

## Fall 2020 Course Descriptions as of 04/05/2020 08:10 PM

Information in Browse Course Catalog is subject to change. Information is term specific. Please refer to the appropriate term when searching for course content. Key to Course Descriptions may be found at: [http://rcs.registrar.arizona.edu/course\\_descriptions\\_key](http://rcs.registrar.arizona.edu/course_descriptions_key).

### Anesthesiology (ANES)

#### **ANES 499: Independent Study** (1 - 3 units)

**Description:** Qualified students working on an individual basis with professors who have agreed to supervise such work.

**Grading basis:** Alternative Grading: S, P, F

**Career:** Undergraduate

**Course Components:** Independent Study Required

**Repeatable:** Course can be repeated a maximum of 99 times.

**Course typically offered:**

Main Campus: Fall, Spring, Summer

#### **ANES 800: Research** (1 - 16 units)

**Description:** To provide the student with an opportunity to participate in ongoing laboratory or clinical research in the Department of Anesthesiology. Format: Determined by the student in conjunction with the supervising faculty member. Currently, topics under investigation include: Phase I, II, III, and IV clinical trials with new medications, engineering, and evaluation of anesthesia delivery systems and anesthesia monitoring equipment, human factors (interaction of the physician with anesthesia equipment and with the operating room environment), optimal management of anesthesia, and basic research into pain mechanisms and pain pharmacology.

**Grading basis:** Clerkship S,HP,P,F

**Career:** Medical School

**Course Components:** Independent Study Required

**Repeatable:** Course can be repeated for a maximum of 16 units.

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** Contact office prior to enrolling. Student must provide proof of successful completion in both Human Subject Protection Training and Blood Borne Pathogen Training.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ANES 837A: Anesthesia (Surgery Subspecialty) (2 - 3 units)**

**Description:** Students will be assigned daily to work with a faculty member and a resident on specified operative cases. In addition, the student is provided with a daily reading/task curriculum to guide their learning experience. An appropriate Anesthesiology textbook is provided to the student for the duration of the rotation. Didactic sessions include daily conference (6:30 – 7:30) and Wednesday morning lecture and clinical conference (6:30 – 8:30). Emphasis of the rotation is perioperative patient management and the curriculum will focus on subject matters with significant overlap into other specialties.

**Grading basis:** Clerkship S,HP,P,F

**Career:** Medical School

**Course Components:** Independent Study      Required

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** Successful completion of all Clerkships. Medical students only.

**ANES 845: Critical Care Medicine (1 - 16 units)**

**Description:** Course provides the student with an introduction to the management of the patient with severe multiple system disease in the surgical intensive care unit setting. Major emphasis will be placed on providing an understanding of the diagnosis and management of acute respiratory failure, fluid, electrolyte, cardiovascular and neurological disorders. Format: The experience will consist of a four-week assignment to the Critical Care Medicine Service. Students will work under the supervision of residents and fellows of this service and an attending physician. They will participate in patient consultations and follow-up, rounds and conferences.

**Grading basis:** Clerkship S,HP,P,F

**Career:** Medical School

**Course Components:** Independent Study      Required

**Repeatable:** Course can be repeated a maximum of 99 times.

**Equivalent to:** IMED 815P, MEDI 815P, SURG 815P

**Course typically offered:**

Main Campus: Fall, Spring

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ANES 847: Anesthesiology (1 - 16 units)**

**Description:** At the end of the four-week University of Arizona Anesthesiology rotation, the Medical Student will be able to: 1. Evaluate a patient for a general anesthetic with special attention to: a. Airway history and examination b. Full stomach risk factors c. Medications and the need to continue peri-operatively d. Cardiovascular and pulmonary history and examination 2. Manage the adult airway before intubation 3. Gather the appropriate supplies and place peripheral intravenous lines 4. Evaluate a patient for the necessity of endotracheal intubation 5. Induce general anesthesia with drugs appropriate for the patient 6. Gather the appropriate supplies and intubate an adult patient 7. Evaluate a patient for conscious sedation for painful procedures and use the appropriate drugs. Format: Students will be assigned daily to work with a faculty member and a resident on specified operative cases. In addition, the student is provided with a daily reading/task curriculum to guide their learning experience. The textbook, Clinical Anesthesiology by Morgan & Mikhail, is provided to the student for the duration of the rotation. Didactic sessions include daily conference (6:30 - 7:00) and Wednesday morning lecture and clinical conference (6:30 - 8:30).

**Grading basis:** Clerkship S,HP,P,F

**Career:** Medical School

**Course Components:** Independent Study      Required

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** 3rd and 4th-year medical students only.

**ANES 849: Anesthesiology Sub-Internship (1 - 16 units)**

**Description:** At the end of this subinternship, the student will be able to: administer a general anesthetic on an ASA performance status I or II patient which includes comprehensive pre-anesthetic evaluation, appropriate preparation of the site of the general anesthetic, induction of general anesthesia, maintenance of general anesthesia, emergence of general anesthesia, transport to the post anesthesia care unit, report to the post anesthesia care unit nurse; evaluate a patient for the necessity of endotracheal intubation; recognize and manage a patient with a potentially difficult airway; gather the appropriate supplies to place a central venous line; gather the appropriate supplies and place an arterial line; evaluate a patient for conscious sedation for painful procedures and use the appropriate drugs.

**Grading basis:** Clerkship S,HP,P,F

**Career:** Medical School

**Course Components:** Independent Study      Required

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** ANES 810A; 3rd and 4th-year medical students only.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ANES 850A: Comprehensive Chronic Pain Management (2 - 4 units)**

**Description:** The overall goal of this elective is to provide exposure to chronic pain management in the department of Anesthesiology, chronic pain division. Students will be exposed to different types of managements for musculoskeletal, neuropathic, and cancer pain. The management will involve pharmacological management including non-opioids options as well as a large array of interventional procedures to control pain. The students will learn to expand their differential diagnosis for pain based upon thorough history and physical examination. Students will also learn when to obtain diagnostic studies such as MRI, CT, X-rays, EMG and understand their correlation with pain etiology. Finally, students will be educated about the effects of chronic opioids, how to approach a patient regarding opioid weaning, and the laws in Arizona regarding prescribing.

**Grading basis:** Clerkship S,HP,P,F

**Career:** Medical School

**Course Components:** Independent Study      Required

**Course typically offered:**

Main Campus: Fall, Spring

**Field trip:** N/A

**ANES 891A: Anesthesiology and Subspecialties (1 - 16 units)**

**Description:** Specialized work on an individual basis, consisting of instruction and practice in actual service in a department, program, or discipline. Teaching formats may include seminars, in-depth studies, laboratory work and patient study.

**Grading basis:** Clerkship S,HP,P,F

**Career:** Medical School

**Course Components:** Independent Study      Required

**Repeatable:** Course can be repeated a maximum of 99 times.

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** 3rd and 4th-year medical students only.

**ANES 899: Independent Study (1 - 16 units)**

**Description:** The goal of this elective is to allow the student to work with a particular faculty member in pursuit of a particular field of study in anesthesiology.

**Grading basis:** Clerkship S,HP,P,F

**Career:** Medical School

**Course Components:** Independent Study      Required

**Repeatable:** Course can be repeated a maximum of 99 times.

**Course typically offered:**

Main Campus: Fall, Spring

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.