

# ANESTHESIOLOGY - MD (ANSTH)

## ANSTH 700: Introduction to Anesthesiology and Perioperative Medicine

2.5 Credits/Maximum of 2.5

This 2 week elective is designed as an introduction to anesthesiology and perioperative medicine relevant to all medical specialties, and will be offered throughout Phases II-IV. Students will learn basic concepts of anesthesiology and have the opportunity to participate in patient care with the anesthesia team in the operating room environment and hospital. Daily clinical assignments with the anesthesia team will provide continuous direct supervision by anesthesiology faculty, residents, and nurse anesthetists. During the elective, students will apply foundational knowledge of physiology, pharmacology, and anatomy to patient care and learn the anesthetic implications of each. Students will also learn and apply knowledge of anesthesia concepts to preoperative evaluation, and how surgical indications and patient comorbidities influence anesthetic planning and delivery. Learning experiences will include observation, participation, and interactive discussions with the anesthesia team during clinical patient care. Students will attend the resident lecture series and spend a day in both the Chronic Pain Clinic and the Preoperative Evaluation Clinic. The simulation lab may be used to facilitate learning of proper monitor placement, airway management, and other skills. When appropriate and at the discretion of the faculty anesthesiologist, students will have the opportunity to perform basic monitoring placement and procedures under direct supervision during patient care. Students will be expected to complete required reading assignments and discussion questions based upon the learning objectives. Preparation for daily assignments will include knowledge of pertinent patient information from the electronic medical record and discussion of the anticipated anesthetic plan with the anesthesia team on the day prior to the planned surgical procedure. Clinical assignments will be determined by the course director and a core group of anesthesiology faculty, and will be released in congruency with the operating room schedule on the day prior to surgery. Students will be expected to report in the morning to assist with operating room setup, and will remain with the assigned anesthesia team until completion of the day. Attendance at daily clinical assignments will be mandatory and excusals will be at the discretion of the course director. There will be no weekend or night call requirements.

**Prerequisites:** Successful completion of Phase I

## ANSTH 701: Advanced Anesthesiology and Perioperative Medicine

2.5 Credits/Maximum of 2.5

This 2 week elective will build upon concepts learned during the prerequisite 2 week ANSTH 700 elective, and is designed for students interested in further knowledge and experience in clinical anesthesiology. It will be offered throughout Phases II-IV and is recommended for students interested in career exploration within the specialty of anesthesiology. Students will apply prior knowledge and newly learned concepts in the delivery of anesthesia during patient care. Upon completion of the elective, students will be expected to choose an appropriate anesthetic and pain management plan based upon patient conditions and surgical indications by applying advanced concepts of physiology, pharmacology, and anatomy. Perioperative patient care will occur largely within the operating room environment and perioperative

setting. Daily clinical assignments with the anesthesia team will provide continuous direct supervision by anesthesiology faculty, residents, and nurse anesthetists. Learning experiences will include observation, participation, and interactive discussions with the anesthesia team during clinical patient care. Students will also have the opportunity to attend the resident lectures offered during the course. Case based learning discussion sessions and the simulation lab may be used to provide learning opportunities in addition to the operating room. At the discretion of the faculty anesthesiologist, students will have the opportunity to perform basic monitor placement and procedures under direct supervision during patient care. Students will be expected to complete required reading assignments and discussion questions based upon the learning objectives. Preparation for daily assignments will include knowledge of pertinent patient information from the electronic medical record and discussion of the anticipated anesthesia plan with the anesthesia team on the day prior to the planned surgical procedure. Clinical assignments will be determined by the course director and a core group of anesthesiology faculty, and will be released in congruency with the operating room schedule on the day prior to surgery. Students will be report in the morning to assist with operating room setup and will remain with the assigned anesthesia team until completion of the day. Attendance at daily clinical assignments will be mandatory and excusals will be at the discretion of the course director. There will be no weekend or night call requirements.

**Prerequisites:** ANSTH 700

## ANSTH 740: Anesthesia Acting Internship

5 Credits/Maximum of 5

The acting internship in anesthesia is designed to expand on the experiences obtained in courses ANSTH 700 and 770.

**Prerequisite:** ANSTH700 , ANSTH770 , and third-year core clerkships

## ANSTH 770: Subspecialty and Complex Anesthesiology

5 Credits/Maximum of 40

This 4 week elective offered in Phase III/IV will build upon the concepts learned during the prerequisite 2 week electives, and is designed for students interested in preparation for a career in anesthesiology. The elective will be designed for students to function at the level expected of a resident intern on the anesthesia team. Students will have experiences in complex subspecialty cases including; pediatrics, obstetrics, cardiothoracic, vascular, acute pain management, and neurosurgery. Students will learn advanced applications of physiology, pharmacology, and anatomy in the care of patients with complex disease pathologies for subspecialty surgery. Perioperative patient care will occur largely within the operating room setting, including the Children's Hospital and Labor & Delivery Unit. Daily clinical assignments with the anesthesia team will provide continuous direct supervision by faculty, residents, and nurse anesthetists. Learning experiences will include observation, participation, and interactive discussions with the anesthesia team during clinical patient care. Students will attend the resident lecture series offered during the selective period. Daily performance evaluations by the anesthesia team will serve as formative and summative feedback. Case based learning discussions and the simulation lab may be used to provide additional learning opportunities. At the discretion of the faculty anesthesiologist, students will have the opportunity to perform monitor placement and basic procedures under direct supervision during patient care. Students will be expected to complete required reading assignments and discussion questions based upon the learning

objectives. Preparation for daily assignments will include knowledge of pertinent patient information from the electronic medical record and discussion of the anticipated anesthetic plan with the anesthesia team prior to the surgical procedure. Clinical assignments will be determined by the course director and a core group of anesthesiology faculty, and will be released in congruency with the operating room schedule on the day prior to surgery. Students will report in the morning to assist with operating room setup and will remain with the assigned anesthesia team until completion of the day. Attendance at daily clinical assignments will be mandatory and excusals will be at the discretion of the course director. Students will be expected to participate in one weekend and three overnight calls during the 4 week period.

**Prerequisite:** ANSTH 700 and ANSTH 701

ANSTH 772: Pain Management

5 Credits/Maximum of 40

Includes evaluation, diagnosis, and treatment of complex chronic pain problems in an outpatient model. A hands-on approach will be emphasized.

**Prerequisite:** completion of first three years of medical curriculum

ANSTH 796: Anesthesia Individual Studies

5 Credits/Maximum of 40

Special studies program, usually involving investigative work, all hours and assignments by arrangement with a member of the anesthesia staff-faculty.

**Prerequisite:** successful completion of third year core clerkships. Students must contact course director for pre-approval prior to registering for this course.

ANSTH 797: Anesthesia Special Topics

5 Credits/Maximum of 40

Anesthesia Special Topics

**Prerequisite:** successful completion of 3rd year core clerkships