order to produce images of diagnostic quality (when applicable)
7. Assure if the purpose of the procedure has been achieved properly
8. Comprehend how to employ critical thinking and problem solving skills

Required Readings

- All posted materials in the Clinical Practicum course – DGRG 240 on Moodle
- MIMG 203 “ Medical Imaging Equipment I “course notes

Course Requirements and Student Evaluations

Students will be evaluated on the following:

	Assessment	Percent	Linked to objectives
A.	Senior radiographer assessments in General , Mobile, and Emergency Radiography	15 %	Course learning objectives: 1,2,3,4,5,6,7, and 8.
C.	Senior radiographer assessment in General Fluoroscopy	5 %	
D.	Senior radiographer assessment in Digital Subtraction Angiography	5 %	
E.	Senior radiographer assessment in Cardiac Cath	5 %	
F.	Educator I overall evaluation in General Radiography	10 %	
G.	Nuclear Medicine assignment	5 %	
H.	Computed Tomography, Ultrasound, Magnetic Resonance Imaging, and Positron Emission Tomography assignments	25 %	
I.	Case Studies	30 %	

Note: The passing grade for the course is 70/100

Credits Allocated

2

Prerequisites

DGRG 230

General Education Course Objectives and Goals

Goal 1: Student will be clinically competent

Objective 1: Student will demonstrate accurate positioning skills

Objective 2: Student will select appropriate technical factors

Goal 2: Student will establish communication skills

Objective 1: Student will demonstrate effective oral communication skills

Objective 2: Student will demonstrate effective written communication skills

Goal 3: Student will employ critical thinking and problem solving skills

Objective 1: Student will perform non – routine procedures

Objective 2: Student will evaluate procedures holistically

Goal 4: Student will demonstrate professionalism

Objective 1: Student will practice professional behavior

Objective 2: Student will understand the importance of professional development

AUB/ FHS Course Policies

✓ *Attendance*

- The clinical hours are assigned by the Educator I
- The student shall not depart from the assigned clinical rotation without the approval of the Educator I
- To pass the course, students are requested to complete the total hours of the clinical practice required by the course
- Upon reporting to the clinical practice , the student should document his / her attendance with the Educator I
- The student is expected to attend all the sessions. If he/she misses a clinical session, it is his/her responsibility to make up for the missed hours with the Educator I
- Missing clinical hours for excused reasons e.g. sickness, shall be accompanied by evidence e.g. physicians report
- Every unexcused absence from the clinical practice will lead to a 5% deduction on the average of the course
- The Educator I shall drop the student from the course after three unexcused absences from clinical training
- The student shall report to the clinical setting ten minutes prior to the scheduled time

- If a student will be late or has an excuse for not attending the clinical practice, he / she shall email the Educator I at the beginning of the scheduled shift
- A student who misses more than 30 minutes of their scheduled clinical training will be counted absent for the entire clinical day (unexcused absence)
- Any accident or incident involving a patient in the radiographic room / division must be reported immediately to the Educator I
- Any incident or issue involving clinical staff at the radiology department must be immediately reported to your Educator I
- Students shall seek help for any issue pertaining to radiographers in the radiology from your Educator I in that particular course

✓ *Uniforms:*

- Professional and ethical conduct shall be applied according to AUMBC dress code policy
- The students shall report to the Diagnostic Radiology Department only in MIS uniforms
- Students who wear head veils only white / off white are accepted
- For colder weather, a white long sleeve shirt worn under the uniform scrub top is permitted. Undershirt may not be visible by hanging lower than the scrub top

✓ *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 instructor 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.

✓ *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'.

✓ *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 Trudi Hodges 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.

✓ *DGRG 240 Clinical Code of Conduct*

- Electronic device policy
 - Students shall not carry their mobile phones during clinical training
 - In case of an emergency, the MIS program extensions should be given out to those who might need to contact the student while in clinical
 - Non – abidance by the above will lead to disciplinary action
- Personnel monitoring
 - Students will be assigned a personal radiation monitor, which must be worn while during clinical training or lab activity
 - In case of losing the personnel monitor a fee of \$14 shall be paid by AUB policy
- Immobilizing a patient during a procedure
 - Under no conditions shall a student immobilize a patient during an exposure

Detailed Course Outline

Week's numbers	Date	Holiday	Assignment/Assessment
1	January 22-January 24		<ul style="list-style-type: none"> ○ Modalities: <ul style="list-style-type: none"> a) An assignment shall be submitted by the end of the each modality rotation. b) A cyclotron orientation will take place in its unit prior to the students' rotation in the positron emission tomography modality. ○ Nuclear Medicine: <p>An assignment shall be submitted by the end of the nuclear medicine rotation.</p> ○ General Fluoroscopy, Digital Subtraction Angiography, and Cardiac Cath: <p>The senior radiographer will assess the student by the end of the above rotations.</p> ○ General Radiography: <ul style="list-style-type: none"> a) The senior radiographer will assess the student by the end of each rotation: general, mobile, and emergency radiography.
2	January 27-January 31		
3	February 03- February 07		
4	February 10- February 14		
5	February 17- February 21		
6	February 24- February 28		
7	March 02- March 06		
8	March 09- March 13		
9	March 16- March 20		
10	March 23- March 27	Annunciation Day	
11	March 30- April 03		
12	April 06- April 10	Latin Easter- Good Friday	
13	April 13- April 17	Easter Monday Good Friday	
14	April 20- April 24	Easter Monday	
15	April 27- May 01	Labor Day	

			<ul style="list-style-type: none"> b) The Educator I will evaluate the student by the end of the general radiography. o Case Studies: <ul style="list-style-type: none"> a) Two case studies shall be submitted and presented as per the specified dates. b) One by the end of the second week of the general radiography and the second by the end of mobile / emergency radiography rotation. c) The expected information to be included in the above case studies is found in Appendix 11.
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Objectives to be accomplished	Reading / Revising
<ul style="list-style-type: none"> o Patient care o Exam preparation o Equipment manipulation o Positioning skills o Post procedure process o Image Assessment 	<ul style="list-style-type: none"> o All posted materials in the Clinical Practicum course – DGRG 240 on Moodle o MIMG 203 “ Medical Imaging Equipment I “course notes o Long, Bruce W., Rollins Jeannean Hall, Smith Barbara J. (2012) – “Merrill’s atlas of : Radiographic Positioning and Procedures” – thirteenth edition – Volumes 1,2, and 3, Elsevier Saunders o Hashemi Ray H., Bradley William G., Lisanti Christopher J. (2010) – “MRI The Basics” – third edition, Lippincott Williams and Wilkins LWW

Bibliography / References for readings

- All posted materials in the Clinical Practicum course – DGRG 240 on Moodle
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