

# 630B Heart Station

The course is available to UCI students only.

**Course Name** Heart Station

**Course Director** Jin Kyung Kim, MD, PhD

Elective at a Glance		
<b>Available to:</b> <input checked="" type="checkbox"/> UCI MS3 students <input checked="" type="checkbox"/> UCI MS4 students <input type="checkbox"/> Extramural Students		
<b>Duration:</b> 2 weeks	<b>Number of Students:</b> 2 per rotation	<b>Grading:</b> H / P / F
<b>Periods available:</b> Throughout the Year		

## 1. Course Director, Coordinator and General Administrative Information

### FACULTY AND STAFF

Name	Office Location	Phone	Email
Director: Jin Kyung Kim, MD PhD	City Tower, Ste. 400	714-456-5397	<a href="mailto:jkim13@uci.edu">jkim13@uci.edu</a>
Course Coordinator: Tracy Nakata	333 City Blvd, Ste. 400, Orange, CA 92868	714-456-3868	<a href="mailto:nakatat@hs.uci.edu">nakatat@hs.uci.edu</a>
Course Coordinator: Lucy Gonzales	333 City Blvd, Ste. 400, Orange, CA 92868	714-456-3868	<a href="mailto:lucyg@hs.uci.edu">lucyg@hs.uci.edu</a>

### DESCRIPTION

The Heart Station Elective at UCI Medical Center should provide a learning experience in ECG reading, ability to identify acute cardiac disorders, and indications, performance and interpretation of treadmill testing including pharmacological stress echocardiograms, stress nuclear testing such as thallium and sestamibi scans, and understand the basics of cardiac interventions such as coronary angiography and EP testing.

### PREREQUISITES

The third-year or fourth-year students enrolled in the undergraduate medical education program at UCI School of Medicine.

### RESTRICTIONS

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

### COURSE DIRECTOR

Dr. Kim has worked in higher education since 2007. She completed her MD-PhD training at the University of Rochester School of Medicine and Dentistry, residency in internal medicine at UCI, followed by post-graduate fellowship training in research and cardiovascular disease under the auspice of the fast-tracking American Board of Internal Medicine Research Pathway at UCI. She is Associate Professor of

Medicine at UCI School of Medicine and board-certified in Cardiovascular Disease, Adult Echocardiography, Cardiac CT, and Internal Medicine. Dr. Kim is Medical Director of the UCI echo lab where she oversees all adult cardiac noninvasive testing at UCI Health. Dr. Kim is involved in education of medical students, medicine residents, and cardiology fellows.

Tracy Nakata and Lucy Gonzales are the course coordinators

**INFORMATION FOR THE FIRST DAY**

**Who to Report to First Day:** Ask for the Stress or TEE 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:** Cardiac Diagnostic Center, Pavilion IV (Building 25), next to the Senior Center, at the UCI Medical Center, 101 The City Drive S, Orange, CA 92868.

**Time to Report on First Day:** 9:00 AM

**SITE:** UCI Medical Center

**DURATION:** 2 weeks

**Scheduling Coordinator:** UCI students please email [comsched@hs.uci.edu](mailto:comsched@hs.uci.edu) to make a scheduling appointment.

**Periods Available:** Throughout the year

**NUMBER OF STUDENTS ALLOWED:** 2 per rotation

**WHAT STUDENTS SHOULD DO TO PREPARE FOR THE COURSE**

Students should be prepared for this course by studying basic principles of ECG interpretation and observe cardiac procedures performed per patient needs.

**COMMUNICATION WITH FACULTY**

Questions about logistics should be directed to the Course Coordinator. Direct 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](mailto: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. 630B, Smith, Request for appointment)

## 2. Course Objectives and Program Objective Mapping

The following are the learning objectives for the 630B 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
Interpret and assess basic 12-lead ECG's, formulate differential diagnoses, and identify acute cardiac disorders such as myocardial infarction using an interactive ECG program and reading.	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
Become familiar with the recognition and basic management of various cardiac conditions such as congestive heart failure, ischemic heart disease and valvular heart disease.	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
Become familiar with different forms of noninvasive testing such as exercise stress echocardiograms, pharmacological stress echocardiograms, and stress nuclear testing such as thallium and sestamibi scans.	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

## 3. Course Resources

### TEXTS AND READINGS: SUGGESTED

- Dubin, Rapid Interpretation of EKG's
- Jane Huff - ECG Workout
- Marriott, Practical Electrocardiology
- Ellestad, Stress Testing
- Braunwald, Heart Disease
- Oh, Echocardiography

- Grossman, Cardiac Catheterization
- Perloff, Clinical Recognition of Congenital Heart Disease
- Gleicher, Cardiac Problems in Pregnancy
- Criley, Cardiology for the House Officer (highly recommended)
- Mann, Heart Failure: A Companion to Braunwald's Heart Disease
- Hosenpud and Greenberg, Congestive Heart Failure
- Kern, The Cardiac Catheterization Handbook

## **4. Major Exams, Assignments and Grading**

### **MAJOR ASSIGNMENTS AND EXAMS**

Interpretation of ECG packets

### **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.

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.

### **REMEDICATION**

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.