Course Description: Students spend four weeks as sub-interns during which time they carry the full ward responsibility of an intern on one-half the number of patients usually carried by an intern. The sub-internship is designed to improve clinical competence and to prepare the students for the challenges and demands of the internship. Students may choose between sub-internships in medicine, surgery or pediatrics.

Department: Surgery

Prerequisites: UC Irvine students must have successfully complete their basic science curriculum and the Surgery Core Clerkship. Extramural students must be in their last year of undergraduate education.

Elective Director: Allen Kong, M.D., UC Irvine Medical Center, Department of Surgery, 333 City Blvd. West, Suite 705, Route 81, Orange, CA 92868, 714-456-5890, konga@uci.edu

Instructing Faculty: Michael Lekawa, M.D. (ASC/Trauma @ UCIMC - Acute Care Surgery/Trauma/SICU); Ninh Nguyen, M.D. (White @ UCIMC - Oncology/Breast/CT/Minimally Invasive Surgery/Gastroenterology); Roy Fujitani, MD (Red @ UCIMC - Vascular); Alessio Pigazzi, MD (Blue @ UCIMC - Colorectal); David Imagawa, MD (Green @ UCIMC - Transplant/Hepatobiliary); Ian Gordon, MD (Pink - Vascular @ LBVA); Brian Smith, MD (Yellow - Oncology @ LBVA)

Course Website: None

Who to Report to on the First Day: Get Resident Rotation schedule from Astara Mayeda, UC Irvine Medical Center Department of Surgery, City Tower, Suite 810, Orange, CA 92868, 714-456-5533, ahmayeda@uci.edu

Location to Report on the First Day: Location where assigned - either UCIMC or LBVA

Time to Report on First Day: UCI students taking Pink or Yellow need to call Sharon Davis, Sharon.davis8@va.gov, approximately 4 weeks prior to their start date to submit paperwork. Contact Surgery Coordinator for resident rotation schedule to find team members.

Site Coordinator: Astara Mayeda, UC Irvine Medical Center Department of Surgery, City Tower, Suite 810, Orange, CA 92868, 714-456-5533, ahmayeda@uci.edu

Site: UC Irvine Medical Center

Scheduling Coordinator: UC Irvine students please email comsched@uci.edu or call (714) 456-8462 to make a scheduling appointment. Please read the following information carefully. Any student enrolled at a U.S. LCME medical school will use VSAS to apply. To apply please refer to this website http://www.aamc.org/programs/vsas/.

Periods Available: Throughout the year

Duration: 4-8 weeks

Number of Students: 1 per team (8 total)

Restrictions: None

Course Objectives:

- Conduct surgical patient interviews and perform comprehensive physical examination of patients. Use evidence based medicine to develop a plan and execute patient care. Relate the case of a patient to the needs of the community from which the patient originated.
- All objectives include: evidence based medicine, professionalism, dedication to patient care, patient confidentiality, understanding managed care, advanced directives, demonstrate
comprehensive knowledge of a wide spectrum of surgical diseases, demonstrate experience in following a patient through admission, operative intervention, and post-operative care.

- Skillfully conduct medical interviews and perform comprehensive physical examination of patients with utmost professionalism.
- Use evidence based medicine to conduct medical care in the highest standards of UCI Medical Center's Mission Statement.
- Learn and value the needs of the community and individual patients.

Key Topics:

- Evidence based medicine
- Professionalism
- Dedication to patient care
- Patient confidentiality
- Understanding managed care
- Advanced directives
- Demonstrate comprehensive knowledge of a wide spectrum of surgical diseases.
- Demonstrate experience in following a patient through admission, operative intervention, and post-operative care.

Competencies:

- Student should be able to competently obtain a detailed history, and perform a through physical examination.
- Student should be able to present a detailed history and physical and be able to formulate an accurate differential diagnosis and plan.
- Students should be able to completely utilize laboratory tests appropriate to patient care and interpret those tests to aid in care of his/her patients.
- Students should be able to competently manage core problems appropriately identified by its core specialty for each Sub-internship clerkship.
- Students should become more proficient in time management and organizational skills.
- Admission and stabilization
- Daily management
- Discharge planning
- Demonstrate comprehensive knowledge of a wide spectrum of surgical diseases
- Demonstrate competency in current case presentation and surgical diseases
- Demonstrate understanding of options for a variety of surgical diseases.
- Demonstrate competency in routine post-operative care and the recognition and management of complications.

Attitudes and Commitments:

Upon completion of the course:

- students should have an increased confidence in assuming primary role in the care of the patient.
- To be able to utilize laboratory tests, radiology, and consultants to give care to the highest standards consistent with UCI Medical Center and College of medicine Mission and Value statement.
- Students should become more proficient in communication skills to aid in care of their patients.
- Students will understand professionalism in medicine.
• Internship like responsibilities, e.g., primary workup of new patients, write orders, performs procedures, participates in daily care, takes night call, and writes notes.
• Assume a high level of patient care responsibility in preparation for residency.
• Strengthen their clinical and procedural skills
• Improve their ability to manage complex, acutely ill patients
• Learning to work as a team member
• Demonstrate commitment to the highest quality care.

Educational Activities:
An advanced course in general surgery in which the student is assigned to a general surgical service, becomes further experienced in skills of history taking and physical examination. He/she participates actively in the preoperative evaluation, operative care and post operative management on the ward and in out patient facilities. The student also participates in case presentations and conferences at which a large variety of surgical problems are discussed. Special emphasis is placed on abdominal, colo-rectal, vascular, hepatobiliary/transplant and oncologic surgery. Morning rounds, outpatient clinic OR cases and small group discussion.

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>0600 - 0730</td>
<td>Morning Rounds</td>
</tr>
<tr>
<td>0830 - 1200</td>
<td>Outpatient Clinic</td>
</tr>
<tr>
<td>1300 - 1600</td>
<td>OR cases</td>
</tr>
<tr>
<td>1600 - 1700</td>
<td>Small Group Discussion</td>
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Four weeks in one of five surgical rotations:

• Oncology
• Trauma
• Vascular - Cardio-Thoracic
• GI - Laparoscopic
• Hepatobiliary - Transplant

What Students should do to Prepare for the Rotation: Review recommended reading.

Clinical Responsibilities of the Student: All aspects of patient care for Emergency Department, Out Patient Clinic, ward and operating room as part of surgical team.

Patient Care Responsibility: All aspects of patient care for Emergency Department, Out Patient Clinic, ward and operating room as part of surgical team.

Call Schedule of the Student: Every 4th night

Procedures to be Learned by the Student: Varies with rotation service.

Percentage of Time Student will Participate in Ambulatory Setting: 20%

Conference/Lecture/Small Group Sessions:
There is no standardized material; instruction is tailored to each student's interest and knowledge base.

Course Hours Weekly Summary:

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<thead>
<tr>
<th>Hours</th>
<th>Activity</th>
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<tbody>
<tr>
<td>5.0</td>
<td>Case Based</td>
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<tr>
<td>3.0</td>
<td>Conference</td>
</tr>
<tr>
<td>6.0</td>
<td>Clinic</td>
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<table>
<thead>
<tr>
<th>1.0</th>
<th>Grand Rounds</th>
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<tr>
<td>1.0</td>
<td>Examination</td>
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<td>2.0</td>
<td>Lecture</td>
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<td>Operating Room</td>
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<td>1.0</td>
<td>Review</td>
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<td>1.0</td>
<td>Small Group</td>
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<tr>
<td>1.0</td>
<td>Tutorials</td>
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<tr>
<td>8.0</td>
<td>Ward Rounds</td>
</tr>
<tr>
<td>10.0</td>
<td>Other: reading, writing, journaling</td>
</tr>
<tr>
<td>64.0</td>
<td>Total</td>
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</tbody>
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Content Theme Integration:

- Biostatistics
- Communication
- Community Health
- Death & Dying
- Decision Making
- Epidemiology
- Ethics
- Evidence Based Medicine
- Family violence
- Genetics & Genetic Counseling
- Geriatrics
- Health Care Systems
- Home Health Care
- Informatics
- Medical Jurisprudence
- Medical Socio-economics
- Multicultural Medicine
- Nutrition
- Occupational Health
- Pain Management
- Palliative Care
- Patient Health Education
- Research Methods
- Substance Abuse
- Women's Health

**Required Reading:** As assigned by instructor

Recommended Reading: Current Surgical Therapy, Cameron

**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: ethical behavior, reliability and dependability, ability to work with peers and under faculty direction, relationships with nurses and other hospital personnel, relationships with patients, clinical judgment, history-taking and physical diagnosis skills, ability to identify and formulate problems, manual skills, appropriate use of laboratory, quality of patient record, verbal communication skills, personal appearance, use of medical literature, and knowledge of own limitations.