### Ophthalmology Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>Elective Opportunities</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Elective courses must be approved by the course director listed.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Course descriptions and additional details can be found at:</td>
<td></td>
</tr>
<tr>
<td></td>
<td><a href="https://www.hopkinsmedicine.org/som/students/academics/electivebook.pdf">https://www.hopkinsmedicine.org/som/students/academics/electivebook.pdf</a></td>
<td></td>
</tr>
</tbody>
</table>

#### 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