

630K Pulmonary MICU Critical Care Medicine at UCI Medical Center

This course satisfies the UCI requirement for ICU.
This course is available to UCI students only.

1. Course Director, Coordinator and General Administrative Information

FACULTY AND STAFF

Name	Office Location	Phone	Email
Director: Richard Lee, MD	City Tower, Ste. 400	174-456-6015	richaral@hs.uci.edu
Coordinator: Kelly Fulford	101 the city drive south., bldg 22A room 2108 Orange, CA 92868	714-456-6015	kfulford@hs.uci.edu

DESCRIPTION

This is a four-week rotation offered at UCI Medical Center, LBVA and Long Beach Miller's Children Hospital. ICU is offered in medicine, surgery and pediatrics. Students function as sub-interns, becoming integral members of the ICU team, and serve as primary caregivers under supervision.

PREREQUISITES

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

RESTRICTIONS

This course does not accept visiting students.

COURSE DIRECTOR

Dr. Lee is the course director for the 630K course.

Kelly Fulford is the course coordinator for the 630K course.

INFORMATION FOR THE FIRST DAY

Who to Report to on First Day: If you have questions regarding any details prior to or during your rotation, you should contact the critical care clerkship team at your chosen site.

Location/Time to Report on First Day: MICU team room 74 Corridor Douglas
Hospital 7th Floor

SITE: UCI Medical Center

DURATION: 4 weeks

Scheduling Coordinator: UC Irvine students please email comsched@hs.uci.edu to make a scheduling appointment

Periods Available: every 4 weeks

NUMBER OF STUDENTS ALLOWED: 2 per rotation block

WHAT STUDENTS SHOULD DO TO PREPARE FOR THE COURSE

Clinical Responsibilities of the Student: Students function as sub-interns, becoming integral members of the ICU team and serve as primary care givers under supervision

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 kfulford@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. XXX, Smith, Request for appointment)

2. Course Objectives and Program Objective Mapping

The following are the learning objectives for the 630K 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.

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Course Objective	Mapped UCI School of Medicine Program Objective	Sub Competency	Core Competency
Assess patients' overall status – the ABC's.	A-3. Knowledge of basic clinical skills required to meet the skills objectives, including interviewing, physical diagnosis, communication and clinical reasoning processes	Structure and Function of Organ Systems	Knowledgeable
Improve basic skills in chest radiograph review, intravenous and arterial cannulation, order writing and oral case presentation.	B-3. The ability to articulate a cogent, accurate assessment and plan, and problem list, using diagnostic clinical reasoning skills in all the major disciplines	Patient Management	Skillful
Interpret and manage hemodynamic variables.	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
	B-5. The ability to practice effective preventive medicine by identifying, addressing and advocating for strategies to maintain health and well-being, to identify and treat disease early where appropriate and to advise on lifestyle practices	Patient Management	Skillful
Interpret normal and abnormal ECGs.	A-2. Knowledge of the pathogenesis of diseases, interventions for effective treatment,	Disease Pathogenesis and Treatment	Knowledgeable

	<p>and mechanisms of health maintenance to prevent disease</p> <p>B-5. The ability to practice effective preventive medicine by identifying, addressing and advocating for strategies to maintain health and well-being, to identify and treat disease early where appropriate and to advise on lifestyle practices</p>	Patient Management	Skillful
Assess adequacy of ventilation/oxygenation and treat dysfunction.	<p>A-2. Knowledge of the pathogenesis of diseases, interventions for effective treatment, and mechanisms of health maintenance to prevent disease</p> <p>B-5. The ability to practice effective preventive medicine by identifying, addressing and advocating for strategies to maintain health and well-being, to identify and treat disease early where appropriate and to advise on lifestyle practices</p>	Disease Pathogenesis and Treatment	Knowledgeable
	<p>B-5. The ability to practice effective preventive medicine by identifying, addressing and advocating for strategies to maintain health and well-being, to identify and treat disease early where appropriate and to advise on lifestyle practices</p>	Patient Management	Skillful
Understand fluid, electrolyte and acid-base management.	<p>A-2. Knowledge of the pathogenesis of diseases, interventions for effective treatment, and mechanisms of health maintenance to prevent disease.</p>	Disease Pathogenesis and Treatment	Knowledgeable

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	B-5. The ability to practice effective preventive medicine by identifying, addressing and advocating for strategies to maintain health and well-being, to identify and treat disease early where appropriate and to advise on lifestyle practices.	Patient Management	Skillful
Understand blood product transfusion indications and concerns.	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 Skillful
	B-5. The ability to practice effective preventive medicine by identifying, addressing and advocating for strategies to maintain health and well-being, to identify and treat disease early where appropriate and to advise on lifestyle practices.	Patient Management	
Recognize and manage shock and shock states.	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 Skillful
	B-5. The ability to practice effective preventive medicine by identifying, addressing	Patient Management	

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	and advocating for strategies to maintain health and well-being, to identify and treat disease early where appropriate and to advise on lifestyle practices.		
Recognize and manage single and multiple organ dysfunction.	<p>A-2. Knowledge of the pathogenesis of diseases, interventions for effective treatment, and mechanisms of health maintenance to prevent disease</p> <p>B-5. The ability to practice effective preventive medicine by identifying, addressing and advocating for strategies to maintain health and well-being, to identify and treat disease early where appropriate and to advise on lifestyle practices</p>	<p>Disease Pathogenesis and Treatment</p> <p>Patient Management</p>	<p>Knowledgeable</p> <p>Skillful</p>
Understand inherent post-operative changes and problems.	<p>A-2. Knowledge of the pathogenesis of diseases, interventions for effective treatment, and mechanisms of health maintenance to prevent disease</p> <p>B-5. The ability to practice effective preventive medicine by identifying, addressing and advocating for strategies to maintain health and well-being, to identify and treat</p>	<p>Disease Pathogenesis and Treatment</p> <p>Patient Management</p>	<p>Knowledgeable</p> <p>Skillful</p>

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	disease early where appropriate and to advise on lifestyle practices		
Perform sedation and pain management skills.	<p>A-2. Knowledge of the pathogenesis of diseases, interventions for effective treatment, and mechanisms of health maintenance to prevent disease</p> <p>B-5. The ability to practice effective preventive medicine by identifying, addressing and advocating for strategies to maintain health and well-being, to identify and treat disease early where appropriate and to advise on lifestyle practices</p>	<p>Disease Pathogenesis and Treatment</p> <p>Patient Management</p>	<p>Knowledgeable</p> <p>Skillful</p>
Understand social and ethical aspects of critically ill patient care and end-of-life issues.	C-3. Sensitivity and awareness of diverse cultures, health beliefs and social factors impacting patient health and illness	Cultural and Social Awareness	Altruistic
Understand ventilator management and modes.	<p>A-2. Knowledge of the pathogenesis of diseases, interventions for effective treatment, and mechanisms of health maintenance to prevent disease</p> <p>B-5. The ability to practice effective preventive medicine by identifying, addressing and advocating for strategies to maintain</p>	<p>Disease Pathogenesis and Treatment</p> <p>Patient Management</p>	<p>Knowledgeable</p> <p>Skillful</p>

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	health and well-being, to identify and treat disease early where appropriate and to advise on lifestyle practices		
Perform ACLS.	<p>A-2. Knowledge of the pathogenesis of diseases, interventions for effective treatment, and mechanisms of health maintenance to prevent disease</p> <p>B-5. The ability to practice effective preventive medicine by identifying, addressing and advocating for strategies to maintain health and well-being, to identify and treat disease early where appropriate and to advise on lifestyle practices</p>	<p>Disease Pathogenesis and Treatment</p> <p>Patient Management</p>	<p>Knowledgeable</p> <p>Skillful</p>
Perform ATLS.	<p>A-2. Knowledge of the pathogenesis of diseases, interventions for effective treatment, and mechanisms of health maintenance to prevent disease</p> <p>B-5. The ability to practice effective preventive medicine by identifying, addressing and advocating for strategies to maintain health and well-being, to identify and treat disease early where appropriate and to</p>	<p>Disease Pathogenesis and Treatment</p> <p>Patient Management</p>	<p>Knowledgeable</p> <p>Skillful</p>

	advise on lifestyle practices		
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3. Course Resources

TEXTS AND READINGS: SUGGESTED

Your syllabus is the FCCS, the main text provided by the Society of Critical Care Medicine for medical students. You are required to study it during your 4-week rotation, discuss any questions with your faculty, and will be tested based on it on your end-of-rotation written MCQ exam. Contact your site clerkship coordinator to collect the book at the beginning of the rotation, and make sure you return it at the end. For additional recommended reading please see:

- Handbook of Critical Care - Jesse B. Hall (September 2009)
- Critical Care Medicine: The Essentials - John J. Marini and Arthur P Wheeler (November 2009)
- The Washington Manual of Critical Care - Marin H Kollef, Timothy J Bedient, Warren Isakow, and Chad A Witt (October 2007)
- Irwin and Rippe's Intensive Care Medicine 6th edition - Richard S Irwin and James M. Rippe (August 2007)
- The ICU Book, 3rd Edition - Paul L. Marino (September 2006)

4. Major Exams, Assignments and Grading

Official Grading Policy:

A passing grade on the final evaluation requires:

- Daily attendance at rounds
- Attendance and participation in lectures, discussion, and clinical assignments
- Satisfactory scores for aptitudes listed in the clinical evaluations

Students can be eligible for Honors if they receive a satisfactory score on all clinical evaluation categories, have perfect attendance, show exceptional skills in number of clinical categories and prepare a relevant presentation.

In addition special attention will be paid to:

- Ethical behavior
- Reliability & dependability
- Ability to work with peers and under faculty direction
- Relationships with nurses and other hospital personnel
- Appropriate use of laboratory tests
- Quality of verbal & written communication skills

- Professional personal appearance
- Use & knowledge of medical literature
- Knowledge of student's own limitations

Clinical Performance Evaluations: The clinical evaluations are based on motivation, knowledge of clinical medicine, clinical skills, and personal characteristics. Medical student core competencies include Knowledge, Patient Care, Practice-Based Learning, Interpersonal & Communication Skills. Professionalism, Systems-Based Practice. Your clinical performance will include input from your assigned faculty members and house officers. They use a standardized feedback format that assesses for knowledge, skills, and attitudes. They will give written feedback on this form. Comments will be made available for your Dean's Letter.

Attendance: A passing grade requires daily attendance at rounds, attendance and participation in lectures, discussions, and clinical assignments, as well as satisfactory scores for the categories listed in the clinical evaluations. Absences will be excused only upon approval by the course director. With prior notification, you are allowed a maximum of three (3) days of absence during your 4- week rotation. In some cases you may need to use a vacation voucher. 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.

Presentation: In order to be considered for an Honor's grade students are expected to prepare a relevant presentation. (ask your attending how long and what is expected for the presentation).

Any questions or issues regarding your critical care clerkship grade should be presented to your course director and the grading faculty.

Remediation

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

Incompletes

You will not be issued a grade until all elements of the course have been completed.

Some Suggestions:

- For all of us, the ICU is the best ILU (Intensive Learning Unit). The diversity and intensity of pathology to which you are exposed is incomparable to any other

clinical setting. You are privileged to take care of the sickest patients in the hospital. Cherish the experience, and do your best to make the most of it.

- Your faculty are there to make your learning experience as meaningful and effective as possible. If there are problems hampering your growth, approach them.
- Show enthusiasm and interest; you will be taken seriously, and will witness reciprocal enthusiasm.
- Try to carry 2-3 patients at each time. You will learn more if you expose yourself to a variety of pathophysiologic processes, so work with your team to try and avoid repetitive cases.
- Every patient on the team is “your patient”. Pay attention to all the patients on rounds. You will multiply your experience.
- Offer to do short 5-10 minute presentations on topics relevant to your patients. The best way to master a topic is to teach it.

Attitudes: You are required, at all times, to show:

- Competence
- Compassion
- Professionalism
- Integrity
- Sensitivity
- Respect
- Commitment

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 in 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.