

## OPHTHALMOLOGY

COURSE CODE:	MDR 860
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LENGTH OF ELECTIVE:	2 weeks (4 weeks with approval – see below)
PREREQUISITE:	None
NUMBER OF STUDENTS:	8 ( <b>minimum of 5</b> )
AVAILABLE:	2B, 4B & 8B (4 weeks approval – contact coordinator)
U.S. VISITING STUDENTS:	Yes
INTERVIEWING TIME:	Case-by-case scenarios
TYPE:	Clinical

***NOTE: ANY schedule changes involving ALL Ophthalmology rotations must be authorized by Isabel Perez (see above for contact information) before your schedule can be officially changed.***

### **Overview/Course Design:**

The **two week** clinical elective in ophthalmology is geared toward medical students with a particular interest in obtaining an **in depth** understanding of fundamental ophthalmology. Aspects of ophthalmology that are pertinent to the practice of internal medicine, neurology, pediatrics, family practice and other primary care specialties will also be taught. Students will rotate through the emergency room, operating room, and various subspecialty clinics at the Bascom Palmer Eye Institute where they will shadow attendings and housestaff. A comprehensive didactic course will be conducted concurrently during this two week block which includes interactive case based presentations. A final examination will be administered at the conclusion of the course. Students are also welcome to attend weekly grand rounds and fluorescein conferences, as well as daily resident lectures during the rotation.

An **additional two weeks** is offered for students considering ophthalmology as a career. These additional two weeks are intended as a clinical shadowing experience in which students will rotate through the emergency room, operating room, and all subspecialty clinics at the Bascom Palmer Eye Institute. All students wishing to be part of the four week course must have approval of the course coordinator.

### **Goals/Objectives:**

Students will learn how to perform a basic eye exam and gain competence using ophthalmic instruments. Students will be exposed to and participate in the care of patients with eye disorders.

Upon completion of this elective, the students will be able to:

- a. Differentiate indicators of when to refer patients to an ophthalmologist
- b. Perform an orderly eye examination, including proper use of the ophthalmoscope and different lenses.
- c. Evaluate ancillary ocular tests abnormalities (i.e. visual fields and optical coherence tomography)
- d. Evaluate pupil abnormalities.
- e. Learn the management of common ocular problems and emergencies (conjunctivitis, superficial foreign body, chemical burns, trauma, etc.).
- f. Examine a patient with red eye and initiate management when appropriate.
- g. Discuss types of cataracts
- h. Detect and describe disorders of ocular motility and describe prevention and treatment of amblyopia.

- i. Recognize different types of glaucoma – risk factors and management (medications/laser/surgery)
- j. Identify retinal pathology: retinal detachment, age-related macular degeneration and uveitis
- k. Be familiar with ocular changes in diabetes mellitus, hypertension, and optic neuropathy
- l. Demonstrate a professional and systematic approach in working with a patient with an ocular injury.
- m. Use the indirect ophthalmoscope, 90 D lens and 20D lens to evaluate the optic nerve and retina
- n. Use the slit lamp to examine the cornea and anterior segment of the eye

**Location**

Bascom Palmer Eye Institute

**Participating Faculty**

Faculty from the Department of Ophthalmology at BPEI and the VA Hospital

**Prerequisite:**

None

**Expectations:**

Lectures are held daily and lecture and clinic attendance is **mandatory**. Students are **required** to spend time in the general ophthalmology, subspecialty, and emergency care clinics and to **observe** different surgery procedures including at least one intraocular procedure (cataract, glaucoma or retinal surgery) and an extraocular procedure (strabismus, orbit, or eyelid surgery).

The students are **encouraged** to attend our daily Residents Morning lectures, Grand Rounds (Thursdays: Jose Berrocal Auditorium) and the Fluorescein angiography conference (Tuesdays Jose Berrocal Auditorium). Professionalism as mandated by the School of Medicine is expected.

**Student evaluations and grading:**

Evaluation is ongoing during the two weeks. The final evaluation by the coordinator is based on final written exam, presentation of case studies, feedback from instructors, performance in the clinic, and attendance.

**Report at 7:30 a.m. to the Bascom Palmer Eye Institute, 2<sup>nd</sup> floor**

Revised October 2019