# On-Site Course Descriptions

## UNDERSTANDING COURSE LISTINGS

<table>
<thead>
<tr>
<th>COURSE LEVEL</th>
<th>COURSE TITLE</th>
<th>ROOM</th>
<th>DAY</th>
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<tbody>
<tr>
<td>INTERMEDIATE</td>
<td>Ocular Telehealth Technology (02SU4B)</td>
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<tr>
<td>FACULTY</td>
<td>April Maa, MD, Decatur, GA</td>
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<td>CREDITS</td>
<td>Credits: 1.00 IJCAHPO</td>
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<tr>
<td>DESCRIPTION</td>
<td>This course will explore the principles of ocular telehealth technology, including equipment and protocols. Participants will learn about the latest telehealth services and how they can be integrated into clinical practice.</td>
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### Course Levels:

- **BASIC**
- **INTERMEDIATE**
- **ADVANCED**
- **MASTERS**

**NEW! Let Me Know, Let Me Grow. The Power of Cross-Training (02SU7A)**

Anderson Brock, BS, COMT, CME, Clarksville, TN

Sunday, 3:00–3:30 p.m.

Credits: 0.50 IJCAHPO

**Description:** This course will explain what is cross-training, techniques to implement cross-training, pros and cons and how cross-training can improve clinic efficiency and practice unity.

**NEW! 2024 Coding Update and the Impact on the Ophthalmic Technician (01SU7)**

Joy Woodke, COE, OCS, OCSR, Eugene, OR

Sunday, 3:00–4:00 p.m.

Credits: 1.00 IJCAHPO

**Description:** Crucial coding updates will be presented focusing on the ophthalmic technician role. Using relevant case studies, this course will outline the changes and prepare clinicians for the new year, including a review of E/M and eye visit codes. Useful resources and quick reference guides will be explored for appropriate coding guidelines in the clinic.

## 1. Administrative/Practice Management

**NEW! Tips and Tricks for Finding Efficiencies in Your Clinic (06SU2)**

Carol Olvera, MHA, COT, Thornton, CO

Amanda Folse, COA, Lakewood, CO

Jacqueline Johnson, COA, Denver, CO

Sunday, 8:45–9:45 a.m.

Credits: 1.00 IJCAHPO

**Description:** This course will review ways both leaders and front-line staff can create efficiencies in clinical workflow. Clinical managers from a retina specialty practice will explain the benefits their clinic has reaped from empowering staff to improve clinical efficiency.

**NEW! Optimizing Clinical Trials (04SU4)**

Namrata Saroj, OD, New York, NY

Kegley, Eric, COT, CRA, Bellaire, TX

Miller, Bryce, MPA, Austin, TX

Sunday, 11:15 a.m.–12:15 p.m.

Credits: 1.00 IJCAHPO, CEP: CABRN-1

**Description:** This course will feature short presentations and panel discussion with clinical trial experts to provide and discuss best practices to run clinical trials effectively. Panelists will include a diverse group of individuals involved in different aspects of the trial execution. Financial interest disclosed.

**Research Ready? Preparing Your Site for Clinical Trial Participation (01SU6)**

Jacqueline Whinery, OCS, Bakersfield, CA

Keely Puls, COA, Sioux Falls, SD

Sunday, 1:45–2:45 p.m.

Credits: 1.00 IJCAHPO, CEP: CABRN-1

**Description:** This course will discuss key aspects of clinical research participation in an ophthalmology practice setting. It will provide an overview of regulatory compliance, good clinical practice and the responsibilities of the principal investigator and other study personnel.

**The Ophthalmic Master Trainer’s Toolkit (06SU5)**

Christine McDonald, COA, COE, ROUB, OSC, Fenton, MO

Craig Simms, BS, COMT, ROUB, CDOS, Kingston, ON, Canada

Sunday, 12:30–1:30 p.m.

Credits: 1.00 IJCAHPO

**Description:** This session will discuss techniques to maximize your training skills. The focus will be on skills you can use to train new employees and cross-train experienced technicians on new skills. This session will include how to give feedback, demonstrate skills to learners, assess learner skill development, and supervise and improve clinic efficiency, allowing for more time to train.

**NEW! To Scribe or Not to Scribe, That is the Question (03SU4A)**

Michelle Willis, COMT, (F)ATPO, OSC, Columbia, TN

Sunday, 11:15–11:45 a.m.

Credits: 0.50 IJCAHPO

**Description:** This course will provide an introduction to scribing to those who may be interested in becoming a scribe and those who are new to scribing. It will review the skills and knowledge needed in scribing and offer tips for success.

## 2. Chart Documentation/Coding/Scribing/Triage

**Modifiers Made Easy (03SA4)**

Matthew Baugh, MHA, COT, OCS, OCSR, West Jordan, UT

Saturday, 11:15 a.m.–12:15 p.m.

Credits: 1.00 IJCAHPO

**Description:** This course will help ophthalmic technicians understand why billing modifiers are important, what they are and how to use them.

## DISCLAIRMER:

In granting continuing education credit to a course or materials, IJCAHPO does not warrant or express an opinion regarding the content of the continuing education courses or materials, the accuracy of information presented or the skills and qualifications of the course presnters, sponsors or authors.

**FINANCIAL INTEREST:** An instructor’s financial interest is disclosed at the beginning of their presentation.
On-Site Course Descriptions

NEW! Obtaining and Verifying Informed Consent (02SU6B)
Hans Bruhn, MHS, San Francisco, CA
Sunday, 2:20–2:50 p.m.
Credits: 0.50 IJCAHPO
Description: The informed consent process is the documentation of discussions with a patient about proposed care and treatment. It is much more than the consent form being signed by the patient. This course will go over the importance of obtaining and verifying informed consent with patients, and strategies to mitigate liability. Financial interest disclosed.

NEW! Scribing Your Way To Leadership: Get It Done, Get It Right, Get Along (03SU4B)
Sara Esau, COA, CPSS, Bakersfield, CA
Sunday, 11:50 a.m.–12:20 p.m.
Credits: 0.50 IJCAHPO
Description: In this lecture, the presenter will outline the scribe’s role in three parts coinciding with the “Get it done, get it right, get along” ideology. The most efficient scribes function in three roles that often blend together: the patient advocate, the team leader, and the doctor’s “right hand.” This course will outline maintaining balance while ensuring the doctor is as efficient and accurate as possible.

NEW! Triage: What Are the Most Important Questions? (03SU3B)
Michelle Willis, COMT, (F)ATPO, OSC, Columbia, TN
Sunday, 10:35–11:05 a.m.
Credits: 0.50 IJCAHPO
Description: This course will provide an overview of the most important questions to ascertain how emergent, urgent or really just routine the eye issue is and how to schedule the patient in an appropriate manner.

NEW! So You Want to Be a Tech: Here’s What You Need to Know (02SU2B)
Sarah Saile, COT, Lutz, FL
Sunday, 9:20–9:50 a.m.
Credits: 0.50 IJCAHPO
Description: This course will provide an overview of the essential knowledge and skills needed to provide the beginning technician with a successful start.

4. General Ophthalmic Knowledge

BASIC

Equipment Repair and Maintenance: How to Save Time and Money (03FR1)
Jeffery Hunter, COT, Kent, OH
Friday, 7:30–8:30 a.m.
Credits: 1.00 IJCAHPO
Description: This course will describe how to take care of and maintain basic ophthalmic equipment.

Medical Ethics (01FR3)
Hon-Vu Duong, MD, SFHEA, Henderson, NV
Friday, 10:00–11:00 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will discuss the definition of medical ethics, scope of ethics in the medical practice, theories and principles of ethics and the professional duties associated with ethics.

NEW! Compassionomics: The Science and Practice of Caring (02SU2A)
Mark Johnson, MD, Ann Arbor, MI
Sunday, 8:45–9:15 a.m.
Credits: 0.50 IJCAHPO
Description: This course will present robust scientific evidence that compassion in healthcare measurably improves patient outcomes, increases the quality and safety of care, reduces costs and prevents provider burnout. It will also discuss ways we can grow our compassion and communicate it to our patients.

5. Comprehensive Clinical Ophthalmology

BASIC

NEW! Health Disparities (03SU6B)
Sean Rodriguez, MD, Coralville, IA
Sunday, 2:20–2:50 p.m.
Credits: 0.50 IJCAHPO
Description: This course will highlight ophthalmic health disparities present in many of our communities. We will discuss common risk factors present in under served populations, common unmet ophthalmic needs and ways for you to get involved and make a positive impact if interested.

NEW! Ocular Telehealth Technology (02SU4B)
April Maa, MD, Decatur, GA
Sunday, 11:50 a.m.–12:20 p.m.
Credits: 0.50 IJCAHPO
Description: This course will cover different types of technology, available and in development, that can be used for telehealth purposes. Examples include in-home monitoring devices and smart phone applications. Research about the accuracy of these apps will also be discussed.

Ophthalmic Jeopardy (02SA7)
Kelly Moehrle, COMT, OSC, Rochester, PA
Saturday, 10:00–11:00 a.m.
Saturday, 3:00–4:00 p.m.
Sat., 3:00–4:00 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: Attendees will be broken into teams and will compete in a quiz-based game show. Questions will be focused on Certified Ophthalmic Assistant (COA) and Certified Ophthalmic Technician (COT) examination content areas.

INTERMEDIATE

NEW! Tech Talks—Open Mic Session (05SA2)
Natalie Loyacano, COMT, OSA, ROUB, OSCR, (F)ATPO, Biloxi, MS
Carla Blackburn, BSc COMT, CDOS, ROUB, Nepean, ON, Canada
Christine McDonald, COA, COE, ROUB, OSC, Fenton, MO
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON, Canada
Michelle Willis, COMT, (F)ATPO, OSC, Columbia, TN
Saturday, 8:45–9:45 a.m.
Credits: 1.00 IJCAHPO
Description: This session will feature a panel discussion with an open mic for audience participation on a wide variety of ophthalmic topics.

NEW! It’s All Fun and Games (03SU7)
Christine McDonald, COA, COE, ROUB, OSC, Fenton, MO
Saturday, 3:00–4:00 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: Learning doesn’t always have to be a challenge or boring. Games help stimulate our minds, boost creativity and help us see things in a new way. In this course, you can test your ophthalmic knowledge by playing a game.

Ocular Telehealth Technology (02SU4B)
April Maa, MD, Decatur, GA
Sunday, 11:50 a.m.–12:20 p.m.
Credits: 0.50 IJCAHPO
Description: This course will cover different types of technology, available and in development, that can be used for telehealth purposes. Examples include in-home monitoring devices and smart phone applications. Research about the accuracy of these apps will also be discussed.
### On-Site Course Descriptions

#### NEW! Diving and the Eye (03SU2A)
Michael Stewart, MD, Jacksonville, FL  
**Sunday, 8:45–9:15 a.m.**  
**Credits: 0.50 ICAHPO**  
**Description:** Artificial environments, such as occurs with skin and scuba diving, subject the eyes and adnexa to unique forces and cause optical alterations. This course will discuss the challenges and risks to visual clarity and ocular health faced by those who dive.

#### NEW! Evaluation and Management of Tearing Patients (03SA2)
John Nguyen, MD, Morgantown, WV  
**Saturday, 8:45–9:45 a.m.**  
**Credits: 1.00 ICAHPO, CEP: CABRN-1**  
**Description:** This course will review the relevant anatomy and pathogenesis of nasolacrimal duct obstruction. It will also review the evaluation and management of epiphora.

#### NEW! Pink Eye: What is it? (03FR4)
Gary Legault, MD, San Antonio, TX  
**Friday, 11:15 a.m.–12:15 p.m.**  
**Credits: 1.00 ICAHPO, CEP: CABRN-1**  
**Description:** This course will highlight the common causes of conjunctivitis, key differences to determine the diagnosis, and management for each etiology. Not every “pink eye” is a bacterial infection, but many treat every case with antibiotics. By the end of the course, you will be able to recognize differences in conjunctivitis and educate patients about proper treatment. **Financial interest disclosed.**

#### NEW! Presbyopia: Everything Old is New Again! (03SU1B)
William Ehlers, MD, Farmington, CT  
**Sunday, 8:05–8:35 a.m.**  
**Credits: 0.50 ICAHPO**  
**Description:** For most of us, unless we actually find the fountain of youth, presbyopia is unavoidable. Fortunately, there are many alternatives for dealing with this inevitability. This course will discuss some of the standard methods of correction and some of the newer approaches to achieving clear vision at all distances. This course is intended for beginners and intermediate learners.

#### NEW! Work Up Pearls for Trainees and Trainers (03SU3A)
Crystal Martinez, COMT, OCS, OSC, Albuquerque, NM  
**Sunday, 10:00–10:30 a.m.**  
**Credits: 0.50 ICAHPO**  
**Description:** This course will provide tips and recommendations for technicians to improve work ups, both for accuracy and efficiency. It will also offer tips to trainers on how to assist new hires in learning these skills.

**You Saw What? A Curious Compendium of Ocular Oddities (01SA7)**
William Ehlers, MD, Farmington, CT  
**Saturday, 3:00–4:00 p.m.**  
**Credits: 1.00 ICAHPO, CEP: CABRN-1**  
**Description:** This course will discuss a collection of cases that demonstrate some rare and fascinating ocular maladies. It will feature a mix of history, case presentations and epidemiology that covers unusual diagnoses from around the world, running the gamut from Acanthamoeba Keratitis through Zelwegger Syndrome.

### 6. General Surgery

#### Compliance in the Ophthalmic ASC in 2023 (01SU4)
Elethia Dean, PhD, MBA, RN, BSN, Columbus, OH  
**Saturday, 11:15 a.m.–12:15 p.m.**  
**Credits: 1.00 ICAHPO, CEP: CABRN-1**  
**Description:** This course will cover content from surveys focused on how to achieve compliance in 2023, including but not limited to instrument sterilization in the ophthalmic ASC, medication administration, infection control and more.

#### NEW! Reducing Drugs Waste During Surgery (02SA2)
Francis Mah, MD, La Jolla, CA  
**Saturday, 8:45–9:45 a.m.**  
**Credits: 1.00 ICAHPO, CEP: CABRN-1**  
**Description:** This course will present the amount of waste of drugs and the concerns of over the carbon footprint of modern eye surgeries in developed countries.

#### NEW! Surgical Preparation of the Eye (03SU5A)
Elethia Dean, PhD, MBA, RN, BSN, Columbus, OH  
**Sunday, 12:30–1:00 p.m.**  
**Credits: 1.00 ICAHPO**  
**Description:** In the field of ophthalmology, many things must go right to get optimal outcomes for patients. Frequently the focus is placed on surgeon technique and instrument sterilization, however another very important aspect of surgical technique is missed—the surgical preparation of the eye. This course will cover best practice methods of cleaning and preparing the eye for ophthalmic surgery—reducing bacterial growth and minimizing opportunities for surgical site infections.

### 7. Cornea

#### Corneal Procedures for Today and Tomorrow (01FR5)
Derek DelMonte, MD, Greensboro, NC  
**Friday, 12:30–1:30 p.m.**  
**Credits: 1.00 ICAHPO, CEP: CABRN-1**  
**Description:** This course will update attendees on the latest corneal surgical procedures being performed today. We will discuss transplant techniques including Descemet’s stripping endothelial keratoplasty (DSEK), Descemet’s membrane endothelial keratoplasty (DMEK) and lamellar grafting. We will also discuss new therapies for corneal ectasia including corneal ring segments and collagen cross-linking. Indications for these new procedures, as well as decision-making about who are good candidates and the timing of intervention, will be touched upon. **Financial interest disclosed.**

#### NEW! Indication for OSD Testing (01FR1)
Francis Mah, MD, La Jolla, CA  
**Friday, 7:30–8:30 a.m.**  
**Credits: 1.00 ICAHPO, CEP: CABRN-1**  
**Description:** This course will discuss the indication for ocular surface disease (OSD) testing.

#### Neurotrophic Keratopathy (01SA3)
Joann Kang, MD, Bronx, NY  
**Saturday, 10:00–11:00 a.m.**  
**Credits: 1.00 ICAHPO, CEP: CABRN-1**  
**Description:** This course will discuss the basic pathophysiology, causes and management of neurotrophic keratopathy. In addition, current challenges, novel treatments and future directions will be discussed.
On-Site Course Descriptions

Ocular Surface Disease: Benefits of New Diagnostic Imaging Techniques (06SU3)
Charles Bouchard, MD, Maywood, IL
Sunday, 10:00–11:00 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will review the role of current diagnostic imaging techniques in the management of ocular surface disease.

NEW! Cornea Case Challenges (02SU4A)
Joanne Shen, MD, Scottsdale, AZ
Sunday, 11:15–11:45 a.m.
Credits: 0.50 IJCAHPO
Description: This course will review challenging cases in cornea clinic and strategies for management.

8. Glaucoma

INTERMEDIATE
NEW! Minimally Invasive Glaucoma Surgery (MiGS): Pearls for Techs (02SU3A)
Julilia Rosdahl, MD, PhD, Durham, NC
Sunday, 10:00–10:30 a.m.
Credits: 0.50 IJCAHPO
Description: This course will cover information that is important for ophthalmic technicians to know about MiGS, including an overview of the procedures, indications and post-op information.

Neovascular Glaucoma (02SA3)
Carla Bourne, MD, Land O Lakes, FL
Saturday, 10:00–11:00 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: Neovascular glaucoma is a common but challenging condition which causes significant ocular morbidity. It is important to be able to efficiently triage and treat these patients since successful management is time sensitive and requires a multi-discipline approach. Discussions will include underlying etiologies, diagnosis and treatment strategies.

NEW! New Innovative Directions in Glaucoma Detection and Management (01SA2)
James C. Tsai, MD, MBA, FACS, New York, NY
Saturday, 8:45–9:45 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This lecture provides a summary of new innovative advances in the detection and management of glaucoma. The participant will gain a greater understanding of potential new technologies to assess visual function, provide sustained release of drugs and control intraocular pressure via less invasive surgical methods.

9. Oculoplastics

INTERMEDIATE
NEW! Obesity and Oculoplastic Surgery: A Dangerous Combination (03SU5B)
Richard Allen, MD, PhD, FACS, Austin, TX
Sunday, 1:05–1:35 p.m.
Credits: 0.50 IJCAHPO
Description: The obesity epidemic in Western countries has countless effects on the delivery of healthcare. The effects are felt not just in general medicine but in ophthalmology and oculoplastic surgery. This course will discuss the different ways in which obesity affects the care of patients with oculoplastic surgery related issues.

NEW! Cornea Case Challenges (02SU4A)
Joanne Shen, MD, Scottsdale, AZ
Sunday, 11:15–11:45 a.m.
Credits: 0.50 IJCAHPO
Description: This course will review challenging cases in cornea clinic and strategies for management.

NEW! Minimally Invasive Glaucoma Surgery (MiGS): Pearls for Techs (02SU3A)
Julilia Rosdahl, MD, PhD, Durham, NC
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Description: This lecture provides a summary of new innovative advances in the detection and management of glaucoma. The participant will gain a greater understanding of potential new technologies to assess visual function, provide sustained release of drugs and control intraocular pressure via less invasive surgical methods.

10. Retina

INTERMEDIATE
NEW! Gene Therapy for Inherited Retinal Degenerations (02SU6A)
Jacque Duncan, MD, San Francisco, CA
Sunday, 1:45–2:15 p.m.
Credits: 0.50 IJCAHPO
Description: This lecture will provide an introduction to inherited retinal degenerations and an overview of gene therapy to treat them.

NEW! Electoretinography (ERG) and It’s Role in Inherited Retinal Diseases (02SA4)
Sandeep Grover, MD, Jacksonville, FL
Saturday, 11:15 a.m.–12:15 p.m.
Credits: 1.00 IJCAHPO
Description: This course will cover a primer on electoretinography (ERG), its technique and interpretation and its role in the diagnosis of inherited retinal diseases.

Intravitreal Injection for the Treatment of Retinal Disease (03SA7)
Adam Wenick, MD, PhD, Baltimore, MD
Saturday, 3:00–4:00 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will describe the anti-VEGF agents and steroids delivered by intravitreal route that are commonly used to treat retinal disease. The course will give an overview of indications for treatment, commonly used treatment regimens, preparation of the patient prior to treatment intravitreal injection technique, potential complications of treatment and post-procedure care. Financial interest disclosed.

NEW! Pathogenesis and Surgical Management of the Schisis-Like Macular Edemas (02SU1B)
Mark Johnson, MD, Ann Arbor, MI
Sunday, 8:05–8:35 a.m.
Credits: 0.50 IJCAHPO
Description: This course will discuss the pathogenesis and surgical management of the major causes of schisis-like macular thickening, including myopic traction maculopathy, optic pit maculopathy and vitreomacular traction.

ADVANCED
NEW! Pathogenesis and Surgical Management of the Schisis-Like Macular Edemas (02SU1B)
Mark Johnson, MD, Ann Arbor, MI
Sunday, 8:05–8:35 a.m.
Credits: 0.50 IJCAHPO
Description: This course will discuss the pathogenesis and surgical management of the major causes of schisis-like macular thickening, including myopic traction maculopathy, optic pit maculopathy and vitreomacular traction.

ADVANCED
Retinal Complications of Cataract Surgery (06SU1)
Michael Stewart, MD, Jacksonville, FL
Sunday, 7:30–8:30 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: Some of the most vision-threatening complications of cataract surgery involve the retina. Problems such as retinal detachments and endophthalmitis must be addressed urgently, whereas retained lens fragments and cystoid macular edema create chronic visual problems. This course will discuss a variety of problems seen in cataract surgery practices. Financial interest disclosed.
On-Site Course Descriptions

11. Refractive and Cataract Surgery

**INTERMEDIATE**

**Biometry and IOL Power Calculations (01SU5)**
Jacqueline Whinery, OCS, Bakersfield, CA
Sunday, 12:30–1:30 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will discuss the role of biometry in IOL power calculations. Methods of evaluating quality and repeatability of measurements will be covered. Special cases of IOL power calculations, including post-refractive surgery calculations, will be addressed.

**Modern Approaches to Cataract Surgery Complications (02FR5)**
Sabin Dang, MD, Saint Louis, MO
Friday, 12:30–1:30 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will review what complications can occur with cataract surgery as well as the most updated techniques to manage them. Financial interest disclosed.

**Premium IOLs: What’s New in 2023 (03SA5)**
Vasudha Panday, MD, San Antonio, TX
Saturday, 12:30–1:30 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will update learners on advances in premium intraocular lens (IOL) technology and briefly review IOL calculations for these lenses. The focus will be on the US market and what is new and different in the available technology.

**NEW! Working with Cataract Surgery Patients: What Your Surgeon Wants You to Know (03SA3)**
Linda Tsai, MD, FACS, Saint Louis, MO
Saturday, 10:00–11:00 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will use clinical scenarios of patients undergoing various cataract surgery procedures (e.g. complex, femtosecond assisted, MIGS, toric IOL, accommodating IOL, multifocal IOL) to review patient workups that will be helpful to the surgeon you are working with.


**INTERMEDIATE**

**VINDICATES: A Neuro-Ophthalmology Update on Vision Loss (06SU4)**
John Chen, MD, PhD, Rochester, MN
Sunday, 11:15 a.m.–12:15 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: The course will use the mnemonic VINDICATES to discuss the differential diagnosis of vision loss.

**NEW! Visual Effects of Headaches (01SU1)**
Aljoeson Walker, MD, Charleston, SC
Sunday, 7:30–8:30 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will discuss the presentation of daily headache, migraine, migraine with aura, cluster headaches and trigeminal autonomic cephalalgias. Treatment considerations will also be discussed.

13. Pediatrics

**BASIC**

**NEW! Pediatric Ocular Tumors (02FR2)**
Carol Shields, MD, Philadelphia, PA
Friday, 8:45–9:45 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will cover the important ocular tumors affecting children. An organized presentation will be given on the recognition and management of tumors of the eyelid, conjunctiva, intraocular structures, and orbit. Retinoblastoma management will be summarized.

**INTERMEDIATE**

**NEW! Eye Care for Kids: Managing Children in the Clinic (04SA3)**
Alexander Christoff, COT, CO, Towson, MD
Saturday, 10:00–11:00 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: In this course, the instructor will share his experience and knowledge obtained in 21 years as a certified orthoptist for effectively managing and interacting with children of all ages during a pediatric eye exam.

**ADVANCED**

**Challenging Cases in Pediatrics (03SU2B)**
Matthew Gearinger, MD, Rochester, NY
Sunday, 9:20–9:50 a.m.
Credits: 0.50 IJCAHPO
Description: This course will be a case-based lecture of challenging cases in pediatric ophthalmology.

14. Ocular/Systemic Diseases

**INTERMEDIATE**

**NEW! Infectious Uveitis Syndromes: Resurging and Emerging Infections Not to Miss (03FR6)**
Steven Yeh, MD, Omaha, NE
Jessica Shantha, MD, San Francisco, CA
Friday, 1:45–2:45 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will focus on infectious uveitis syndromes and ocular diseases of public health impact. It will include resurging diseases (e.g. syphilis, tuberculosis) and emerging infections that can lead to sight-threatening eye disease. Ophthalmic manifestations, lab testing and management approaches will be discussed with didactic and interactive formats.
On-Site Course Descriptions

15. Diagnostic Testing/Imaging

**NEW! The Basics of Visual Electrophysiology (01FR6)**
Leobardo Cortez, COA, CRA, OCT-C, Downey, CA
Friday, 1:45–2:45 p.m.
Credits: 1.00 IJCAHPO, CEP: CBRN-1
Description: This lecture will discuss what electrophysiology is and focus primarily on H-ERG, m-ERG and EOG. It will explain how the tests are performed, how to interpret tests and what type of patients would benefit from this test.

**NEW! Recent Advances in Retinal Imaging (03FR5)**
Dirk-Uwe Bartsch, PhD, Del Mar, CA
Friday, 12:30–1:30 p.m.
Credits: 1.00 IJCAHPO, CEP: CBRN-1
Description: This course will cover the recent advances in OCT Angiography, high-speed OCT and other developments in retinal imaging. The course will teach users how to identify artifacts and image acquisition problems.

**NEW! Ultrasound Evaluation of Extraocular Muscles (03FR2)**
Xiaosong Zhu, COMT, Wynnewood, PA
Friday, 8:45–9:45 a.m.
Credits: 1.00 IJCAHPO
Description: This course, designed for advanced sonographers, will review the basic technique for extraocular muscle evaluation using diagnostic A-scan and B-scan. The ultrasound features of the most common pathologies that could affect the extraocular muscles will be described.

**NEW! Pearls and Pitfalls of OCT Angiography (02SU1A)**
Srinivas Sadda, MD, FARVO, Los Angeles, CA
Sunday, 7:30–8:00 a.m.
Credits: 1.00 IJCAHPO
Description: This course will discuss the fundamentals of optical coherence tomography (OCT) angiography including the underlying principles, differences in technologies, challenges in acquiring good images, challenges in interpretation and common clinical applications.
Financial interest disclosed.

**NIW! Echographic Imaging of Malignant Tumors in Pediatric and Adult Patients (02SU5)**
Kelly Babic, COA, CDOS, La Jolla, CA
Sunday, 12:30–1:30 p.m.
Credits: 1.00 IJCAHPO, CEP: CBRN-1
Description: This is a course on ocular malignant tumors in pediatric and adult patients with overview of imaging modalities and monitoring strategies. There will be an emphasis on tumor characterization (and masquerades) on B-Scan and UBM as well as tips on standardized approach to charting of lesions.

**NEW! Understand Strabismus and Tools to Measure Them (03FR7)**
Xiaosong Zhu, COMT, Wynnewood, PA
Friday, 3:00–4:00 p.m.
Credits: 1.00 IJCAHPO, CEP: CBRN-1
Description: This course will review the anatomy and function of six extraocular muscles, meaning of the binocular functions and types of different deviations. Different tools for measuring strabismus will be presented and discussed (cover test, prism bar, Maddox rod, Worth 4 dot, stereo test, etc.).

**NEW! Ultra Wide Field Photography (01FR7)**
Jeremy Shaw, MD, Irwindale, CA
Friday, 3:00–4:00 p.m.
Credits: 1.00 IJCAHPO, CEP: CBRN-1
Description: This course will provide an introduction to ultra wide photography. It will discuss current applications, tips for acquiring useful images and use in the management of diabetic retinopathy.

**NEW! The Basics of Visual Electrophysiology (01FR6)**
Leobardo Cortez, COA, CRA, OCT-C, Downey, CA
Friday, 1:45–2:45 p.m.
Credits: 1.00 IJCAHPO, CEP: CBRN-1
Description: This lecture will discuss what electrophysiology is and focus primarily on H-ERG, m-ERG and EOG. It will explain how the tests are performed, how to interpret tests and what type of patients would benefit from this test.

On-Site Program

16. Visual Fields

**NEW! Minimizing Errors in Visual Field Testing to Provide Clinically Useful Results (01SA6)**
Neil Choplin, MD, Jamul, CA
Saturday, 1:45–2:45 p.m.
Credits: 1.00 IJCAHPO, CEP: CBRN-1
Description: This course will discuss strategies to reduce common errors in automated visual field testing. Examples of common errors will be shown along with a discussion of methods for preventing them. Measures of unreliability will also be discussed with how to recognize they are occurring and how to minimize them.

**NEW! Recent Advances in Retinal Imaging (03FR5)**
Dirk-Uwe Bartsch, PhD, Del Mar, CA
Friday, 12:30–1:30 p.m.
Credits: 1.00 IJCAHPO, CEP: CBRN-1
Description: This course will review the basics of scanning laser ophthalmoscopy and optical coherence tomography (OCT). In addition, the course will cover the recent advances in OCT Angiography, high-speed OCT and other developments in retinal imaging. The course will teach users how to identify artifacts and image acquisition problems.

**NEW! Pearls and Pitfalls of OCT Angiography (02SU1A)**
Srinivas Sadda, MD, FARVO, Los Angeles, CA
Sunday, 7:30–8:00 a.m.
Credits: 1.00 IJCAHPO
Description: This course will discuss the fundamentals of optical coherence tomography (OCT) angiography including the underlying principles, differences in technologies, challenges in acquiring good images, challenges in interpretation and common clinical applications.
Financial interest disclosed.

**NEW! Ultrasound Evaluation of Extraocular Muscles (03FR2)**
Xiaosong Zhu, COMT, Wynnewood, PA
Friday, 8:45–9:45 a.m.
Credits: 1.00 IJCAHPO
Description: This course, designed for advanced sonographers, will review the basic technique for extraocular muscle evaluation using diagnostic A-scan and B-scan. The ultrasound features of the most common pathologies that could affect the extraocular muscles will be described.

The cancellation of on-site ACE 2023 by IJCAHPO for any reason will result in the conversion of on-site registrations to virtual registrations with no change in fees and no refunds given.

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On-Site Course Descriptions

17. Instruments and Specialized Tests

**NEW! ANTERION: Imaging Optimized for the Anterior Segment (03SU6A)**
Karen McHugh, CRA, Orlando, FL
Cindy Armstrong, COMT, Rialto, CA
Sunday, 1:45–2:15 p.m.
Credits: 0.50 IJCAHPO
Description: This course presented by Heidelberg Engineering, will review the ANTERION and how it utilizes the power of high-resolution swept-source optical coherence tomography (OCT) images to provide the most important anterior segment examination. Financial interest disclosed.

**Important Note:** The prerequisite courses listed below are offered online only to those who register for specific Learning Labs.

**Introduction to Contact B-Scan Ultrasonography (VD171023)**
Credits: 1.00 IJCAHPO
Prerequisite: This online prerequisite course is being offered in advance of the on-site program. It will not be offered on-site and is only available to attendees who register for the Contact B-Scan Ultrasonography Learning Labs.
Description: This course will introduce the participants to the field of B-scan ultrasound. The course will start with the basics of how and why ultrasound is used in ophthalmology, then shift to the specific techniques used during a B-scan exam. These techniques will include applying the probe to the eye, probe positions and examination techniques.

**Introduction to Ultrasound Biometry (VD171022)**
Credits: 1.00 IJCAHPO
Prerequisite: This online prerequisite course is being offered in advance of the on-site program. It will not be offered on-site and is only available to attendees who register for the Ultrasound Biometry (A-Scan) Learning Labs.
Description: This course will review A-scan biometry used for IOL calculations. Contact biometry will be discussed, but the emphasis will be on the immersion biometry exam. Examination techniques will be reviewed and illustrated.

**Minus Cylinder Refraction (VD171019)**
Credits: 1.00 IJCAHPO
Prerequisite: This online prerequisite course is being offered in advance of the on-site program. It will not be offered on-site and is only available to attendees who register for the Basic Retinoscopy Learning Labs.
Description: This course will discuss the theory behind the minus cylinder refraction technique. Techniques to neutralize refractive errors using the minus cylinder technique and identifying with and against motion will be discussed.

**Plus Cylinder Refraction (VD171017)**
Credits: 1.00 IJCAHPO
Prerequisite: This online prerequisite course is being offered in advance of the on-site program. It will not be offered on-site and is only available to attendees who register for the Basic Retinoscopy Learning Labs.
Description: This course will discuss the theory behind the plus cylinder refraction technique. Techniques to neutralize refractive errors using the plus cylinder technique and identifying with and against motion will be discussed.

**Refraction: Optics and Instrumentation (VD171018)**
Credits: 1.00 IJCAHPO
Prerequisite: This online prerequisite course is being offered in advance of the on-site program. It will not be offered on-site and is only available to attendees who register for the Basic Retinoscopy Learning Labs.
Description: This course will define different states of refractive errors, describe the optics of refractive errors and explain how they are corrected. Instrumentation for refraction will be discussed including the retinoscope, loose lenses, skiaoscopy racks and the phoropter.

**NEW! What Once Was: Using Manual Instruments in This Day and Age (03FR3)**
Adrienne Campos, COA, Bronx, NY
Friday, 10:00–11:00 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will help attendees build skills with using manual instruments. These skills are important in becoming a well-rounded technician to better assist in the examination process.

18. Contact Lenses/Spectacles/Optical Dispensing

**NEW! Contact Lens Related Complications (03SU1A)**
William Ehlers, MD, Farmington, CT
Sunday, 7:30–8:00 a.m.
Credits: 0.50 IJCAHPO
Description: Contact lenses, often worn by teens and young adults, are among the safest medical devices ever created. However, when complications occur, they can be painful and sight-threatening. A few simple guidelines can minimize the risks of contact lens wear. This course is intended for beginners and intermediate learners.

19. Visual Assessment and Therapy

**Pertinent Pupillary Problems (01SU2)**
Karl Golnik, MD, MEd, Phoenix, AZ
Sunday, 8:45–9:45 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course includes the description of pupil function, reaction to light, causes of small and large pupils, and the definition and demonstration of afferent pupillary defect. The course will define constriction, dilation, hippus, blown pupil and correctopia.

20. Low Vision/Treatment

**NEW! When Medical Procedures Are Over, But Patients Still Struggle: How Hadley Helps (02SU3B)**
Kirby Lindgren, Crystal Lake, IL
Sunday, 10:35–11:05 a.m.
Credits: 0.50 IJCAHPO
Description: Not that long ago, diseases like macular degeneration, glaucoma or diabetic retinopathy resulted in a patient’s total blindness. Today, with early diagnosis and proper medical care, these conditions are treatable. However, most patients face permanent vision changes that make everyday life challenging. Learn what struggles remain for your patients and how available resources and Hadley’s whole-person approach to rehab will transform their health and happiness. Financial interest disclosed.

**“Be one of the first to register and receive a FREE Amazon Echo Dot.”**
On-Site Course Descriptions

21. Masters Courses

**NEW! Acute Vision Loss (01FR2)**
Hon-Vu Duong, MD, SFHEA, Henderson, NV
Friday, 3:00–4:00 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will provide attendees with a detailed approach to patient care with acute vision loss.

**Clinical Trials Update 2023 (02FR7)**
William Mieler, MD, Winnetka, IL
Friday, 3:00–4:00 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will present the results of new clinical trials in the treatment of age-related macular degeneration (AMD), diabetic macular edema (DME), retinal vein occlusion (RVO) disease and diseases affecting the vitreomacular interface. Complications of treatment will be thoroughly reviewed. The results will be compared to pre-existing treatment modalities and a discussion will ensue regarding how the results of the new trials fit into our current treatment patterns. **Financial interest disclosed.**

**Grand Rounds Case Presentation: Neuro-Ophthalmology (01SU3)**
Karl Golnik, MD, MEd, Phoenix, AZ
Sunday, 10:00–11:00 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This case-based course will discuss a variety of neuro-ophthalmic conditions. The cases will be presented as unknowns and the audience will be encouraged to participate in the ultimate diagnosis.

**Grand Rounds: Ophthalmic Ultrasound (01SA4)**
Brandy Lorek, BS, CDOS, ROUB, Painesville, OH
Saturday, 11:15 a.m.–1:30 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: Interactive case studies focusing on ophthalmic ultrasound will be presented in a grand rounds format. Standardized echography and ultrasound biomicroscopy (UBM) will be shown as integral studies to aid in the diagnosis of complex ophthalmic diseases. Clinical findings, as well as other imaging studies including fundus photography, angiography, and optical coherence tomography (OCT) will be correlated with ultrasound findings. Audience participation is highly encouraged.

**Interesting Cases in Ocular Oncology (01SA5)**
Komal Desai, MD, Leawood, KS
Saturday, 12:30–1:30 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will discuss interesting cases in ocular oncology, including fluorescein angiography (FA) and B-scan/ultrasound biomicroscopy (UBM) findings. It will include an in-depth discussion of what the technician should be evaluating prior to the patient seeing the ophthalmologist and when to refer the patient. Anterior segment lesions in the iris, ciliary body and posterior segment lesions in the choroid will be addressed. Iris melanomas, vascular malformations, choroidal metastasis, primary uveal melanomas and interesting congenital hypertrophy of the retinal pigment epithelium (CHRPE)-like lesions will be some of the cases discussed.

**Mystery Retina 2023: Interactive Discussion of Challenging Cases (02FR6)**
William Mieler, MD, Winnetka, IL
Friday, 1:45–2:45 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Prerequisite: Knowledge of ophthalmic anatomy and physiology.
Description: This course will discuss a number of diagnostically challenging “mystery retina” cases. The majority of the presentations will include interpretation of fluorescein angiography (FA) and optical coherence tomography (OCT) test results. When indicated, other studies will be shown including indocyanine green (ICG) angiography, echography, autofluorescence, electrophysiologic studies, computed tomography (CT) and/or magnetic resonance imaging (MRI) and occasionally, cytology and histopathology. The cases will be presented as unknowns followed by discussion. **Financial interest disclosed.**

**NEW! Ptosis: Red Flag, Red Herring, or Red Alert (02FR1)**
Andrew Lee, MD, Houston, TX
Amina Malik, MD, Houston, TX
Friday, 7:30–8:30 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: Ptosis can be myogenic, neurogenic or neuromuscular junction in origin. Although some causes of ptosis (e.g. levator dehiscence) are benign, other causes are a red flag for underlying potentially life threatening disease (red flag) and may be emergent (red alert).

22. Sub-Specialty Sessions

**Cornea Sub-Specialty Session (06SA45)**
Derek DelMonte, MD, Greensboro, NC
Charles Bouchard, MD, Maywood, IL
Joann Kang, MD, Bronx, NY
Matthew Ward, MD, Provo, UT
Michael Wildes, MD, Littleton, CO
Saturday, 11:15 a.m.–1:30 p.m.
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Description: This session will provide updates on a variety of cornea topics. Discussion will include corneal ulcers, corneal imaging, corneal transplants, ocular surface neoplasia and the microbiome in ocular surface disease.

**Oculoplastics Sub-Specialty Session (06SU67)**
Richard Allen, MD, PhD, FACS, Austin, TX
Wendy Lee, MD, Miami, FL
Pete Setabutr, MD, Chicago, IL
Charles Slonim, MD, Tampa, FL
Sunday, 1:45–4:00 p.m.
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Description: This session will discuss a variety of oculoplastic topics including reconstructive surgery, ptosis, chalazions and hordeolums.

**Pathology and Oncology Sub-Specialty Session (06SA67)**
Lauren Dalvin, MD, Rochester, MN
Elaine Binkley, Iowa City, IA
Miguel Materin, MD, Morrisville, NC
Aparna Ramasubramanian, MD, Phoenix, AZ
Saturday, 1:45–4:00 p.m.
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Description: This session will focus on a variety of topics relating to pathology and ocular oncology. Faculty will discuss the management of retinoblastoma, vitreoretinal lymphoma, uveal melanoma and the diagnosis and management of uveal metastases.
On-Site Course Descriptions

NEW! Practice Management Round Table Discussion (05FR7)
Christine McDonald, COA, COE, ROUB, OSC, Fenton, MO
Patti Barkey, Jacksonville, FL
Carrie Jacobs, Burnsville, MN
Heather Modjesky, COE, Lancaster, PA
Carol Olvera, MHA, COT, Thornton, CO
Friday, 3:15–4:00 p.m.
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Description: This session will allow attendees to discuss a variety of practice management topics within small groups with their peers and members of our panel of practice management experts.

Practice Management Sub-Specialty Session (05FR56)
Christine McDonald, COA, COE, ROUB, OSC, Fenton, MO
Patti Barkey, Jacksonville, FL
Carrie Jacobs, COE, OCS, Burnsville, MN
Heather Modjesky, COE, Lancaster, PA
Carol Olvera, MHA, COT, Thornton, CO
Friday, 1:00–3:00 p.m.
Credits: 2.00 IJCAHPO
Prerequisite: A minimum of two years’ experience in the ophthalmic practice.
Description: The technician’s understanding and leadership are critical in increasing practice productivity and profitability. This session will focus on practice managemen trends for a high-functioning practice. Topics discussed will include: how to help your technicians succeed, diversity and equity in ophthalmology, essential practices for providing outstanding patient care, and staying safe in the ophthalmology clinic.

Retina Sub-Specialty Session (06SA23)
William Mieler, MD, Winnetka, IL
R.V. Paul Chan, MD, MBA, MSc, Chicago, IL
Srinivas Sadda, MD, FARVO, Los Angeles, CA
Michael Stewart, MD, Jacksonville, FL
Basil Williams, MD, Miami, FL
Charles Wykoff, MD, PhD, Bellaire, TX
Saturday, 8:45–11:00 a.m.
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Prerequisite: A minimum of one-year experience in a retina practice.
Description: This two-hour retina course will provide an update on current concepts and technologies, including new and emerging imaging modalities, clinical trials primarily in the setting of AMD and DME, macular diseases, uveitis, systemic disease processes impacting the retina, pediatric retinal conditions and ocular cancer.

NEW! Basic Ocular Motility (09SU1W)
Sarah Whitecross, MMedSci, OC(C), CO, Boston, MA
Sunday, 7:30–8:30 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This course will focus on the basic principles of ocular motility and ocular motility testing. Demonstrations will be followed by hands-on practice with ongoing reviews and feedback. The following principles will be presented:
1. Basic extraocular muscle anatomy & action
2. Basic horizontal (esotropia and exotropia) and vertical (hypertropia and hypotropia) strabismus
3. The difference between a phoria and tropia and how to detect them using appropriate tests (cover-uncover, alternate cover test etc)
4. Using the corneal light reflex to estimate the deviation (Hirschberg) or measure the deviation with prisms (Krimsky)
5. How to grade basic ocular motility
6. How to properly note strabismus measurements and motility

Basic Retinoscopy
David Norath, COT, Saint Louis, MO
Refer to Categories-at-a-Glance for course codes and times, p. 33
Credits: 2.00 IJCAHPO
Prerequisite: The online prerequisite, “Refraction: Optics and Instrumentation,” is required and is offered in advance of the program. Participants should also complete their choice of “Plus Cylinder Refraction” or “Minus Cylinder Refraction,” as a second prerequisite course. Upon registering for this learning lab, you will be registered for the prerequisite courses.
Description: This hands-on session will demonstrate and teach the technique of estimating the refractive error of the human eye using the streak retinoscope, loose lenses, and schematic eyes. Instruction on recording results will be included.

NEW! Clinical Skills Learning Lab 1 (08FR2W)
Carla Blackburn, BSc, COMT, CDOS, ROUB, Nepean, ON, Canada
Sunday, 8:45–9:45 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This learning lab will provide attendees with an opportunity to practice pupil assessment, color vision testing and Amsler grid testing skills.

Eye Exam in Spanish: Evaluation of the Non-Bilingual Patient (09FR67W)
Maria Gema DeCain, MD, COA, Washington, DC
Friday, 1:45–4:00 p.m.
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Description: This lab will provide an overview of the evaluation of a Spanish-speaking patient. Attendees will learn how to welcome patients, take their history and provide patient instructions for a basic exam in Spanish.

NEW! History Taking (09SU5W)
Marianne Bell, COMT, RN, CRNO, OSC, OSA, Cuyahoga Falls, OH
Sunday, 12:30–1:30 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: History taking is a skill that tests both your communication abilities and your knowledge about what to ask. This interactive lab will provide the new technician with the proper steps and questions to ask to obtain a good patient history in assisting the ophthalmologist with making the correct diagnosis. Mastering the skill of taking a detailed history provides essential techniques to put patients at ease and to be the technician that ophthalmologists need for an efficient patient exam.

23. Learning Labs

**BASIC**

Anatomy and Dissection of the Eye
Kathryn Lewis, MD, San Antonio, TX
Taylor Lind, MD, San Antonio, TX
Refer to Categories-at-a-Glance for course codes and times, p. 33
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: The instructor will perform a dissection of a pig eyeball and will discuss the anatomy and physiology of the external anatomy, cornea, iris, ciliary body, zonular apparatus, crystalline lens, vitreous body, retina, choroid and sclera. Following the demonstration, participants will have an opportunity to dissect a pig eyeball.
On-Site Course Descriptions

Ophthalmic Math (09SU34W)
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON, Canada
Sunday, 10:00 a.m.–12:15 p.m.
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Description: This lab will focus on learning how to perform basic calculations concerned with optics in ophthalmology. Participants will perform basic math including adding and subtracting positive and negative numbers, adding and subtracting in quarters and dealing with fractions before moving on to perform calculations concerned with the following: dioptries and focal lengths, prisms and the conversion of prism dioptries to degrees, spherical equivalents, transposition and Prentice's rule. Worksheets will be provided to practice the calculations, and time within the lab will be set aside for attendees to complete the worksheets with help from the instructor. The lab will finish with the practical application of math in a clinical setting. Such application would include applying spherical equivalent to contact lens fitting or visual field testing, converting radius of curvature to dioptries or converting a spectacle prescription to account for vertex distance.

NEW! Scribing (07FR7W)
Marianne Bell, COMT, RN, CRNO, OSC, OSA, Cuyahoga Falls, OH
Friday, 3:00–4:00 p.m.
Credits: 1.00 IJCAHPO
Description: This lab will be an interactive scribing session that will give the attendees the opportunity to practice recording information and improve their critical thinking. The lab will include guidelines for proper documentation, an exercise to identify training needs and suggestions on how to improve performance in the clinic.

Surgical Assisting (08FR56W)
Natalie Loyacano, COMT, OSA, ROUB, OCSR, (F)ATPO, Biloxi, MS
Friday, 12:30–2:45 p.m.
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Description: This lab will include beginning knowledge and hands-on instruction for technicians preparing to enter the ophthalmic surgery operating suite or for those who are thinking about entering the operating room in the coming year. This lab will cover general ophthalmology topics. Topics covered will include basic anatomy, types of ophthalmic surgery, surgery steps and the reason for each step and basic principles of gowning, gloving and sterile technique.

INTERMEDIATE

Assisting in Intravitreal Injections (09FR5W)
David Plumley, COA, Mentor, OH
Friday, 12:30–1:30 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This lab will introduce the participants to a practical approach to assisting in intravitreal eye injections and demonstrate strategies to reduce the potential of endophthalmitis. Asetptic techniques, lid prep, room preparation, instrument setup and control strategies will be exhibited while keeping the patient safe and comfortable during the procedures. Participants will take part in and be observed in the practice, processes and properties (knowledge, skills and attributes) to enhance the patient experience.

Cirrus HD-OCT
TBA
Refer to Categories-at-a-Glance for course codes and times, p. 33
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Description: This course will discuss clinical applications of Cirrus OCT, review proper operation of the instrument and how to read the most common analysis options. The course will focus on basic and advanced operator techniques and overcoming difficult obstacles. It will also cover troubleshooting techniques, including critiquing of current operator technique. Disclaimer: This is proprietary information presented to allow students to master a specific task or process. Alternatives to this technology may exist and a well-informed technician should have knowledge of those alternatives as well. Financial interest disclosed.

NEW! Clinical Skills Learning Lab 2 (08FR4W)
Carla Blackburn, BSc, COMT, CDOS, ROUB, Nepean, ON, Canada
Friday, 11:15 a.m.–12:15 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This lab will provide attendees with an opportunity to practice confrontational visual fields, direct ophthalmoscopy and exophthalmometry.

Contact B-Scan Ultrasonography
Kelly Babic, COA, CDOS, La Jolla, CA
Carla Blackburn, BSc, COMT, CDOS, ROUB, Nepean, ON, Canada
Refer to Categories-at-a-Glance for course codes and times, p. 33
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Description: This lab will provide comprehensive hands-on training in the fundamental skills needed to perform a basic diagnostic B-scan examination of the eye. Terminology and basic principles of examination will be demonstrated at the instrument. Students will have an opportunity to perform diagnostic B-scan evaluations on each other and to learn proper techniques of examination to provide the physician with a detailed echographic picture of the globe.

Fundus Photography
TBA
Refer to Categories-at-a-Glance for course codes and times, p. 33
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Description: A brief lecture, followed by a hands-on lab, will discuss clinical applications of fundus photography. The lab will provide an opportunity for hands-on practice with a Zeiss CLARUS 500 retinal camera, including instruction on proper operation and troubleshooting techniques. Disclaimer: This is proprietary information presented to allow students to master a specific task or process. Alternatives to this technology may exist and a well-informed technician should have knowledge of those alternatives as well. Financial interest disclosed.

NEW! Intermediate Ocular Motility Learning Lab (09SU2W)
Sarah Whitecross, MMedSci, OC(C), CO, Boston, MA
Sunday, 8:45–9:45 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Prerequisite: Knowledge of basic anatomy of extraocular muscles (EOM); basic knowledge of EOM actions; knowledge of basic strabismus; knowledge of basic strabismus measurements; and/or completion of Basic Ocular Motility Lab
Description: This course will build on skills and knowledge acquired in the Basic course including binocular function, basic sensory testing and more complex ocular motor testing. Demonstrations will be followed by hands-on practice with ongoing reviews and feedback. The following principles will be presented:
1. Basic binocular function (Hering’s and Sherrington’s Laws, Panum’s fusional area and retinal correspondence)
2. Basic sensory testing including Worth 4 Dot and stereopsis
3. Control of strabismus and effect on fusion and stereopsis
4. Grading ocular motility and differentiating ductions, versions and vergence movements
5. How to properly notate sensory and motility tests
On-Site Course Descriptions

Multimodal Imaging Made Easy
Karen McHugh, CRA, Orlando, FL
Refer to Categories-at-a-Glance for course codes and times, p. 33
Credits: 2.00 IJCAHPO, CEP: CABRN-1
Description: This course, presented by Heidelberg Engineering, will review the many imaging modalities on Heidelberg devices. The modalities include optical coherence tomography (OCT), optical coherence tomography angiography (OCTA), autofluorescence, multicolor, fluorescein and indocyanine green (ICG) angiography. The course will round out with wide field and ultra-wide field imaging, high magnification, anterior segment and cornea imaging. Cases will be presented showing the different imaging modalities.
Disclaimer: This is proprietary information presented to allow students to master a specific task or process. Alternatives to this technology may exist and a well-informed technician should have knowledge of those alternatives as well. Financial interest disclosed.

NEW! Navigating Difficult Patient Interactions
(07FR2W)
Sarah Saile, COT, Lutz, FL
Friday, 8:45 a.m.—9:45 a.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: This lab is aimed to provide tools and techniques to help technicians navigate difficult patient interactions, improve communication with patients and help provide an excellent customer service experience.

Visual Acuity Testing for Preverbal Children
(07FR5W)
Xiaosong Zhu, COMT, Wynnewood, PA
Friday, 12:30–1:30 p.m.
Credits: 1.00 IJCAHPO, CEP: CABRN-1
Description: The vision exam can be very challenging in pediatric ophthalmology. We will discuss different tools and equipment used for vision testing in very young children. This lab will include practice with Teller Acuity Cards, HOTV match card and opto-kinetic drum. Tips will be shared to help attendees feel confident testing preverbal children.

NEW! Topical Pharmaceutical Drug Delivery Innovations: The Potential Role for the New Ophthalmic Spray
TBA, EyeNovia
Refer to Categories-at-a-Glance for course codes and times, p. 33
Credits: 1.00 IJCAHPO
Description: A comprehensive overview of pharmaceutical options to induce mydriasis including the recently approved tropicamide+phenylephrine fixed dose combination ophthalmic spray. This lab will discuss issues that exist with the current process of pharmaceutical mydriasis and explore potential improvements in both patient experience and practice flow. Included will be an interactive discussion as well as hands-on demonstration of the new spray technology that may be used both in the clinic and surgical center.
Disclaimer: This is proprietary information presented to allow students to master a specific task or process. Alternatives to this technology may exist and a well-informed technician should have knowledge of those alternatives as well. Financial interest disclosed.

Ultrasound Biometry (A-Scan)
Kelly Moehrle, COMT, OSC, Rochester, PA
Rebecca Steffes, COMT, OSC, Fond Du Lac, WI
Refer to Categories-at-a-Glance for course codes and times, p. 33
Credits: 1.00 IJCAHPO
Description: This lab will provide comprehensive hands-on training in the fundamental skills needed to perform an A-scan examination of the eye. A-scan echo pattern recognition and interpretation will be discussed. Participants will understand the concepts of gain, gates and velocities and how they affect axial length measurements. Students will have an opportunity to perform A-scan evaluations on each other and learn how the A-scan instrument "thinks" to better interpret the numbers and echo patterns.
On-Site Course Descriptions

24. Certification Exam Prep Sessions

**BASIC**

**Certified Ophthalmic Assistant (COA) Certification Exam Prep Session (04FR24)**
Marianne Bell, COMT, RN, CRNO, OSC, OSA, Cuyahoga Falls, OH
Friday, 8:45 a.m.–12:15 p.m.
Credits: 0.00 IJCAHPO

**Prerequisite:** Participants should have a basic knowledge of eye anatomy, physiology and comprehension of the COA examination content areas. A minimum of six months work experience in ophthalmology is helpful.

**Description:** This course is designed to prepare the attendee for the IJCAHPO COA multiple-choice certification exam. This prep course will provide a general review of all content areas covered in the COA certification examination.

**Disclaimer:** Course material is based on the instructor’s interpretation of the content areas outlined in the IJCAHPO Criteria for Certification and Recertification Handbook. The instructors of this review course have no direct knowledge of the specific certification exam questions.

**INTERMEDIATE**

**Certified Ophthalmic Technician (COT) Certification Exam Prep Session (04SU13)**
Marianne Bell, COMT, RN, CRNO, OSC, OSA, Cuyahoga Falls, OH
Sunday, 7:30–11:00 a.m.
Credits: 3.00 IJCAHPO

**Prerequisite:** COA certification or proof of enrollment in an accredited COT program and verification from the program director will be required.

**Description:** This course is designed to prepare the attendee by providing a general review of the content areas for the IJCAHPO COT multiple-choice certification exam and the following clinical skills: retinoscopy, refinement, ocular motility, cover and alternate cover testing, keratometry, lensometry, tonometry and visual fields. An introduction to the simulation component will be provided.

**Disclaimer:** Course material is based on the instructor’s interpretation of the content areas outlined in the IJCAHPO Criteria for Certification and Recertification Handbook. The instructors of this review course have no direct knowledge of the specific certification exam questions.

**ADVANCED**

**Certified Ophthalmic Medical Technologist (COMT) Certification Exam Prep Session (04SA57)**
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON, Canada
Saturday, 12:30–4:00 p.m.
Credits: 3.00 IJCAHPO

**Prerequisite:** COT certification or proof of enrollment in an accredited COMT program and verification from the program director will be required.

**Description:** This course is designed to prepare the attendee by providing a general review of the content areas for the IJCAHPO COMT multiple-choice certification exam and the following clinical skills: versions and ductions, pupil evaluation, fundus photography and fluorescein phases, ocular motility and manual lensometry. An introduction to the simulation component will be provided.

**Disclaimer:** Course material is based on the instructor’s interpretation of the content areas outlined in the IJCAHPO Criteria for Certification and Recertification Handbook. The instructors of this review course have no direct knowledge of the specific certification exam questions.

**CDOS and ROUB Certification Exam Prep Session (04FR57)**
Craig Simms, BSc, COMT, ROUB, CDOS, Kingston, ON, Canada
Friday, 12:30–4:00 p.m.
Credits: 3.00 IJCAHPO

**Description:** This session is designed to prepare the attendee by providing a general overview of the content areas for both the IJCAHPO CDOS and ROUB multiple-choice certification exams. It will review content pertinent to both examinations including ultrasound physics followed by discussion of topics specific to each examination.

**Disclaimer:** Course material is based on the instructor’s interpretation of the content areas outlined in the IJCAHPO Criteria for Certification and Recertification Handbook. The instructors of this review course have no direct knowledge of the specific certification exam questions.

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