The Hashemite University

Course information

Course title Clinical Anesthesia & Emergency Medicine

Course number : 161500401

Credit hours: 4

Course date: It is a four weeks course, tow week for Clinical Anesthesia and tow week for Emergency Medicine that is repeated regularly in the 1st and 2nd semesters of the 4th academic year

First semester from 21/9/2025 to 9/1/2026

Second semester from 25/1/2026 to 20/5/2026

Course meeting time: Daily (from Sunday to Wednesday) from 8:00 am to 3:30 pm

Course location: Department of Anesthesiology & The Emergency Department in Prince Hamza hospital and Zarqa governmental hospital

Pre-requested course: Student should pass the preclinical period (the 3 years basic medical sciences period) successfully with an average above 2.0 points

Instructor: coordinated by Dr. Rami Alqassieh,

phone no. 0795080217

E-mail: rami_qaisieh@yahoo.com

Course description: (schedule provided later)

This curriculum is designed as an orientation for Fourth year medical students Generally it is a four weeks duration, and is intended to provide a basic, broad introduction to the practice of Clinical Anesthesia & Emergency Medicine.

Learning outcomes

By the end of this course, students are expected to:

1. To become aware of anesthetic considerations in the preoperative evaluation and preparation of the patient.

1) Taking and recording a pertinent history.

2) Performing an appropriate physical examination, including assessment of the airway.

3) Reviewing relevant laboratory data.

4) Assigning appropriate ASA (American Society of Anesthesiologists) physical status Class.

5) Prescribing appropriate premedication.

2. To become familiar with the practical Conduct of anesthesia and planning

1) Premedication

2) Monitoring

3) Induction

4) Maintenance

5) Emergence

6) Post-Anesthesia Care Unit (PACU) management

3. To learn appropriate airway and ventilator management.

1) Describing and identifying basic oropharyngeal and laryngotracheal anatomy.

2) Describing the indications, benefits and risks of airway management by Facemask,

3) Laryngeal Mask Airway (LMA) and endotracheal intubation.

4) Identifying and stating appropriate sizes of masks, oral and nasal airways,

LMA, laryngoscope blades and endotracheal tubes.

Identifying and overcoming upper airway obstruction with mask ventilation using

various masks, oral and nasal airways, jaw thrust and or chin lift maneuvers.

5) Successfully preparing appropriate equipment, positioning, LMA insertion

And intubating several patients with supervisor intervention.

6) Correctly identifying within 30 seconds those patients in whom endotracheal intubation

was not successful.

7) Prescribing appropriate parameters for mechanical ventilation and the various methods of monitoring the adequacy of ventilation.

8) Describing and identifying criteria for extubation.

4. To learn Anesthetic pharmacology appropriate to general medicine including:

1) Inhalational Anesthetics.

2) Intravenous Anesthetics

3) Neuromuscular blocking agents, cholinesterase inhibitors and anticholinergic drugs.

4) Narcotics agonists and antagonists.

5. To learn the principles of Regional Anesthesia including:

1) Benefits

2) Types (Central, peripheral)

3) Local Anesthetics pharmacology and toxicity.

4) anatomy

5) Contraindications

6) Complications

7) Procedures technique (Spinal and Epidural).

8) Differences between spinal and epidural anesthetic.

Instructional methods:

Seminars: Problem based topic discussion, integration of knowledge & clinical approach

- Lectures: presented using data show, slides.

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- Bed-side teaching sessions: Clinical case discussion and skills development.

- Visits to operating theatres.

Text book and material:

Anesthesia for medical students, Sullivan Pat.

Lecture Notes Clinical Anesthesia, Carl L. Gwinnett

NMS Emergency Medicine Scott S.

E.M Lathe, Stead

Grading Policy:

In-course evaluation = 20%

Final clinical exam = 35%

Final written exam = 45%

(Total Points 100%)

Methods of Evaluation:

In-course evaluation based on attendance, participation, preparation, medical cases presentation and knowledge of the student, logbook ,mark out of 100. Score then get converted to be out of 20

- End of course clinical examination which is held at the end of the 4 weeks clinical rotation. The exam is in multiple choice questions (MCQs) format, total of 35 questions, score is out of 35

Final written examination, held at the end of the academic year. The exam is in multiple choice questions (MCQs) format, total of 45 questions, score is out of 45 and converted later to be out of 45.

Course Policies:

Late Assignments: Students are expected to present their assignment on scheduled time, if not, a new date is given to the student to present his assignment. Late assignment will affect the grade by 5 points unless there is an excuse.

 Missed exams: If a student misses an examination then they will have the opportunity

for a make-up examination, according to the University Regulations.

Absence: If a student is absent for a teaching session then they must discuss this with the course instructor. If a student is absent for more than 25% of the course then they may be liable to fail the course.

Cheating: Cheating is forbidden in any form. Any students who are caught cheating will be reported to the Medical Dean and further action taken as necessary.

Classroom Protocol:

Students are expected to arrive at 8:00 am Sunday to Wednesday and at 9:00 am on Thursdays.

Attendance is each daily activity, absence in one activity considered as full day absence.

Students are expected to respect other students and instructors.

Participation is graded according to seminar presentation, attending daily activities, good behavior, patient care, theoretical knowledge, communication skills, and professionalism

Important Dates to Remember:

21/9/2025 Beginning of 1st semester of Academic year 2025 / 2026

First Wednesday of the 4th week rotation, end of rotation clinical exam

25/1/2026 Beginning of 2nd semester of Academic year 2025 / 2026

Final written exam 6/2026

Student rights and responsibilities:

As per University policy and regulations

All students' rights presented by the university will be respected during General Surgery course

Course Schedule :

Seminar Anesthesia week:

day	8-8:30	8:30-11:30	11:30-12	12-3:30
Sunday	Morning report	**anatomy of the airway and anesthesia apparatus**	break	**Airway assessment and airway management**
Monday	Morning report	**Monitoring in Anesthesia, Preoperative assessment and premedication**	break	Conduction of anesthesia and **anesthetic agents (**Inhalational Agents)
Tuesday	Morning report	**Local Anesthetic Agents**	break	**Local Anesthetic Techniques**
Wednesday	Morning report	ANESTHETIC **AGENTS (INTRAVENOUS** AGENT	break	**Muscle relaxant& anticholinergic drugs &cholinesterase inhibitors**

clinical Anesthesia week:

day	8-830	8-30-12:30	12:30-1	1-3 pm
Sunday	Morning report	Bed Side teaching	break	Case presentation
Monday	Morning report	Bed side teaching	break	Case presentation
Tuesday	Morning report	Bed side teaching	break	Case presentation
Wednesday	Morning report	Bed side teaching	break	Case presentation