OPHTHALMOLOGY

Program Requirements

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<th>Code</th>
<th>Title</th>
<th>Credits</th>
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**Elective Opportunities**

Elective courses must be approved by the course director listed. Course descriptions and additional details can be found at: https://www.hopkinsmedicine.org/som/students/academics/electivebook.pdf

**Ophthalmology Clinical Electives**

- **Clinical Elective in Ophthalmology; Dr. Henry Jampel**
- **Advanced Work and Research in Ophthalmology and Neurosurgery; Dr. Henry Brem**
- **Clinical Neuro-Ophthalmology: Dr. Neil Miller**
- **Ophthalmology Informatics (Computers in Ophthalmology); Dr. Michael Boland**
- **Elective in Oculoplastic Surgery; Dr. Fatemah Rajaii**
- **Retina/Ophthalmology Clerkship (for Clinician Scientists); Dr. Peter Gehlbach**
- **Signal Acquisition and Processing in Ophthalmic Optics; Dr. Boris Gramatikov**
- **Clinical Elective in Ophthalmology at Green Spring Station; Dr. Kraig S. Bower**
- **Clinical elective in ophthalmology at Odenton and Columbia; Dr. Divya Srikumaran**
- **Investigating the basis of inherited ocular dystrophies; Dr. S Amer Riazuddin**
- **Argus II retinal implant, intracortical visual prosthesis and ultra low-vision assessment; Dr. Gislin Dagnelie**
- **Pediatric ophthalmology and strabismus; Dr. Courtney Kraus**
- **Online elective in ophthalmology; Dr. Henry Jampel**

**Research opportunities (contact preceptor to arrange research)**

- **Medical retina; Dr. Morton Goldberg and Dr. Sharon Solomon**
- **Cornea and cataract; Drs. Esen Akpek, Allen Eghrari, John Gottsch, Irene Kuo, Oliver Schein, Shameema Sikder, Uri Soiberman and Robert Weinberg**
- **Neuro-ophthalmology; Drs. Neil Miller, Thomas (Mac) Bosley, Amanda Henderson, Andrew Carey and Timothy McCulley**
- **Pathophysiology of Eye-Movement Disorders and Nystagmus; Dr. David Zee**
- **Ocular Tumors; Methods of Diagnosis and Treatment; Dr. James Handa**
- **Oculoplastics: Drs. Nicholas Iliff, Nicholas Mahoney, Timothy McCulley, and Shannath Merbs**
- **Ocular Epidemiology: Drs. Harry Quigley, Pradeep Ramulu, Oliver Schein and Sheila West**
- **Refractive eye surgery; Dr. Kraig S. Bower**
- **Sickle-cell eye disease; Dr. Morton Goldberg and Dr. Adrienne Scott**
- **Angiogenesis Research and Controlled Drug Delivery; Dr. Henry Brem**
- **Uveitis; Scleritis, Cytomegalovirus Retinitis, Autoimmune Diseases of the Eye; Dr. Richard Semba and Dr. Jennifer Thorne**
- **Surgical Retina: Drs. Peter Campochiaro, Peter Gehlbach, James Handa, Adrienne Scott and Ingrid Zimmer-Galler**
- **Medical Informatics and Electronic Health Record; Dr. Michael Boland**
- **Retinal Molecular Biology; Dr. Don Zack**
- **Surgical Education; Dr. Shameema Sikder**
- **Automation of eye exam, telemedicine, optimization of clinic flow; Dr. Eric Singman**
- **Pediatric ophthalmology and adult strabismus; Dr. Megan Collins**
- **Pediatric ophthalmology and Public Health and/or Health care policy; Dr. Megan Collins**
- **Medical ethics; Dr. Megan Collins**
- **Engineering in Ophthalmology; Dr. Peter Gehlbach**