605B Surgical Intensive Care Unit
This course satisfies the ICU requirement for UC Irvine students.
This rotation is not accepting international students

Course Name: Surgical Intensive Care Unit
Course Director: Maria Shier, MD

Academic Year: 2020-2021

1. Course Director, Coordinator and General Administrative Information

FACULTY AND STAFF
Name          Office Location                  Phone           Email
Director: Maria Shier, MD  LBVAMC  5901 E. 7th Street, Building 126, 3rd Floor, CCCU, SICU workroom, Long Beach CA 90822 714-456-6882 maria.shier@va.gov
Coordinator: Kelly Fulford  UC Irvine Medical Center – 101 The City Drive South, Building 22A, Room 2108, Orange, CA 92868 714-456-6882 kfulford@uci.edu

DESCRIPTION
This is a four week rotation offered at UC Irvine Medical Center, LBVAMC 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
UC Irvine students must have successfully completed the 1st, 2nd, and 3rd year curriculum or have completed the 3rd year clerkship within the same area as the ICU they are enrolling in.

RESTRICTIONS
This rotation is not accepting international students
COURSE DIRECTOR
Dr. Maria Shier is a critical care medicine specialist. She received her medical degree from Albany Medical College and has been in practice for more than 25 years.

Kelly Fulford is the course coordinator for 605B 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: 7:00AM LBVAMC, Bldg. 126, 3rd floor ICU

SITE: UC Irvine Medical Center, LBVA and Long Beach Miller's Children Hospital

DURATION: 4 weeks

Scheduling Coordinator: UC Irvine students please call (714) 456-8462 to make a scheduling appointment.

Periods Available: Throughout the year

NUMBER OF STUDENTS ALLOWED
2-3 per rotation

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

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

Call Schedule of the Student: Students are expected to work the same shifts as their team.

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@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 605B 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>
</tr>
</thead>
<tbody>
<tr>
<td>Assess patients’ overall status – the ABC's.</td>
<td>A-3. Knowledge of basic clinical skills required to meet the skills objectives, including interviewing, physical diagnosis, communication and clinical reasoning processes</td>
<td>Structure and Function of Organ Systems</td>
<td>Knowledgeable</td>
</tr>
<tr>
<td>Improve basic skills in chest radiograph review, intravenous and arterial cannulation, order writing, and oral case presentation.</td>
<td>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</td>
<td>Patient Management</td>
<td>Skillful</td>
</tr>
<tr>
<td>Interpret and manage hemodynamic variables</td>
<td>A-2. Knowledge of the pathogenesis of diseases, interventions for effective treatment, and mechanisms of health maintenance to prevent disease</td>
<td>Disease Pathogenesis and Treatment</td>
<td>Knowledgeable</td>
</tr>
</tbody>
</table>

Rev. 05/29/2020
<table>
<thead>
<tr>
<th><strong>Patient Management</strong></th>
<th><strong>Skillful</strong></th>
<th><strong>Disease Pathogenesis and Treatment</strong></th>
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<tr>
<td>Assess adequacy of ventilation/oxygenation and treat dysfunction.</td>
<td>A-2. Knowledge of the pathogenesis of diseases, interventions for effective treatment, and mechanisms of health maintenance to prevent disease</td>
<td>Knowledgeable</td>
</tr>
<tr>
<td>Interpret normal and abnormal ECGs.</td>
<td>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</td>
<td>Skillful</td>
</tr>
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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.
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<th>Understand fluid, electrolyte, and acid-base management.</th>
<th>A-2. Knowledge of the pathogenesis of diseases, interventions for effective treatment, and mechanisms of health maintenance to prevent disease</th>
<th>Disease Pathogenesis and Treatment</th>
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<td>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</td>
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<th>Understand blood product transfusion indications and concerns.</th>
<th>A-2. Knowledge of the pathogenesis of diseases, interventions for effective treatment, and mechanisms of health maintenance to prevent disease</th>
<th>Disease Pathogenesis and Treatment</th>
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<td>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</td>
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<td>Recognize and manage shock and shock states.</td>
<td>A-2. Knowledge of the pathogenesis of diseases, interventions for effective treatment, and mechanisms of health maintenance to prevent disease</td>
<td>Disease Pathogenesis and Treatment</td>
<td></td>
</tr>
<tr>
<td>Recognize and manage single and multiple organ dysfunction.</td>
<td>A-2. Knowledge of the pathogenesis of diseases, interventions for effective treatment, and mechanisms of health maintenance to prevent disease</td>
<td>Disease Pathogenesis and Treatment</td>
<td></td>
</tr>
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**Knowledgeable**

**Skillful**
<table>
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<tr>
<th>Understand inherent post-operative changes and problems.</th>
<th>A-2. Knowledge of the pathogenesis of diseases, interventions for effective treatment, and mechanisms of health maintenance to prevent disease</th>
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<td>Perform sedation and pain management skills.</td>
<td>A-2. Knowledge of the pathogenesis of diseases, interventions for effective treatment, and mechanisms of health maintenance to prevent disease</td>
<td>Disease Pathogenesis and Treatment</td>
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<tr>
<td>Understand social and ethical aspects of critically ill patient care and end-of-life issues.</td>
<td>C-3. Sensitivity and awareness of diverse cultures, health beliefs and social factors</td>
<td>Cultural and Social Awareness</td>
<td>Altruistic</td>
</tr>
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<td>Understand ventilator management and modes.</td>
<td>A-2. Knowledge of the pathogenesis of diseases, interventions for effective treatment, and mechanisms of health maintenance to prevent disease</td>
<td>Disease Pathogenesis and Treatment</td>
<td>Knowledgeable</td>
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<td>Perform ACLS.</td>
<td>A-2. Knowledge of the pathogenesis of diseases, interventions for effective treatment, and mechanisms of health maintenance to prevent disease</td>
<td>Disease Pathogenesis and Treatment</td>
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Perform ATLS.

A-2. Knowledge of the pathogenesis of diseases, interventions for effective treatment, and mechanisms of health maintenance to prevent disease

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

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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. Contact Kelly Fulford, kfulford@uci.edu to collect the book at the beginning of the rotation, and make sure you return it at the end.

**TEXTS AND READINGS: SUPPORTING AND REVIEW**
- Handbook of Critical Care 3rd edition - Jesse B. Hall (September 2009)
- Irwin and Rippe's Intensive Care Medicine 8th edition - Richard S Irwin and James M. Rippe (December 2017)
- The ICU Book, 4th Edition - Paul L. Marino (Octoberber 2013)
4. Major Exams, Assignments and Grading

MAJOR ASSIGNMENTS AND EXAMS
Simulation: There will be a mandatory Critical Care Simulation Session conducted from 1 to 4 PM at the UC Irvine Medical Education Simulation Center. It is usually scheduled on a Tuesday or Thursday afternoon on the 2nd or 3rd week of your rotation. You will receive an email informing you about the exact date and time. Please make sure that you have familiarized yourself with the sections in the FCCS book pertaining to shock, hemodynamic failure and monitoring, treatment of shock and vasopressors, causes, types and diagnosis of respiratory failure, and initiation and basics of mechanical ventilation. Familiarity with these topics will ensure that you have a more productive and interactive simulation session. The simulation session is located at:
Medical Education,
Building 836 Irvine, CA 92697-4089
Phone: 949.824.8835
A map can be found at: http://www.medsim.uci.edu/contact01.html

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.

GRADING
Your final grade is a composite based on your clinical evaluations, participation and involvement. The clinical evaluations are based on motivation, knowledge of clinical medicine, clinical skills, and personal characteristics. 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 3/31/2016 the clinical evaluations. Absences will be excused only upon approval by the course director. Comments may be made available for your Dean’s Letter. Students can be eligible for Honors if they receive a satisfactory score on all clinical evaluation categories, have perfect attendance, and show exceptional skills in a number of clinical categories and prepare a relevant presentation. Students who
receive a failing grade will meet with the course director to discuss options for re-evaluation that may include additional time in the ICU.

Attendance: You are expected to participate as a team member, every weekday in addition to one day every weekend, other than the last weekend. You are encouraged to take call with one of your team interns; you should coordinate the details regarding hours of attendance and the call schedule with your site clerkship director and ICU faculty.

Absence: With prior notification, you are allowed a maximum of three (3) days of absence during your 4-week rotation. 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.

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.
**UCI School of Medicine**  
Curriculum and Educational Policy Committee

**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.