

630I Cardiac Care Unit

This rotation is currently not accepting international students.

Course Name Cardiac Care Unit
Course Director Pranav Patel, MD

Elective at a Glance		
Available to: [] UCI MS3 students [X] UCI MS4 students [] Extramural Students		
Duration: 2 or 4 weeks	Number of Students: 1	Grading: H / P / F
Periods available: Throughout the year		

1. Course Director, Coordinator and General Administrative Information

FACULTY AND STAFF

Name	Office Location	Phone	Email
Course Director: Pranav Patel, MD	333 City Blvd, Ste. 400, Orange, CA 92868	714-456-3868	pranavp@hs.uci.edu
Course Coordinator: Tracy Nakata	333 City Blvd, Ste. 400, Orange, CA 92868	714-456-3868	nakatat@hs.uci.edu
Course Coordinator: Lucy Gonzales	333 City Blvd, Ste. 400, Orange, CA 92868	714-456-3868	lucyg@hs.uci.edu

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 Providence, Rhode Island. After this he continued his training in Boston, Massachusetts, completing a Cardiology Clinical and Research Fellowship at the Harvard Medical School/Massachusetts General Hospital.

Dr. Patel is currently the Division Chief, Mary & Steve Wen Cardiovascular Division, Clinical Professor of Medicine & Biomedical Engineering and Director, Cardiac Catheterization Laboratory at UCI. He is board certified 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.

Tracy Nakata and Lucy Gonzales are the course coordinators.

INFORMATION FOR THE FIRST DAY

Who to Report to First Day: Ask for the CCU Attending or Fellow. Tracy or Lucy will send you an email with your course packet with instructions one week before your rotation starts.

Location to Report on First Day: CCU located on the 7FL (7200) of Douglas Hospital at UCI Medical Center, 101 The City Drive South, 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: Throughout the year

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 Lucy Gonzales at lucyg@hs.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. 630I, Smith, Request for appointment)

2. Course Objectives and Program Objective Mapping

The following are the learning objectives for the 630I 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.

Course Objective	Mapped UCI School of Medicine Program Objective	Sub Competency	Core Competency
Demonstrate the ability to perform comprehensive history and physical examinations.	A-1. Knowledge of the structure and function of the major organ systems, including the molecular, biochemical and cellular mechanisms for maintaining homeostasis	Structure and Function of Organ Systems	Knowledgeable
Demonstrate the ability to formulate differential diagnoses and therapeutic options.	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 pace making, 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 resident every fourth night, to be arranged at the start of the elective.	D-2. A commitment to patient care and to the well-being of patients and colleagues	Patient Care	Dutiful

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.