



مركز الاعتماد  
وَضْمَانِ الجُودَةِ  
ACCREDITATION & QUALITY ASSURANCE CENTER



**The University of Jordan**

**Accreditation & Quality Assurance Center**

**Course Syllabus**

**General Surgery -2**

1	Course title	General Surgery 2
2	Course number	0507603
3	Credit hours (theory, practical)	9
	Contact hours (theory, practical)	8 am to 4 pm (sun-thurs)
4	Prerequisites/corequisites	Completed Basic medical Science program successfully
5	Program title	Doctor of Medicine MD
6	Program code	0507601
7	Awarding institution	University of Jordan
8	Faculty	Faculty of Medicine
9	Department	General Surgery
10	Level of course	bachelor
11	Year of study and semester (s)	First or Second Semester 6 <sup>th</sup> year
12	Final Qualification	MD degree
13	Other department (s) involved in teaching the course	None
14	Language of Instruction	English
15	Date of production/revision	January 2017

### 16. Course Coordinator:

Office numbers, office hours, phone numbers, and email addresses should be listed.

M S El Muhtaseb , Department of Surgery , Faculty if Medicine , University of Jordan . [surgery@ju.edu.jo](mailto:surgery@ju.edu.jo)

### 17. Other instructors:

*Office numbers, office hours, phone numbers, and email addresses should be listed.*

N Bsoul ,

A Bani Hani	M.Abu khalaf	O hamed
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S Jabaiti	S Daradkeh	A Mismar
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F. Obiedat	B Salah	R Addasi
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M. Abu Abeeleh	J Masad	H Almomani
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M.Omari	M. Qudah	M Smadi
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A Malkawi
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*Department of Surgery, Faculty of Medicine . University of Jordan e mail: [surgery@ju.edu.jo](mailto:surgery@ju.edu.jo)*



**Aim:** The aim of the course is to strengthen the basic general surgical skills and knowledge the student gained at the 4<sup>th</sup> year level and improve their skills in history taking and physical examination and expose them to the principles of management and treatment of general surgical patients including elective and emergency settings.

## **Rotation**

### **General objectives**

- This course is designed to provide students with basic and clinical knowledge and skills necessary to deal with common surgical problem.
- Helping students become clinically oriented in approaching surgical emergencies safely and effectively.
- Building Trust in students to deal with surgical patients in a professional manner.

### **Specific objectives**

- **Cardiovascular and Thoracic Surgery**

This is a two-week rotation applied through the 6<sup>th</sup> medical year concerning about Cardiovascular and Thoracic Surgery .Students work with house staff and faculty with responsibilities for working up patients, assisting in operations, and postoperative care in the ICU and on the wards. The Student should also be able to suggest decisions regarding patient management and adopt favorable attitudes.

1. Present complete and accurate patient information in a case presentation format, including appropriate components and sequence
2. Have management capabilities to manage personnel and budgets to make health care cost-effective.
3. Help in Managing situations calling for emergency interventions in cardiovascular and thoracic surgery (e.g. Pneumothorax and other chest traumas) and also routine problems.

- **Pediatric Surgery**

This rotation is only for 6<sup>th</sup> year medical students (not attended by 4<sup>th</sup> medical students) and exposes the students to general and specialty based Pediatric surgery. During this rotation students learn many concepts and diseases of Pediatric surgery.

1. To provide excellence in students teaching.
2. To direct and guide our students to focus on the primary importance of patient care.
3. To teach the students to become proficient in clinical history taking and physical examination.
4. To instruct the students to formulate a differential diagnosis for common clinical presentations.
5. To educate the students about the management of common surgical diseases in Pediatric surgery department.
6. Students should attend OR and see common pediatric surgeries
7. Attend afternoon clinics
8. Students participate in patient management

- **Oncology Surgery**

This is a two weeks rotation applied through the 6<sup>th</sup> medical year. The student will gain a better understanding of the care of a cancer patient, including anti-neoplastic drugs, toxicity management, supportive care, and the administrative functions of an oncology pharmacist.

1. The ability to communicate with patients and their families, explaining recommendations to them in terms each individual can comprehend.
2. Perform a focused physical exam concentrating on the relevant areas.
3. Arrive at an appropriate differential diagnosis.
4. Present complete and accurate patient information in a case presentation format, including appropriate components and sequence.
5. The ability and willingness to work in a cooperative manner with other healthcare personnel, being sensitive to their roles and abilities, and to be able to give and receive advice in a manner that is consistent with the harmonious operation of a health care team
6. Understand the management of the cancer patient throughout the entire in-hospital course by being an active and valuable member of our team.

- **Plastic Surgery**

The 2 weeks plastic surgery rotation is an intense clinical experience that introduces students to the basic principles of plastic surgery. Students rotate on the Surgical Teams at Jordan university hospital where they attend from 8am to 5pm 5 days a week. Time is spent on the wards, in outpatient clinics, and in the operating room.

1. Be more confident with history and physical exam.
2. Be responsible for the follow up of assigned patients (Formulate a case summary and differential diagnosis).
3. Suggest management plans for assigned patients (Suggest relevant investigations. suggest treatment).
4. Be more confident with fluid management of burn patient (formulas to calculate the amount, type of fluid, how to give).
5. Be more comfortable with dealing with patients in clinics.
6. more surgical technique orientation
7. Participate in the teaching process by leading seminars supervised by faculty members

- **Gastrointestinal Surgery**

This is rotation of GI surgery for 6th year medical student that expose the students to general and specialty based GI surgery. During this rotation students learn many concept of common GI disease

1. To provide excellence in students teaching.
2. To direct and guide our students to focus on the prime importance of patient care.
3. To teach the students to become proficient in clinical history taking and physical examination.
4. To instruct the student to formulate a differential diagnosis for common clinical presentations.
5. To inform the students the indications for and interpretation of basic laboratory, radiological and other investigations.
6. To educate the students about the management of common surgical disease
7. students should attend OR and see common surgeries
8. attend afternoon clinics
9. students participate in patient management
10. student had nightshift during rotation that expose to GI surgical condition

- **Endocrine and Head and Neck Surgeries**

The 2-week endocrine and head & neck surgery rotation for 6th year medical students is a clinical experience that integrates students as members of the patient-care team, **participating in pre- and post-operative** evaluation and management, and visiting the operating theaters to observe surgical procedures, and sometimes scrubbing in for assistance.

1. Attending and helping in the endocrine surgery clinic along with the residents.
2. Being responsible for the follow up of assigned patients
3. Participating in the teaching process by leading seminars supervised by faculty members.
4. Demonstrate personal attributes of respect, compassion, honesty, dedication, motivation, perseverance, dependability, tolerance and adaptability with pt., their families and those with whom they work.

### Intended Learning Outcomes (ILOs)

Upon completion of the course, students shall demonstrate the ability to:

- Perform a focused history and physical on patients with varied surgical diagnoses in the inpatient and outpatient setting.
- Be able to review a chart, and present an accurate history and physical to an attending or resident.
- Identify preoperative issues in patients who are candidates for surgery.
- Write accurate clinic and ward notes or history and physicals on patients.
- Be observed by resident or faculty in the evaluation of at least one patient.
- Witness and participate in the process of informed consent for a surgical procedure.
- Evaluate a new patient and independently construct a differential of surgical diagnoses.
- Interpret diagnostic imaging independently and review the films with a radiologist.
- Essential skills:
  - Tie a two-handed knot
  - Removes sutures and staples
  - Sterile technique and operating room protocol knowledge. View and scrub in multiple operations each week.
  - Recognize proper and improper healing and signs of wound infection.

- Participate in care of an open wound.
- Recognize infections which require surgery.
- Understand the workup of postoperative fever.
- Write admission orders
- Urethral catheterization
- Aid with wound closure in OR.
- Recommended skills:
  - Nasogastric tube insertion
  - Wound drain removal
  - Peripheral venous catheterization
  - Blood sampling, arterial and venous

## 20. Topic Outline and Schedule:

	3.	4.	5.	6.	7.
<b>6th year Seminars</b>					
<b>2015/2016</b>					
<b>12:30 - 1:30p.m 1- O.P.D seminar room</b>					
Week	Subject				Lecturer
1	Lower Limb Ischemia				Dr.A.Alqudah
1	Management of Diabetic foot				prof.N.Younes
1	Hemoperitoneum				Prof.M.Abu khalaf
1	Breast cancer				Prof. Jamal Masad
1	Vascular access and arteriovenous fistula				Dr. Amir Malkawi
2	Surgical management of Obesity				Dr. F. Obiedat
2	Approach to thyroid disease				Prof. A.Sroujeh
2	Mamaplasty				Dr. Bareqa Salah
2	liver Tumour				Dr. Osama hamed
2	Nutrition & support of surg. Pt				Prof.M.Abu khalaf
3	Arterial aneurysm				Dr.A.Alqudah
3	Colorectal cancer				Dr.Rami Addasi
3	staging of tumours				Dr. M. Almuhtaseb
3	I.V Fluids				Dr.Amjad Bani Hani
3	Shock				Dr. Sameer Jabaiti
4	Gallstones: complications and management				prof. salam Daradkeh
4	Minimally invasive surgery				prof. Orhan Alimoglu
4	Parathyroid gland				Dr. Ayman Mismar
4	Skin Cancer				Dr. Bareqa Salah
4	Minimally invasive cardiac surgery				Dr.Amjad Bani Hani
5	pancreatic disease				prof. salam Daradkeh
5	Oesophageal Disease				Dr. M. Almuhtaseb
5	Gastric outlet obstruction				Prof.M.Abu khalaf
5	Management of multiple trauma				Dr.Rami Addasi
5	cervical lymphadenopathy				Dr.Nader al bsoul
6	Principles of extra corporeal circulation				Dr. M. Abu Abeleh

6	Intestinal Ischemia	Dr. F. Obiedat ✓
6	Volvulus	Prof.M.Abu khalaf
6	Surgical jaundice	Dr. Osama hamed
6	head & neck exam	Dr.Nader al bsoul
7	soft tissue tumour	Prof. Jamal Masad
7	Nutrition and intestinal obstruction	Dr.Hashm Almomani
7	inguinoscrotal conditions	Prof.M.Omari
7	Splenectomy: Indications, Outcome, and complications	Dr. M. Qudah
7	Chest injuries	Dr. M. Abu Abeeleh
8	ATLS	Dr. Sameer Jabaiti
8	Adrenal gland	prof.N.Younes
8	Endo vascular intervention	Dr. Amir Malkawi
8	liver + spleen Injuries	Dr. M. Qudah
8	Post-operative care of the cardiac surgery patient	Dr. M. Alsmady
8.		
9.		

## 21. Teaching Methods and Assignments:

Development of ILOs is promoted through the following teaching and learning methods:

Tutorials and seminars  
 Bed side teaching in the ward rounds and clinic  
 Skills laboratory

The Chief/senior resident of each service/team will be responsible for assigning 1-2 patients to each student on the service. Patients will be assigned daily for the subsequent day. Students are expected to pre-round on the assigned patients and be prepared to present those patients assigned during morning rounds.

## 22. Evaluation Methods and Course Requirements:

Opportunities to demonstrate achievement of the ILOs are provided through the following assessment methods and requirements:

Student final evaluation will include:

1. Performance on the clinical examination given at the end of the clerkship.
2. Performance on the written examination given at the end of the year
3. Overall participation in all surgical lectures, surgical rounds, conferences and seminars.

The breakdown of the % for each component in the grading of surgical students will be as follows:

Evaluations 20% of grade  
 Clinical Examination 40% of grade  
 Written Examination 40% of grade

**EVALUATIONS**

All students will be required to have a minimum of 6 evaluations



completed, one from each service/team that the student rotates. Each evaluation will be completed as a team evaluation among faculty members.

#### CLINICAL EXAMINATION

The clinical examination will consist 10 stations of OSCE Examination that cover the major clinicians of General Surgical topics held at the end of the year.

#### WRITTEN EXAMINATION

The written examination is a MCQs, is given on the end of the year the examination will be allowed 2 hours for completion.

#### X. Major Evaluation Dates

Rotation Evaluation Variable according to student's rotation

End of year Final written Exam May each year

End of Year Final clinical Exam May to June each year

### 23. Course Policies:

A- Attendance policies: As per university Regulations: Absence should not exceed 15% of rotation days.

B- Absences from exams and handing in assignments on time: As per university Regulations: only legal excuses accepted after review by faculty administration.

C- Health and safety procedures: As per hospital policies and requirements: immunizations, scrubs, etc

D- Honesty policy regarding cheating, plagiarism, misbehavior: Those captured will be withdrawn from exam and referred to faculty's relevant disciplinary committee.

E- Grading policy: letter system as per university regulations.

F- Available university services that support achievement in the course: Lecture halls with audiovisual facilities, Skills Lab/ Library/ related hospital facilities.

### 24. Required equipment:

1. Skills lab manikins and equipment
2. Full Operating theatre scrubs
3. Operating theatre clog/ Overshoes.

**25. References:**

Required book (s), assigned reading and audio-visuals:

Suggested Textbook(s) and Readings

- L.W. Way. Current Surgical Diagnosis and Treatment. Lange.
- D.C. Sabiston. Essentials of Surgery. Saunders.
- P.F. Lawrence. Essentials of General Surgery. Williams & Wilkins
- B.E. Jarrell, R.A. Carabasi. Surgery. NMS-Williams & Wilkins
- H.C. Polk, B. Gardner, H.H. Stone. Basic Surgery. QMP
- S.I. Schwartz, G.T. Shires, F.C. Spencer. Principles of Surgery.
- W.M. Rambo. Student's Textbook of Surgery. Blackwell Science

**26. Additional information:**

Name of Course Coordinator: --M S El Muhtaseb--Signature: ----- Date: ---29/1/2017-----

Head of curriculum committee/Department: -Prof. N Bsoul----- Signature: -----

Head of Department: ---Prof N Bsoul----- Signature: -----

Head of curriculum committee/Faculty: ----- Signature: -----

Dean: ----- -Signature: -----

Copy to:  
Head of Department  
Assistant Dean for Quality Assurance  
Course File