**ANE PERIOP 110 Anesthesia Core Clerkship (0.5-3 Units) Fall, Winter, Spring, Summer**

*Instructor(s):* Kristine E Breyer  
Prerequisite(s): Third-year standing.

Restrictions: 3rd year medical students.

A comprehensive experience in anesthesia & perioperative care. Clinical skills include airway management, IV insertion, drug administration, physiologic monitoring, sedation and acute pain management. The OR facilitates review of pulmonary/cardiovascular physiology and pharmacology. Developing rapport, confidence, professionalism and communication are emphasized. Reflection helps the student find meaning.

School: Medicine  
Department: Anesthesia And Perioperative Care

May the student choose the instructor for this course? No  
Does enrollment in this course require instructor approval? No  
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory), In Progress (IP, SP/UP) grading allowed  
Graduate Division course: No  
Is this a web-based online course? No  
Is this an Interprofessional Education (IPE) course? No  
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No  
Repeat course for credit? Yes

**ANE PERIOP 130.01 CIEEx - Pain Management Elective (1.5-3 Units) Fall, Winter, Spring, Summer**

*Instructor(s):* Xiaobing Yu  
Prerequisite(s): None

Restrictions: Medical Students in Foundations 2

Activities: Clinical

This is a Bridges Curriculum Clinical Immersive Experience (CIEEx), which provide medical students in Foundations 2 opportunities to broaden and enhance their professional development in health care settings different from those of their core clerkships. Students will be exposed to a diverse population of patients with complex chronic pain or cancer pain frequently seen in the primary care and inpatient settings, as well as develop fundamental knowledge and skills in the assessment of pain.

School: Medicine  
Department: Anesthesia And Perioperative Care

May the student choose the instructor for this course? No  
Does enrollment in this course require instructor approval? No  
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  
Graduate Division course: No  
Is this a web-based online course? No  
Is this an Interprofessional Education (IPE) course? No  
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No  
Repeat course for credit? No

**ANE PERIOP 130.02 CIEEx - Equity in Pain Medicine (1.5-3 Units) Fall, Winter, Spring, Summer**

*Instructor(s):* Neelesh Anand  
Prerequisite(s): None

Restrictions: Medical students in Foundations 2

Activities: Clinical

This is a Bridges Curriculum Clinical Immersive Experience (CIEEx), which provide medical students in Foundations 2 opportunities to broaden and enhance their professional development in health care settings different from those of their core clerkships. Students will join the acute pain service team, which manages patients with complex post-surgical pain. Students will evaluate patients in the chronic pain clinic, participate in pain alleviation procedures, and examine related social issues.

School: Medicine  
Department: Anesthesia And Perioperative Care

May the student choose the instructor for this course? No  
Does enrollment in this course require instructor approval? No  
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  
Graduate Division course: No  
Is this a web-based online course? No  
Is this an Interprofessional Education (IPE) course? No  
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No  
Repeat course for credit? No
ANE PERIOP 130.15 CiEx - Pediatric Anesthesia (3 Units) Fall, Winter, Spring, Summer
Instructor(s): Gail S. Shibata, Gabriel E Sarah
Prerequisite(s): 3rd year student in good academic standing

Restrictions: None
Activities: Clinical

This is a Bridges Curriculum Clinical Immersive Experience (CiEx), which provide medical students in Foundations 2 opportunities to broaden and enhance their professional development in health care settings different from those of their core clerkships. Students will explore the Pediatric Anesthesia service and be exposed to the operating room, pediatric pain service and non-OR procedural areas.

School: Medicine
Department: Anesthesia And Perioperative Care
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
Repeat course for credit? No

ANE PERIOP 140.02 Off-Campus Clerkship (3-6 Units) Fall, Winter, Spring, Summer
Instructor(s): Kristine E Breyer
Prerequisite(s): Anesthesia 110.

Restrictions: None
Activities: Clinical

Off-campus clinical clerkships in approved hospitals by special arrangement and approval of the Director of Medical Student Education, Department of Anesthesia.

School: Medicine
Department: Anesthesia And Perioperative Care
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? Yes
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
Repeat course for credit? Yes

ANE PERIOP 140.03A Advanced Intensive Care (6 Units) Fall, Winter, Spring, Summer
Instructor(s): Julin Tang
Prerequisite(s): ANE PERIOP 110\MEDICINE 110\SURGERY 110

Restrictions: None.
Activities: Clinical

A 4-week clinical clerkship which offers a perspective into the clinical cases and research opportunities offered by the department. At ZSFGH students will take night call, during their week at Mount Zion students will gain an understanding of the basic principles of ultrasound-guided blocks. At VA hospital students will pair with residents during their cardiovascular rotation, and at Moffitt Long hospital, students will manage ASA 1 and ASA 2 cases.

School: Medicine
Department: Anesthesia And Perioperative Care
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? Yes
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
Repeat course for credit? No
ANE PERIOP 140.03B  Advanced Intensive Care (6 Units) Fall, Winter, Spring, Summer
Instructor(s): Rondall K. Lane
Prerequisite(s): Anesthesia 110, Medicine 110, Surgery 110 or consent of instructor.

Restrictions: None.
Activities: Lecture, Clinical

The student will participate in the care of critically ill adults with a variety of medical and surgical conditions. The clerkship will integrate an understanding of respiratory, cardiovascular, cerebral and renal pathophysiology with diagnostic and therapeutic techniques required to care for patients with multisystem failure.

School: Medicine
Department: Anesthesia And Perioperative Care

May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
Repeat course for credit? No

ANE PERIOP 140.06  Pain Management (6 Units) Fall, Winter, Spring, Summer
Instructor(s): Xiaobing Yu
Prerequisite(s): None.

Restrictions: None.

This course in pain management allows students to participate in the assessment and treatment of patients with chronic pain in an outpatient setting. Morning lectures, journal clubs and multidisciplinary treatment plan meetings comprise the didactic portion, while outpatient pain management evaluations and interventional procedures with faculty, fellows and residents provide the clinical portion.

School: Medicine
Department: Anesthesia And Perioperative Care

May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
Repeat course for credit? No

ANE PERIOP 140.07  Advanced Anesthesia for 4th Year OMFS Students (16.5-18 Units) Fall, Winter, Spring, Summer
Instructor(s): Marc A Buren
Prerequisite(s): None

Restrictions: Restricted to OMFS
Activities: Seminar, Clinical

This is a 12-week advanced elective in general anesthesia for participants in Oral & Maxillofacial Surgery who are in the medical school phase of their integrated training program. It fulfills partial requirements for accreditation in Oral & Maxillofacial Surgery.

School: Medicine
Department: Anesthesia And Perioperative Care

May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
Repeat course for credit? No

ANE PERIOP 140.08  Obstetric Anesthesia (3 Units) Fall, Winter, Spring, Summer
Instructor(s): Ronald B George
Prerequisite(s): ANE PERIOP 110, OB GYN R S 110

Restrictions: None.

This course is designed for students interested in either Obstetrics/Gynecology or Anesthesia as it relates to Women's Health. The clerkship views labor & delivery from the anesthesia perspective, with emphasis on physiology, pharmacology & specific disease processes of pregnancy. The educational & skills objectives are defined by the principles & practice of obstetric anesthesia. The student's goal is to become a more knowledgeable, more skilled & more effective physician in an obstetric unit.

School: Medicine
Department: Anesthesia And Perioperative Care

May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
Repeat course for credit? No
ANE PERIOP 140.10 Pediatric Anesthesia (3 Units) Fall, Winter, Spring, Summer
Instructor(s): Gail S. Shibata
Prerequisite(s): ANE PERIOP 110 or PEDIATRICS 110

Restrictions: None.

This course is designed for students interested in Pediatrics or Pediatric Anesthesia. The clerkship incorporates issues of importance to the pediatrician and pediatric anesthesiologist, including preoperative evaluation and preparation, sedation management and monitoring, airway management, implications of common and rare pediatric disorders, management for painful procedures and options for remote locations and effective postoperative pain management.

School: Medicine
Department: Anesthesia And Perioperative Care
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
Repeat course for credit? No

ANE PERIOP 140.52 Pediatric Anesthesia for 4th Year OMFS Students (6 Units) Fall, Winter, Spring, Summer
Instructor(s): Zhe Chen
Prerequisite(s): Successful completion of both the Pediatrics & Anesthesia Core Clerkship (110) rotations.

Restrictions: 4th Year OMFS Students only
Activities: Clinical
The pediatric anesthesia rotation will allow students the opportunity to provide hands-on care to children from birth to age 18 undergoing sedation or general anesthesia for myriad surgeries and procedures.

School: Medicine
Department: Anesthesia And Perioperative Care
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
Repeat course for credit? No

ANE PERIOP 140.53 Advanced Cardiac Life Support Training (1 Units) Fall, Winter, Spring, Summer
Instructor(s): Seema S. Gandhi
Prerequisite(s): Before your ACLS course, Visit heart.org/ eccstudent /n1. Enter manual code: acln15 /n3. Click Precourse Self-Assessment (Flash) to begin /n4. Learners must print out their score and bring this on the first day

Restrictions: None
Activities: Web work, Workshop
Advanced cardiac life support, or advanced cardiovascular life support, often referred to by its abbreviation as "ACLS", refers to a set of clinical algorithms for the urgent treatment of cardiac arrest, stroke, myocardial infarction, and other life-threatening cardiovascular emergencies. This course is targeting MS4's who need ACLS certification prior to the start of internship.

School: Medicine
Department: Anesthesia And Perioperative Care
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
Repeat course for credit? Yes

ANE PERIOP 150.01 Research in Anesthesia (3-24 Units) Fall, Winter, Spring, Summer
Instructor(s): Kristine E Breyer
Prerequisite(s): ANE PERIOP 110. Consent of faculty member in charge of students research project and approval of third- and fourth-year coordinator.

Restrictions: None.
Activities: Laboratory, Fieldwork, Project
Students conduct research projects under guidance of faculty member. Projects must be approved by both the research mentor supervising the student and the clerkship director. Students may initiate or become involved in established research programs under faculty guidance.

School: Medicine
Department: Anesthesia And Perioperative Care
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? Yes
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
Repeat course for credit? Yes
ANE PERIOP 170.01A Special Study Course (0.5-1 Units) Fall  
*Instructor(s):* Solmaz P Manuel  
Prerequisite(s): None.  

Restrictions: 1st and 2nd year medical student only.  

Activities: Lecture  

This course is intended to serve as an introduction to anesthesia as a field and the various subspecialties within anesthesia. There will also be a lecture on residency programs including what to expect from the application process and the day-to-day life of residency. Each week, experts from subspecialties, including cardiac, obstetric, pediatric and pain management, will present using a lecture and demonstration format.  

**School:** Medicine  
**Department:** Anesthesia And Perioperative Care  

May the student choose the instructor for this course? No  

Does enrollment in this course require instructor approval? No  

Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  

Graduate Division course: No  

Is this a web-based online course? No  

Is this an Interprofessional Education (IPE) course? No  

May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No  

Repeat course for credit? No  

ANE PERIOP 170.02 Ethics in Medicine Elective (1 Unit) Winter  
*Instructor(s):* Angela M Marsiglio  
Prerequisite(s): None.  

Restrictions: None  

Activities: Lecture  

The ethics in medicine elective serves to supplement the limited instruction students are provided in bioethics. After taking this elective, students will develop the skills necessary to approach complex medical issues providers will grapple with during their careers. This elective consists of a series of lunch talks on a variety of common ethical issues that will provide students foundational ethics knowledge that they can draw on during rotations, residency, and beyond.  

**School:** Medicine  
**Department:** Medicine  

May the student choose the instructor for this course? No  

Does enrollment in this course require instructor approval? No  

Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  

Graduate Division course: No  

Is this a web-based online course? No  

Is this an Interprofessional Education (IPE) course? No  

May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No  

Repeat course for credit? No  

ANE PERIOP 170.03 Exploring Critical Care Medicine (1 Unit) Fall  
*Instructor(s):* Kevin C Thornton  
Prerequisite(s): None.  

Restrictions: None  

Activities: Lecture  

This lunch-time elective will introduce students to the various fields within Critical Care Medicine. It will also discuss the many ways in which students may pursue a career in CCM (i.e. varying combinations of residency and fellowships). Guest lecturers will also discuss their clinical & research interests here at UCSF.  

**School:** Medicine  
**Department:** Anesthesia And Perioperative Care  

May the student choose the instructor for this course? No  

Does enrollment in this course require instructor approval? No  

Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  

Graduate Division course: No  

Is this a web-based online course? No  

Is this an Interprofessional Education (IPE) course? No  

May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No  

Repeat course for credit? No  

ANE PERIOP 198 Supervised Study (1-6 Units) Fall, Winter, Spring, Summer  
*Instructor(s):* Kristine E Breyer  
Prerequisite(s): None.  

Restrictions: None.  

Library research and directed reading under supervision of a member of the faculty with the approval of the chairperson of the department.  

**School:** Medicine  
**Department:** Anesthesia And Perioperative Care  

May the student choose the instructor for this course? No  

Does enrollment in this course require instructor approval? No  

Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  

Graduate Division course: No  

Is this a web-based online course? No  

Is this an Interprofessional Education (IPE) course? No  

May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No  

Repeat course for credit? No