

**Title of Clerkship:** Critical Care -- UTMC

**Elective Type:** Elective

**Department:** Anesthesiology

**Type of Elective:** Clinical

**Clerkship site:** The University of Toledo Medical Center/The Toledo Hospital

**Course Number:** ANES 704

**Blocks available:** By permit only

**Number of students per:** 2

**Faculty:** Shashi Bhatt, M.D., Anthony Braid, M.D., Andrew Casabianca, M.D., Gregory Filatoff, M.D., Zahra Gardezi, M.D., Sarah Gerken, M.D., Daniel Grum, M.D., Ali Hassan, M.D., James Hofmann, M.D., Kimberly Jenkins, M.D., Colleen Lancz, M.D., Alan Marco, M.D., Mukesh Pitroda, M.D., Thomas Rooney, M.D., Sooraj Yermal, M.D.

**Elective Description/ Requirements:** Perioperative medicine addresses the medical care of the surgical patient and focuses on the patient's status before, during, and after the actual surgical procedure. Critical Care/Peri-op students will be integral members Of the service caring for the critically ill.

**Length of Clerkship:** 2 weeks

**Links to EPOs**  
K3, Kr, K5, K7, S7, S8, S9

K3, K4, K6, K7  
K6, K9  
K6, K7

K6, K7

K2, K7  
K6, S10  
K3, K6, S10

K9  
K9, K7, S1

S6  
S6, S10

**Educational Course Objective:** At the end of the clerkship, the student will be able to:

1. Evaluate a patient to assess appropriateness of a patient's condition prior to anesthesia and surgery.
2. Interpret a patient's condition prior to anesthesia and surgery.
3. Identify options for anesthetic management for individual surgical procedures.
4. Describe airway anatomy and assess for appropriateness for the different types of available airway management techniques.
5. Discuss the pharmacology and pharmacodynamics of anesthetic agents (intravenous, inhalational and regional), and agents used in the management of critically ill patients.
6. Apply appropriate fluid management techniques during surgery and in the ICU.
7. Discuss how to manage common intraoperative complications.
8. Discuss how to manage common post-operative complications.
9. Demonstrate Ventilator management in the Intensive Care Unit.
10. Summarize the management of sepsis, ventilator associated pneumonia, electrolyte and Acid-based abnormalities.
11. Demonstrate invasive line placement and management under supervision
12. Discuss the management of failures of the central nervous system, cardiovascular system, Respiratory system, gastrointestinal system (including hepatic) and renal system.

**Professionalism:** UT/Com students will meet or exceed the institutional standards for professionalism as stated in the current Educational Program Objectives for the Sponsoring Department.

**Instructional Methods:**

1. Didactics/Lectures
2. Teaching rounds
3. Small group discussion

**Evaluation methods employed:**

1. 10 minute oral presentation of an approved topic to faculty, residents and students.
2. Faculty observation and assessment of clinical skills by the attending and resident Anesthesiologist who have worked with the students during the rotation.
3. Attendance

**Prerequisites:** Successful completion of clerkships in: Internal Medicine, Family Medicine, Surgery, Pediatrics and Obstetrics & Gynecology.

**Clerkship Director:** James Hofmann, M.D.

**Clerkship Coordinator:** Patti Finch

**Phone number:** 419-383-3507

**Email:** [patti.ellis@utoledo.edu](mailto:patti.ellis@utoledo.edu)

**Special requirements:** Participation in night call once per week for exposure to a varied case mix is possible.