

## ANES 2101 Course

**Course:** General Anesthesiology Elective

**Course Number:** ANES 2101

**Department:** Anesthesiology & Pain Management

**Faculty Coordinator:** Amy Woods, M.D. ([amy.woods@utsouthwestern.edu](mailto:amy.woods@utsouthwestern.edu))

**Location:** Zale, CUH, Parkland, & CMC

**Length:** 4 weeks

**Prerequisites (if any):** NONE

**Periods offered:** 1-12

**Number of students:** 10

**First day Contact:** Brian Frasure ([brian.frasure@utsouthwestern.edu](mailto:brian.frasure@utsouthwestern.edu))

**First day time:** Varies, typically 0900. Specific time to be provided in orientation email.

**First day location:** Sprague Building, 2<sup>nd</sup> floor, Anesthesia Office Suite

- I. **Course Description:** This is a 4-week, elective experience that allows students an opportunity to participate in peri-operative medicine. The student will learn the basic principles, techniques, and philosophy pertaining to the modern practice of anesthesiology and pain management. Emphasis will be directed towards the understanding of physiologic and pharmacologic mechanisms encountered in the daily practice of anesthesiology. In the classroom, students will learn the basic anesthetic principles, which govern inhalation, IV, and local anesthesia. Extensive instruction and exposure to airway management and intubation techniques will be provided. Students will be instructed in sub-specialty areas of anesthesia, including cardiothoracic, obstetric, pediatric, acute/chronic pain management and neuroanesthesia. The course allows anesthesiology-bound and non-anesthesiology bound students to gain a basic understanding of the concepts, planning, and work that goes into the peri-operative care of patients.

II. **Learning goals/objectives/Assessments:**

Goals	Objectives	Assessment methods (examples)
<b>Patient Care:</b> Students will learn about and engage in the pre-operative work-up, intraoperative management, and post-operative planning for patients undergoing general anesthesia for a variety of cases. The student will learn basic airway and IV insertion skills.	<ol style="list-style-type: none"><li>1. The student will be able to list the components necessary for a focused pre-anesthesia history and physical.</li><li>2. The student will be able to assemble the equipment necessary for basic bag/mask ventilation and intubation.</li><li>3. The student will be able to</li></ol>	<i>The student will work on-one-one with an anesthesiology resident or faculty, who will incorporate the student into the care team. The student will receive individualized attention and formative feedback on his/her performance.</i>

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	<p>place basic monitors on a patient.</p> <p>4. The student will be able to list the steps necessary for peripheral IV insertion.</p>	
<p><b>Medical knowledge:</b> Students will learn about anesthetic pharmacology and its affect on normal physiology. Students will learn about how anesthesiologists manage co-morbidities in the peri-operative period.</p>	<p>1. The student will be able to list the common inhalational and intravenous anesthetics and describe how they work.</p> <p>2. The student will be able to list the common paralytic agents used during an anesthetic.</p> <p>3. The student will be able to list the common analgesics (opioids, NSAIDs, others) that are used during an anesthetic.</p> <p>4. The student will be able to describe basic effects of anesthetics on normal physiology.</p>	<p><i>The student will have guided discussions with assigned resident and faculty as part of clinical education and will be given formative feedback on fund of knowledge.</i></p>
<p><b>Interpersonal and Communication skills:</b> The student will observe and engage in inter-professional communication. The student will observe and emulate behaviors conducive to good teamwork.</p>	<p>1. The student will list important behaviors necessary for good teamwork.</p> <p>2. The student will demonstrate basic communication skills necessary to work alongside other professionals (MDs, nurses, techs)</p>	<p><i>The student will be given regular feedback in a formative way.</i></p>
<p><b>Professionalism:</b> The student will demonstrate respect for patients and colleagues. The student will be punctual, dress appropriately, and behave responsibly.</p>	<p>1. The student will be punctual and complete all required work.</p> <p>2. The student will demonstrate respect and compassion for others.</p> <p>3. The student will demonstrate respect for patient privacy and autonomy.</p>	<p><i>The student will be observed and given feedback in real time as necessary.</i></p>
<p><b>Practice Based Learning and Improvement</b></p>	<p>1. The student will identify topics of interest and demonstrate a focused literature review.</p>	<p><i>The student will be observed giving a 10 minute oral presentation to her/his cohort and the end of the rotation.</i></p>
<p><b>System based practice</b></p>	<p>1. The student will identify and describe the role of the</p>	<p><i>The student will be observed and given feedback in real time</i></p>

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	multidisciplinary physician, nurse, and technician team that is necessary to care for patients in the perioperative period.	<i>as necessary in her/his interactions with the multidisciplinary team with respect to roles and functions.</i>
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**III. Methods of Instruction:** Clinical and Patient-facing experiences, Simulation-based sessions using low- and high-fidelity manikins, Optional didactic learning.

**IV. Schedule:** Varies. Typically, Monday through Friday, 630 am to 4 pm

**V. Course requirements:** Participation in daily activities with preceptor and simulation lab, End of the rotation oral presentation

**VI. Methods of evaluation:** Formative feedback and written comments

**VII. Recommended reading:** Given during rotation