

## 685H ADVANCED THORACIC AND CARDIAC SURGERY

**Course Description:** Advanced Thoracic and Cardiac Surgery is an elective course in which the student is assigned to the cardiothoracic service, evaluates patients with a range of pulmonary and cardiac disorders, participates in all phases of management, and attends rounds and conferences. The student is given basic instruction in cardiopulmonary physiology as it relates to surgical problems. Scrub in on open heart and thoracic cases at UCI medical center.

**Department:** Surgery

**Prerequisites:** UCI students must have successfully completed their basic science curriculum and the Surgery Core Clerkship. Extramural students must be in their last year of undergraduate medical education.

**Restrictions:** None

**Elective Director:** Sebastian Schubl, MD, FACS

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UC Irvine Medical Center, Department of Surgery  
333 City Blvd. West, Suite 1600, Orange, CA 92868

**Site Coordinator:**

Staci Reichenecker, Medical Education Coordinator

[reichens@uci.edu](mailto:reichens@uci.edu) ; 714-456-5532

UC Irvine Medical Center, Department of Surgery  
333 City Blvd. West, Suite 1600, Orange, CA 92868

**Site:** UC Irvine Medical Center

**Instructing Faculty:** Jack Sun, MD; Ali Mahtabifard, MD

**Course Website:** <http://www.surgery.uci.edu/cardiothoracic/index.asp>

**Location to Report on the First Day:** Contact Staci Reichenecker, 714-456-5532, [reichens@uci.edu](mailto:reichens@uci.edu)

**Time to Report on First Day:** varies

**Who to Report to on the First Day:**

Chief Resident on rotation; please wear professional clothes, white coat and badge with credentials visible.

**Periods Available:** Throughout the year

**Duration:** 2-4 weeks

**Number of Students:** 1

**Scheduling Coordinator:**

**UC Irvine students** must officially enroll for the course by contacting the Scheduling Coordinator via email or phone (714) 456-8462 to make a scheduling appointment.

**Extramural students** enrolled at a U.S. LCME medical school must use VSAS to apply. To apply please refer to this website <https://students-residents.aamc.org/attending-medical-school/electives-and-make-courses/applyingaway-electives-vsas/>

**Course Objectives:** At the end of this rotation, students will be able to:

- Demonstrate knowledge and skill in all phases of cardiothoracic service
- Demonstrate skill in surgical technique
- Demonstrate skill in patient management; history taking, physical examination
- Demonstrate the ability to establish rapport with patients
- Demonstrate knowledge of anatomy and physiology of the cardiovascular system Key Topics: • Surgical management of ischemic and valvular heart disease
- Surgical management of pulmonary malignancy
- Critical care management of open heart patients

**Competencies:**

- Surgical management of ischemic and valvular heart disease
- Surgical management of pulmonary malignancy
- Critical care management of open heart patients

**Attitudes and Commitments:**

- Students will understand and appreciate the comprehensive commitment to patients and their families when entrusted to perform high risk procedures.

**Educational Activities:** Information not provided by the department What Students should do to

**Prepare for the Rotation:** N/A

**Clinical Responsibilities of the Student:** Senior medical students will perform at the level of a surgical intern, with the exception of writing patient orders. They will follow and identify with their own patients from admission to discharge as well as clinic follow up. **Patient Care Responsibility:** Senior medical students will perform at the level of a surgical intern, with the exception of writing patient orders. They will follow and identify with their own patients from admission to discharge as well as clinic follow up.

**Call Schedule of the Student:** Call is voluntary and not required for this rotation

**Procedures to be learned by the Student:** Technique for placing a pulmonary artery catheter, harvesting of a saphenous vein and closure of the incision, understanding of the steps involved in establishing cardiopulmonary bypass circuit, removal of mediastinal and thoracostomy tubes, removal and placement of central venous access catheter

**Percentage of Time Student will participate in Ambulatory Setting:** 10%

**Conference/Lecture/Small Group Sessions:** Surgery didactics/grand rounds/M&M are held weekly on Thursdays from 6:30 am to 10:30 am

**Reading:** Schwartz's Principles of Surgery, 10<sup>th</sup> Edition

**Manual Official Grading Policy:**

Students will receive a final grade of Honors, Pass or Fail. The student's final evaluation will be submitted on the standard UC Irvine Elective Evaluation Form. The student's final evaluation will be derived from input from Attendings and Residents. The student will be evaluated with specific attention to: surgical technique, patient management, history and physical taking, patient rapport, and knowledge of anatomy and physiology of the cardiac system. If the student fails the elective a grade of "F" will be permanently recorded on his/her transcript. The student can repeat the course for a second grade; however, the "F" will not be removed from the transcript.

**Absence:** With prior notification, you are allowed a maximum of three (3) days of absence during your 4-week rotation. You will need to reschedule your rotation for another date if you miss more than 3 days. Any questions or issues regarding your critical care clerkship grade should be presented to your course director and the grading faculty.