630I Cardiac Care Unit
This course is available to UC Irvine students only

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<th>Elective at a Glance</th>
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<td><strong>Available to:</strong></td>
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<td><strong>Duration:</strong></td>
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<tr>
<td><strong>Grading:</strong></td>
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<td><strong>Periods available:</strong></td>
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1. Course Director, Coordinator and General Administrative Information

**FACULTY AND STAFF**

<table>
<thead>
<tr>
<th>Name</th>
<th>Office Location</th>
<th>Phone</th>
<th>Email</th>
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<tbody>
<tr>
<td>Course Director: Pranav Patel, MD</td>
<td>333 City Blvd, Ste. 400, Orange, CA 92868</td>
<td>714-456-3868</td>
<td><a href="mailto:pranavp@hs.uci.edu">pranavp@hs.uci.edu</a></td>
</tr>
<tr>
<td>Course Coordinator: Lesley Anderson</td>
<td>333 City Blvd, Ste. 400, Orange, CA 92868</td>
<td>714-456-3868</td>
<td><a href="mailto:lianders@hs.uci.edu">lianders@hs.uci.edu</a></td>
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**DESCRIPTION**

Students will participate as a member of the CCU team, in the management of patients on the service; evaluate and work-up patients and assume responsibility for two patients under the supervision of the admitting resident, cardiology fellow and attending physician; attend ward rounds, attending rounds, students conferences, cath and echo conferences, cardiology grand rounds and medicine grand rounds, look up educational materials relevant to the care of their patients, and complete performance evaluations on the residents, fellow and faculty.

**PREREQUISITES**

This course is intended for fourth-year students enrolled in the undergraduate medical education program at UCI School of Medicine.

**RESTRICTIONS**
This course is intended for fourth-year students enrolled in the undergraduate medical education program at UCI School of Medicine.

This rotation is currently not accepting international students.

**COURSE DIRECTOR**

Dr. Patel has worked in higher education since 2008. He received his medical degree from the St. Louis University School of Medicine, and his internship and residency in Internal Medicine at Case Western Reserve University/University Hospitals of Cleveland. He completed his General Cardiology and then Interventional Cardiology fellowships at the Brown University School of Medicine in Curriculum and Educational Policy Committee 2 Rev. 05/29/2020 Providence, Rhode Island. After this he continued his training in Boston, Massachusetts and then completed a Cardiology Clinical and Research Fellowship at the Harvard Medical School/ Massachusetts General Hospital.

Dr. Patel is currently the Chief, Division of Cardiology, Clinical Professor of Medicine & Biomedical Engineering and Director, Cardiac Catheterization Laboratory at UCI, and also the President of the California American College of Cardiology. He is boardcertified in Cardiovascular Disease and Interventional Cardiology and is involved in the education of medical students, medicine residents, and cardiology fellows. He is also course director of the Biomedical Engineering BME 240 course on the undergraduate campus at UCI.

Lesley Anderson is the course coordinator for the 630B course.

**INFORMATION FOR THE FIRST DAY**

**Who to Report to First Day:** Ask for Lesley or Lucy on the first day of the rotation and you will receive your course packet with instructions.

**Location to Report on First Day:** UCI Medical Center, Department of Internal Medicine, Division of Cardiology, The City Tower, 333 West City Boulevard, Suite 400, Orange, CA 92868

**Time to Report on First Day:** 8:30 AM

**SITE:** UCI Medical Center

**DURATION:** 2 or 4 weeks

**Scheduling Coordinator**

UCI students please email comsched@hs.uci.edu to make a scheduling appointment.

**Periods Available**
The time of the course must be pre-approved by the elective director at least three months prior to the start of the course. No exceptions.

**NUMBER OF STUDENTS ALLOWED**
1 per rotation

**WHAT STUDENTS SHOULD DO TO PREPARE FOR THE COURSE**
Students should be prepared for this course by studying basic principles of the ECG interpretation, management of coronary artery disease, congestive heart failure, basic arrhythmias (atrial fibrillation and ventricular tachycardia), hypertension, dyslipidemia and valvular heart disease (aortic stenosis and mitral regurgitation). Of most importance is knowledge and understanding of obtaining patient history and physical examination.

**COMMUNICATION WITH FACULTY**
Questions about logistics, or other questions, comments or concerns about the course can be directed to the Course Director. Contact information and office location are at the beginning of this document.

The Course Director is also available to meet in person. Please email lianders@uci.edu to arrange an appointment. To ensure that your email will not be lost in the large volume of email received, please use the following convention for the subject line:

**SUBJECT: COURSE NAME, your last name, your issue (e.g. XXX, Smith, Request for appointment)**

2. **Course Objectives and Program Objective Mapping**
The following are the learning objectives for the 620A course. Students are expected to demonstrate proficiency in these areas in order to satisfactorily complete the course. In addition, the extent of a student’s mastery of these objectives will help guide the course evaluation and grade.

<table>
<thead>
<tr>
<th>Course Objective</th>
<th>Mapped UCI School of Medicine Program Objective</th>
<th>Sub Competency</th>
<th>Core Competency</th>
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<td>Demonstrate the ability to perform comprehensive history and physical examinations.</td>
<td>A-1. Knowledge of the structure and function of the major organ systems, including the molecular, biochemical and cellular mechanisms for</td>
<td>Structure and Function of Organ Systems</td>
<td>Knowledgeable</td>
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| Demonstrate the ability to formulate differential diagnoses and therapeutic options. | maintaining homeostasis  
A-2. Knowledge of the pathogenesis of diseases, interventions for effective treatment, and mechanisms of health maintenance to prevent disease | Disease Pathogenesis and Treatment | Knowledgeable |
| Develop the ability to recognize and manage acute cardiac events such as myocardial infarction, arrhythmia and congestive heart failure; interpret and assess basic 12-lead ECG’s. | A-3. Knowledge of basic clinical skills required to meet the skills objectives, including interviewing, physical diagnosis, communication and clinical reasoning processes | Basic Clinical Skills | Knowledgeable |
| Observe acute interventional procedures such as Swan-Ganz placement for hemodynamic monitoring, arterial line placement, and temporary pacing, diagnostic right and left heart catheterization, percutaneous transluminal coronary angioplasty. Placement of intra-aortic balloon pumps. | A-4. Knowledge of population health, epidemiology principles and the scientific basis of research methods relevant to healthcare | Population Health and Epidemiology | Knowledgeable |
| Admit patients to acute cardiac units and participate in managing their care under the direct supervision of the senior medical resident, cardiac fellow and attending physician. | A-5. Knowledge of medical practice, including healthcare economics and health systems impacting delivery and quality of patient care | Medical Practice | Knowledgeable |
| Be encouraged to stay in-house with the senior | D-2. A commitment to patient care and to the | Patient Care | Dutiful |
resident every fourth night, to be arranged at the start of the elective.

well-being of patients and colleagues

3. Course Resources

TEXTS AND READINGS: SUGGESTED
- Marriot, Practical Electrocardiography
- Braunwald, Heart Disease - A Textbook of Cardiovascular Medicine
- Feigenbaum, Echocardiography
- Kern, The Cardiac Catheterization Handbook
- Hurst, The Heart
- Dubin, Rapid Interpretation of EKG’s
- Criley, Cardiology for the House Officer (highly recommended)
- Mann, Heart Failure: A Companion to Braunwald’s Heart Disease
- Hosenpud and Greenberg, Congestive Heart Failure

4. Major Exams, Assignments and Grading

MAJOR ASSIGNMENTS AND EXAMS
To manage patients on the service; evaluate and work-up patients and assume responsibility for two patients under the supervision of the admitting resident, cardiology fellow and attending physician. Complete a performance evaluation

GRADING
Medical Students are graded using the following scale: Honors (H), Pass (P), Fail (F), and Incomplete (I). For further information, please review the Grading Policy. For the assignment of grades, the average and distribution of scores of only the medical students will be used to establish the score range for each grade. The score of any medical student who has previously taken this Clerkship or any portion will not be included in the calculation of these statistics.

You have 30 days from the date of the grade to appeal any aspect of this grade. Please contact your Clerkship/course Director should you have any questions.

Requirements for “Pass”:
To receive a grade of Pass, students must demonstrate successful performance in all the following areas:
- Knowledge
- Patient Care
• Practice-Based Learning
• Interpersonal & Communication Skills
• Professionalism
• Systems-Based Practice

Requirements for “Honors”:

To receive a grade of Honors, students must demonstrate exceptional performance all the following areas:
• Knowledge
• Patient Care
• Practice-Based Learning
• Interpersonal & Communication Skills
• Professionalism
• Systems-Based Practice

Grounds for “Incomplete”: You will not be issued a grade until all elements of the course have been completed.

REMEDIATION

Remediation, if needed will be designed by the Course Director to suit the issue at hand.

Grounds for “Fail”: You will receive a grade of "Fail" if the requirements for passing the course have not been met. Please refer to the Grading Policy for the impact of the "Fail" grade to the transcript.