## Ophthalmology

### Program Requirements

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<tr>
<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](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
- 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
- Clinical Elective In Ocular Immunology, Dr. Meghan Berkenstock

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

- Medical retina; Dr. Morton Goldberg and Dr. Sharon Solomon
- Cornea and cataract; Drs. Esen Akpek, Allen Eghrari, Irene Kuo, Oliver Schein, Shameema Sikder, Uri Soiberman and Robert Weinberg
- Neuro-ophthalmology; Drs. Neil Miller, Amanda Henderson, and Andrew Carey
- Pathophysiology of Eye-Movement Disorders and Nystagmus; Dr. David Zee
- Ocular Tumors; Methods of Diagnosis and Treatment; Dr. James Handa
- Ocular Epidemiology: Drs. Harry Quigley, Pradeep Ramulu, Oliver Schein and Sheila West
- Refractive eye surgery; Dr. Kraig S. Bower
- Sickle-cell eye disease; 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, and Adrienne Scott
- Medical Informatics and Electronic Health Record; Dr. Michael Boland
- Retinal Molecular Biology; Dr. Don Zack
- Surgical Education; Dr. Shameema Sikder
- 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