**ANES 4001: ANESTHESIOLOGY**

**Faculty In Charge Of Course:** Travis Markham, M.D. Lauren Brollier M.D.

**Participating Faculty:** All Anesthesiology Faculty

**Location:** Memorial Hermann Hospital/ LBJ Hospital

**Offered:** Blocks 1-11

**Max. # Students/Period:** Blocks 1 & 2 = 6 students  
Block 3 = 6 students  
Block 4 = 6 students  
Blocks 5-11 = 5 students

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**Course Objective:**

**Material Covered:**
This rotation is geared toward medical students intending to choose anesthesiology as a career and to be prepared for residency. The student will be exposed to the basic science (physiology/pharmacology) of the specialty as well as to clinical practice. The student, under the supervision of faculty and resident anesthesiologists, will evaluate patients preoperatively, administer anesthetics, and follow patients immediately postoperatively. Limited exposure to anesthetic subspecialties is available by special arrangement. Students will learn airway management by all methods and intravenous line placement. Student may have the opportunity to place central and arterial lines and perform regional anesthetic procedures as deemed appropriate by the supervising faculty.

**Activities of Elective:**

**Number of New Patients/Student/Week:** 6-15  (No long-term follow-up after anesthesia post-op visit)

**Responsibilities of Student for Assigned Patients:**

- Does history/physical: Yes, pre-op evaluation of patients
- Who critiques: Course coordinator, resident preceptor, and faculty
- Who supervises: Resident preceptor and faculty
- Does student see ambulatory patients: Yes (SADS and DSU patients pre-op)

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**Procedures**

<table>
<thead>
<tr>
<th>Procedures</th>
<th>Observe</th>
<th>Perform</th>
</tr>
</thead>
<tbody>
<tr>
<td>Airway management</td>
<td>X</td>
<td>X*</td>
</tr>
<tr>
<td>Endotracheal intubation</td>
<td>X</td>
<td>X*</td>
</tr>
<tr>
<td>Peripheral IV placement</td>
<td>X</td>
<td>X*</td>
</tr>
<tr>
<td>General Anesthesia</td>
<td>X</td>
<td>X*</td>
</tr>
<tr>
<td>Regional Anesthesia</td>
<td>X</td>
<td>X*</td>
</tr>
<tr>
<td>Arterial Catheterization</td>
<td>X</td>
<td>X*</td>
</tr>
<tr>
<td>Central line placement</td>
<td>X</td>
<td>X*</td>
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</tbody>
</table>

*Selectively & supervised

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**Scheduled Duties of Student:**

- Frequency of rounds on patient: Not applicable
- Presents patients to preceptor or attending physician: Yes
- Weekly schedule of required teaching sessions: See below. No call or weekends.

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**Describe Optional Rounds & Activities, If Any:**

Each student will have 2 weeks of general anesthesia and 2 weeks of “specialty anesthesia” which may include CV, Pain, OB and Pediatrics. Mandatory attendance:

- Weekly medical student noon lectures with faculty
- Weekly Thursday morning Grand Rounds (with resident preceptors)

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**Other Required Activities:**

- Reading/Review of Current Literature: Anesthesia literature available for use while on service.
- Writing or Presenting A Paper: No

Grading system: Final grade based on performance on written exam.

- H: > 80%
- HP: 65-79%
- P: 46-64%
- MP: <45%

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**How Is Student Evaluated:**
Students are evaluated by residents, faculty and staff with whom they have worked. In order to be evaluated, students must have the assigned resident or faculty scan the loaned QR code evaluation card and complete the online evaluation. Further evaluation by a written exam based on lectures and a procedure log, are due at the end of the elective. The final grade is based on performance on attendance and written exam.

**Unique Features Of This Elective:**

This elective is intended to prepare the medical student for a residency in anesthesiology. Teaching/learning will be a one-on-one experience with anesthesia residents and faculty. The elective allows the medical student to be exposed to many different areas of anesthesiology, including cardiovascular anesthesiology, regional anesthesiology, pain management, and obstetrical anesthesiology.

Students will also have the opportunity to combine physiology, pharmacology, & clinical medicine with practical skills, and extensive “hands-on” patient management. “Basics of Anesthesiology” by Ronald Miller and Robert Stoelting is the elective’s suggested textbook electronically borrowed from the TMC Library.

**Attendance Policy:**

The MS IV Elective attendance policy allows up to 4 days absence on an elective – for excused reasons, such as Residency Interview. These must be requested in advance of the actual absence. If the medical student does exceed the FOUR (4) absences, then the medical student is REQUIRED to take Saturday call (7-3). If the medical student exceeds FIVE (5) absences, then they will not receive a satisfactory completion of the elective.