650A Introduction to Ophthalmology

Course Name: Introduction to Ophthalmology
Course Director: Ken Lin, MD, PhD

Academic Year: 2020-2021

1. Course Director, Coordinator and General Administrative Information

FACULTY AND STAFF

Name: Director: Ken Lin, MD, PhD
Office Location: 850 Health Sciences Rd.
Phone: 949-824-3476
Email: linky@uci.edu

Name: Coordinator: Alexandria Castro-Spencer
Office Location: 850 Health Sciences Rd.
Phone: 949-824-3476
Email: castrosp@uci.edu

DESCRIPTION
This introductory elective consists of exposure to general ophthalmology clinics as well as subspecialty clinics in retina, glaucoma, pediatrics, neuro-ophthalmology, oculoplastics, uveitis, and cornea.

PREREQUISITES
UCI students must have successfully completed the basic science curriculum to take the introductory elective. Extramural students must in their final year of undergraduate medical education at the time of their rotation.

RESTRICTIONS
This course is intended for 3rd and 4th-year students enrolled in the undergraduate medical education program at University of California, Irvine School of Medicine (UCISOM).

COURSE DIRECTOR
Dr. Lin completed his medical degree and a National Institutes of Health-sponsored doctoral degree in biophysics at Harvard Medical School in Boston. He completed a residency in ophthalmology at UCI School of Medicine’s Gavin Herbert Eye Institute (GHEI), where he served as chief resident. He also completed a glaucoma fellowship at the institute.
Lin’s clinical interests include optic nerve and aqueous outflow imaging. He has also been involved in the development and evaluation of several emerging glaucoma and cataract surgical devices.

Alexandria Castro-Spencer is the course coordinator for 650A and 650B courses. Alexandria completed her undergraduate education at UCI and has worked with GHEI since 2018.

INFORMATION FOR THE FIRST DAY
Prior to your first day, contact your supervising resident for information regarding the best place to initially meet. Meeting times may vary based on location and resident’s daily schedule.

SITE: UCI Medical Center & Long Beach VA

DURATION: 2 or 4 weeks*

***If you are interested in applying for honors for this elective, a 4-week rotation is required. No exceptions. Contact coordinator for additional information.

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

PERIODS AVAILABLE: This course is offered throughout the calendar year.

NUMBER OF STUDENTS ALLOWED: Each location is able to accommodate two (2) students.

WHAT STUDENTS SHOULD DO TO PREPARE FOR THE COURSE:
Review items list under Course Resources and introductory information packet online or as emailed to them by Coordinator.

COMMUNICATION WITH FACULTY
Questions about logistics, comments, or concerns about the course can be directed to the Course Coordinator. Course Coordinator will direct emails to Course Director as needed. Contact information and office location are at the beginning of this document.

The Course Director is also available to meet in person. Please email castrop@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 650A 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>
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<tr>
<td>To provide the students who will practice in the diverse areas of medicine, especially primary care, a core of information which will allow them to diagnose and manage common ophthalmic problems, emphasizing appropriate referral and the avoidance of delays or omissions in proper eye care.</td>
<td>A-2. Knowledge of the pathogenesis of diseases, interventions for effective treatment, and mechanisms of health maintenance.</td>
<td>Disease Pathogenesis and Treatment</td>
<td></td>
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<td></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></td>
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<td></td>
<td>B-6. The ability to function effectively within the context of complexity and uncertainty in medical care.</td>
<td>Patient Management</td>
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<tr>
<td>To teach the essentials of the routine ophthalmic history and physical examination.</td>
<td>A-3. Knowledge of basic clinical skills required to meet the skills objectives, including interviewing, physical diagnosis, communication and</td>
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<td></td>
<td>Basic Clinical Skills</td>
<td>Knowledgeable</td>
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Knowledgeable

Skillful
<p>| To expose the student to the spectrum of systemic diseases with ocular manifestations and to scope and breadth of primary ocular disease. | 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 |
| B-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-4. The ability to search the medical literature, including electronic databases, and to locate and interpret up-to-date evidence to optimize patient care. | Evidence-Based Medicine | Skillful |
| To teach to the stunt the recognition and initial management of ocular injuries and emergencies. | B-3. The ability to articulate a cogent, accurate assessment and plan, and problem | Patient Management | Skillful |</p>
<table>
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<tr>
<th>A-5. Knowledge of medical practice, including health care economics and health systems impacting delivery and quality of patient care.</th>
<th>Medical Practice</th>
<th>Knowledgeable</th>
</tr>
</thead>
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<tr>
<td>C-3. Sensitivity and awareness of diverse cultures, health beliefs and social factors impacting patient health and illness.</td>
<td>Cultural and Social Awareness</td>
<td>Altruistic</td>
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<td>D-1. A commitment to lifelong learning and independently seeking new knowledge and skills in their own recognized areas of learning deficit.</td>
<td>Lifelong Learning</td>
<td>Dutiful</td>
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<tr>
<td>B-6. The ability to function effectively within the context of complexity and uncertainty in medical care.</td>
<td>Professionalism</td>
<td>Skillful</td>
</tr>
<tr>
<td>C-2. Professional behaviors reflecting compassion and respect for patient privacy, altruism and a commitment to comprehensive, holistic medical care.</td>
<td>Medical Practice</td>
<td>Altruistic</td>
</tr>
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To introduce the students to the profession of ophthalmology as a branch of the practice of medicine.
3. Course Resources

TEXTS AND READINGS: SUPPORTING AND REVIEW
- Ophthalmology for the Primary Care Physician Ed. Palay, David A. & Krachmer, Jay H., Mosby, 1997. Available at UCI Bookstore Special orders from Amazon.com approximately $60.00
- Eye Modules on Medskl.com [https://medskl.com/course/detail/ophthalmology](https://medskl.com/course/detail/ophthalmology)

4. Major Exams, Assignments and Grading

MANDATORY SESSIONS

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<tr>
<th>Session Title</th>
<th>Location</th>
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<tr>
<td>Didactics</td>
<td><em>Gavin Herbert Eye Institute,</em> Cavanaugh Conference Room B&lt;br&gt;<em>Wednesdays @ 1:30pm to 5:00pm</em></td>
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<tr>
<td>Grand Rounds</td>
<td><em>Gavin Herbert Eye Institute,</em> Cavanaugh Conference Room A&lt;br&gt;<em>email coordinator for dates</em></td>
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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”: Students interested in applying for honors are required to complete and submit a case study by the end of their rotation. All students, regardless of rotation length, will be graded exclusively on their performance in the clinic and/or operating room.

To receive a grade of Honors, students must be enrolled in a 4-week rotation, complete and submit a case study, and 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.