

# 630G Hematology & Medical Oncology

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

### FACULTY AND STAFF

Name	Office Location	Phone	Email
Director: Edward Nelson, MD FACP	101 The City Dr. S., Bldg 63, Ste. 400, Zot 4061 Orange, CA 92868	714-456-5153	enelson@uci.edu
Coordinator: Christopher Song	101 The City Dr. S. Bldg 63, Ste. 400, Zot 4061 Orange, CA 92868	714-456-6589	csong3@uci.edu

### COURSE DESCRIPTION

During the Hematology & Medical Oncology elective students act as consultants to patients with hematologic or oncologic problems on Teams L (hematology inpatient service) and S (solid tumor consult service), at UCI Medical Center and are supervised by the Hem/Onc Fellow and Attending faculty member. Attending rounds are held daily and are for decision-making in patient management. The rounds include presentation of all patients on these services. The student sees these patients under guidance of the Hem/Onc Fellow. These patients have a wide variety of hematologic and oncologic problems. Students have the opportunity to follow Hem/Onc inpatients, bone marrow transplant patients, consultations and outpatient visits.

**DEPARTMENT:** Internal Medicine, Division of Hematology/Oncology

### PREREQUISITES

This course is intended for third- and fourth-year students enrolled in the undergraduate medical education program at UCI School of Medicine. UCI students must have successfully completed the basic science curriculum and their Inpatient and Ambulatory Medicine Clerkship.

### RESTRICTIONS

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

### COURSE DIRECTOR

**Dr. Edward Nelson** has worked in higher education since 2000. He received his BS in chemistry from Willamette University in 1977. After an intervening period of volunteer activity (US Peace Corps) he obtained his MD degree in 1986 with honors from Oregon Health Sciences University and was selected for Alpha Omega Alpha as a junior. He went on to his Internal Medicine Residency at the prestigious Strong Memorial Hospital, University of Rochester program. He completed his Medical Oncology Fellowship at Stanford University, School of Medicine and continued as the 1992 Pfizer Immunology Research Fellow for a three-year research fellowship through 1995. He was Senior Scientist & Head of the Immunotherapy Laboratory at the National Cancer Institute-Frederick Research and Development Center (NCI-FCRDC) for 6 years prior to coming to UCI in 2000. He was promoted from assistant professor to associate professor with tenure in 2008 and to full professor in 2018. Dr. Nelson is an established physician scientist and leader within the School of Medicine. His research has involved multi-disciplinary teams and projects that have yielded important insights. He is clinically active, conducts translational and clinical studies, and importantly has led the Division of Hematology/Oncology as its division chief since August 2010. He has served as the Associate Director for Cancer Research Education & Training Coordination (CRTEC), Chao Family Comprehensive Cancer Center since 2017.

Dr. Nelson's research focuses on tumor immunology and identifying new ways for the immune system to control tumor growth. His research spans the spectrum from basic laboratory investigations to clinical and translational trials. Importantly, as the biomedical field has evolved with greater emphasis on team science, Dr. Nelson has an established track record of successful multi- and trans-disciplinary research projects.

#### **COURSE COORINDATOR**

**Christopher Song** is the course coordinator for the 630G course. He received his Bachelor's degree in business economics, with a minor in education from UCI. He has served as residency and fellowship coordinator for various UCI Departments and joined the Hematology/Oncology Division in 2018 as the fellowship coordinator and education programs assistant analyst.

#### **INSTRUCTING FACULTY:**

Elizabeth A. Brém, MD

May T. Cho, MD

Warren A. Chow, MD

Stefan O. Ciurea, MD

Paul H. Coluzzi, MD, MPH

Farshid Dayyani, MD, PhD

Angela G. Fleischman, MD, PhD

John P. Fruehauf, MD, PhD

Deepa Jeyakumar, MD

Matthew J. Keating, MD

Yulian Khagi, MD

Piyanuch Kongtim, MD, PhD

Fa-Chyi Lee, MD  
Lisa X. Lee, MD  
Khosrow Mahdavi, MD  
Nataliya Mar, MD  
Rita S. Mehta, MD  
Justin Moyers, MD  
Rupali Nabar, MD  
Misako Nagasaka, MD, PhD  
Andreea Nanci, MD, MBA  
Edward L. Nelson, MD FACP  
Susan O'Brien, MD  
Sai-hong Ignatius Ou, MD, PhD  
Zahra Pakbaz, MD  
Ritesh Parajuli, MD  
Lauren C. Pinter-Brown, MD  
Arash Rezazadeh Kalebasty, MD  
Jennifer B. Valerin, MD, PhD  
Richard Van Etten, MD, PhD  
Jason Zell, DO, MPH

**HEMATOLOGY/ONCOLOGY FELLOWS:**

**First-Year Fellows:**

Sami Dwabe, MD  
Nghia (Michael) Pham, MD  
Brian Warnecke, DO  
Omid Yazdanpanah, MD

**Second-Year Fellows:**

Jeffrey Ahn, MD  
Zhaohui (Ann) Arter, MD  
Nellie Nafissi, MD  
Kevin Shieh, MD

**Third-Year Fellows:**

Yen Cao, MD  
Sharmeen Mahmood, DO  
Chimezie Ubbaonu, MD  
Elham Vosoughi, MD

**INFORMATION FOR THE FIRST DAY**

Whom to report to on the first day: Christopher Song,  
Education Programs Assistant Analyst

Location to report on the first day: UCI Medical Center

101 The City Drive South  
Building 63 (200 S. Manchester Ave.), Suite 400,  
Orange, CA 92868  
Or  
Report directly to the respective rotation location

**Time to report on the first day:** 8:00 a.m.

**SITE:** UCI Medical Center, 101 The City Drive South, Orange, CA 92868

**DURATION:** 2-4 weeks

**SCHEDULING COORDINATOR:** UCI students, please email [comsched@uci.edu](mailto:comsched@uci.edu) or call 714-456-8462 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:**

Two (includes intra and extramural) – additional students require approval from the Elective Director and Site Coordinator.

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

Satisfactorily completed the Medicine Core Clerkship

**CLINICAL RESPONSIBILITIES OF THE STUDENT:** Follow and consult patients under the supervision of intern, resident, fellow and attending.

**PATIENT CARE RESPONSIBILITIES:** Supportive of intern, resident, fellow and attending in care of patients.

**CALL SCHEDULE OF THE STUDENT:** None

**PROCEDURES THE STUDENT WILL LEARN:**

- Bone marrow aspirate/biopsy
- Lumbar puncture for intrathecal chemotherapy

**PERCENTAGE OF TIME IN AMBULATORY SETTING:** May vary from 10-40 percent depending upon the student's interest.

**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, by appointment only. Please email [csong3@uci.edu](mailto:csong3@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 630G 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.

<b>Course Objective</b>	<b>Mapped UCI School of Medicine Program Objective</b>	<b>Sub Competency</b>	<b>Core Competency</b>
Be knowledgeable about a wide variety of acute medical problems of cancer patients.	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
Be experienced in the evaluation and treatment of patients with primary Hematologic or Oncologic disease.	A-3. Knowledge of basic clinical skills required to meet the skills objectives, including interviewing, physical diagnosis, communication and clinical reasoning processes; B-1. The ability to competently conduct a medical interview and counseling to take into account patient health beliefs, patient agenda and the need for comprehensive medical and psychosocial assessment;	Evaluation and Treatment of Patients; Conducting a Medical Interview	Knowledgeable and Skillful
Be familiar with hematologic	A-2. Knowledge of the pathogenesis of diseases,	Disease Pathogenesis and Treatment	Knowledgeable

complications of other illnesses in patients seen on the consult service.	interventions for effective treatment, and mechanisms of health maintenance to prevent disease;		
Be proficient in physical examination; clinical differential diagnosis; interpretation of abnormal laboratory tests related in particular to hepatic, renal, cardiac and pulmonary functions; interpretation of peripheral blood and bone marrow smear findings; surgical pathology review; roentegenographic findings; and interpretation of radionuclide scans, sonograms, and CT scans.	B-2. The ability to competently perform a complete and organ-system-specific examination including a mental health status examination; B-4. The ability to search medical literature, including electronic databases, and to locate and interpret up-to-date evidence to optimize patient care.	Perform Complete Examination; Search Medical Literature	Skillful
Demonstrate professionalism by attending assigned rounds, conferences and lectures.	C-2. Professional behaviors reflecting compassion and respect for patient privacy, altruism and a commitment to comprehensive, holistic medical care.	Demonstrating Professionalism and Commitment.	Altruistic

**KEY TOPICS:** Treatment of neutropenic fever, oncologic emergencies, benign hematology, leukemia and solid tumors

**COMPETENCIES:**

- Physical examination in oncology patients
- Knowledge concerning treatment decisions for cancer patients
- Recognition of oncologic emergencies
- Care of the neutropenic patient

**Attitudes and commitments:**

- Compassion in dealing with cancer patients and their families
- Academic inquisitiveness

**EDUCATIONAL ACTIVITIES**

Mondays	8 a.m. - 5 p.m.
Tuesdays	8 a.m. - 5 p.m.; 5:30 p.m. - 6:30 p.m. (didactic lectures, Journal Club or Morbidity & Mortality conference)
Wednesday	8 a.m. - 5 p.m.
Thursdays	8 a.m. - 5 p.m.
Fridays	7 a.m. - 8 a.m. (didactic lectures); 8 a.m. - 5 p.m.
Saturdays	An occasional morning

**3. Course Resources**

**TEXTS AND READINGS: SUGGESTED**

- Hematology, Williams et al.
- Cancer-Principles & Practice of Oncology, Devita et al.
- Clinical Hematology, Wintrobe

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

**MANDATORY SESSIONS**

**CONFERENCE/LECTURE/SMALL GROUP SESSIONS:** Although there is no standardized lecture series for this rotation, all students will participate in small group discussions, core lecture series, Journal Club lecture, Morbidity and Mortality conference lectures, and tumor board discussions.

Session Title	Location
Journal Club Conference (CME)	Virtual - Zoom Teleconference
Morbidity and Mortality (CME)	Virtual - Zoom Teleconference
Tumor Board Conference (CME) - Various	Virtual - Zoom Teleconference

**Course Hours - Weekly Summary:**

2.0	Case-based
5.0	Conference
5.0	Clinic
30.0	Inpatient/ward
2.0	Lecture

10.0	Other: reading the medical literature and writing
<b>54.0</b>	<b>Total</b>

**CONTENT THEME INTEGRATION:**

- Alternative Medicine
- Biostatistics
- Death and Dying
- Ethics
- Evidence-Based Medicine
- Family Violence/Abuse
- Nutrition
- Palliative Care
- Pain management

**MAJOR ASSIGNMENTS AND EXAMS**

To receive a grade of Pass or Honors, the student will be expected to formulate and successfully present to the Attending and Team a short (10-15 min) educational/didactic session on a topic identified by the Attending, which has relevance to one or more clinical situations present in the patients of the Team.

**GRADING**

Medical Students are graded using the following scale: Honors (H), Pass (P), Fail (F), and Incomplete (I). The final grade is submitted on the standard UCI elective form. The student is evaluated by attendings and residents in the areas of knowledge base; ability to perform a history and physical exam; case presentations; clinical judgment; relationship with physicians, other medical personnel and patients. If the student fails the elective, a grade of "F" is permanently recorded on his/her transcript.

The student can repeat the course for a second grade; however, the "F" cannot be removed from the transcript. 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 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.

### **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.