2023 ONLINE ACVO BASIC SCIENCE COURSE SYLLABUS & SCHEDULE
(SUBJECT TO CHANGE)
07:01h UTC May 12, 2023 – 06:59h UTC July 10, 2023

ALL TIMES ARE CO-ORDINATED UNIVERSAL TIME (UTC): You can adjust UTC to your time zone as follows:

1. The easiest way is to set your local time in Canvas using these instructions. The Canvas calendar will then automatically display all Course event times in your local time zone.
2. Subscribe to the Course Calendar via Apple or Google
3. Use an external website such as this one to manually calculate the local time of each event. If a live event is not at a good time for you, don't worry - it will be recorded and made available on Canvas within a day or two of being recorded.

ORIENTATION/WELCOME SESSION A/B
*(Please plan to attend Session A **OR** B)*
(Maggs, Thomasy, & Eaton)

An introduction to CANVAS, ZOOM, BOX, and the Basic Science Course modules to ensure that you get the most from the course. Please plan to attend Session A or B. There is no need to attend both unless you would like an additional review/have questions. A recording of the first session will be posted on Canvas for delayed/repeat viewing.

SESSION A: Sunday May 14th 15:00h UTC (~1.5 hours duration)
OR
SESSION B: Tuesday May 30th 00:00h UTC (~1.5 hours duration)

INTRODUCTION TO SCIWHEEL
(Fausak)

June 2nd 16:00h UTC (1 hour): An introduction to your free access to the Sciwheel reference management system. This session will be hosted by our UCD Health Sciences Librarian who happens to also be an RVT - Erik Fausak, MSLIS, MA, RVT, RLAT)

LIVE DISCUSSIONS with the SPEAKERS

HOW TO READ THE FOLLOWING MODULES. For each module you will first see a description of the pre-recorded lectures and their approximate duration. These can be found on Canvas, and viewed at any time and as often as you wish. However, you are _strongly_ advised to watch them _prior_ to the live discussion related to them. The time for each Live Discussions is always listed in UTC (see opening paragraph above for how to convert this to your local time). All Discussions will be recorded and can be viewed any time from their recording date until 06:59h UTC on July 10, 2023.

MODULE 1: Ophthalmic Examination Skills & Diagnostic Testing
(McLellan & Davidson, M)

Biomicroscopy, Gonioscopy, & Ophthalmoscopy	~3 hours	Mike Davidson
Tonometry, Fundoscopy, & Retinal Imaging	~4 hours	Gillian McLellan

June 5th 14:00-16:00h UTC: DISCUSSION # 1. (McLellan & Davidson, M)

MODULE 2: Ocular & Orbital Anatomy
(Murphy & Moore)

Comparative Ocular Anatomy & Histology	~4 hours	Chris Murphy
Orbital Anatomy	~1 hour	Claudio Gutierrez

June 6th 14:00-15:00h UTC: DISCUSSION # 2. (Murphy & Moore)

MODULE 3: Diagnostic Imaging – CT, MRI, Ultrasound, & UBM
(Thomasy & Phillips)

Ocular Ultrasound & Biomicroscopy	~1 hour	Sara Thomasy
Orbital Ultrasound, MR, & CT	~3 hours	Kathryn Phillips

June 7th 19:00-20:00h UTC: DISCUSSION # 3. (Thomasy & Phillips)

MODULE 4: Neuroanatomy & Neuro-ophthalmology
(Knipe, Davidson, M, and Beltran.)

Neuroanatomy	~2 hours	Maggie Knipe
Neuro-ophthalmology	~4 hours	Mike Davidson

June 8th 14:00-16:00h UTC: DISCUSSION # 4. (Knipe, Davidson, M, & Beltran.)

MODULE 5: Glaucoma Pathophysiology & Pharmacology
(Westermeyer)

Glaucoma	4 hours	Hans Westermeyer

June 9th 14:00-15:00h UTC: DISCUSSION # 6. (Westermeyer)

MODULE 6: Lab Animal Ophthalmology
(Eaton)

Lab Animal Ophthalmology	~3 hours	Seth Eaton

June 10th 14:00-16:00h UTC: DISCUSSION # 5. (Eaton)

MODULE 7: Microsurgical Principles, Phacodynamics, and Anesthesia/Analgesia
(Miller, Eaton, & Messenger)

Phacodynamics & Principles of Microsurgery I	2 hours	Seth Eaton
Phacodynamics & Principles of Microsurgery II	3 hours	Eric Miller
Anesthesia & Analgesia	2 hours	Kristen Messenger

June 12th 14:00-15:00h UTC: DISCUSSION # 7 (Miller, Eaton, & Messenger)

MODULE 8: Ocular Pathology I – Non-neoplastic Disease
(LaBelle, Naranjo, & Teixeira)

Non-neoplastic Ocular Pathology	~7 hours	Philippe Labelle Carol Naranjo Leandro Teixeira

June 13th 14:00-15:00h UTC: DISCUSSION # 8. (Labelle, Naranjo & Teixeira)

MODULE 9: Ocular Pathology II – Neoplastic Disease
(LaBelle, Naranjo, & Teixeira)

Neoplastic Ocular Pathology	~7 hours	Philippe Labelle Carol Naranjo Leandro Teixeira

June 14th 14:00-15:00h UTC: DISCUSSION # 9. (Labelle, Naranjo & Teixeira)

MODULE 10: Ocular Cytology
(Young, Vernau, & Teixeira)

Diagnostic Cytology	2 hours	Karen Young

June 15th 14:00-15:00h UTC: DISCUSSION # 10. (Young, Vernau, & Teixeira)

MODULE 11: Embryology & Genetics
(Thomasy, Petersen-Jones, & Bellone)

Embryology	3 hours	Sara Thomasy
Genetics and Patterns of Inheritance	3 hours	Simon Petersen-Jones

June 16th 19:00-20:00h UTC: DISCUSSION # 11. (Thomasy, Petersen-Jones, & Bellone)

MODULE 12: Microbiology & Antimicrobial Therapy
(Lappin, Ledbetter, & Rankin.)

Microbiology (Intraocular & systemic agents)	2.5 hours	Mike Lappin
Microbiology (Surface & orbital organisms)	2.5 hours	Eric Ledbetter
Antibiotic and Antifungal Agents	1.5 hours	Amy Rankin

June 17th 14:00-15:00h UTC: DISCUSSION # 12. (Lappin, Ledbetter, & Rankin)

MODULE 13: Immunology, Uveitis, and Immunotherapy
(Watte, Gilger, & Rankin)

Immunology & ACAID	4 hours	Christine Watté
Pathogenic Mechanisms of Uveitis, Immunomodulation, Immunotherapy, & Ocular Drug Delivery	3 hours	Brian Gilger
Anti-inflammatory & Immunosuppressive Drugs	1.5 hours	Amy Rankin

June 19th 14:00-15:00h UTC: DISCUSSION # 13. (Watte, Gilger, & Rankin)

MODULE 14: Virology & Antiviral Therapy
(Ledbetter & Maggs)

Virology & Antiviral Agents I	2 hours	David Maggs
Virology & Antiviral Agents II	2 hours	Eric Ledbetter

June 20th 14:00-15:00h UTC: DISCUSSION # 14. (Ledbetter & Maggs)

MODULE 15: Retinal Physiology & Electrodiagnostic Testing
(Komaromy, Ofri, and Mowat)

Retinal Physiology	4 hours	Andras Komaromy
Electrodiagnostic Testing	4 hours	Ron Ofri

June 21st 14:00-16:00h UTC: DISCUSSION # 15. (Komaromy, Ofri, & Mowat)

MODULE 16: Lens, Optics, & Retinoscopy
(Chandler, Ofri, & Davidson, M.)

Lens Physiology & Cataractogenesis	4 hours	Heather Chandler
Optics	4 hours	Ron Ofri
Retinoscopy	2 hours	Mike Davidson

June 22nd 14:00-1600h UTC: DISCUSSION #16. (Chandler, Ofri, & Davidson)

MODULE 17: The Ocular Surface - Physiology, Disease & Pharmacology
(Leonard, Thomasy, & Maggs)

Palpebral, Conjunctival & Tear Film Physiology	4 hours	Brian Leonard David Maggs
Corneal Physiology & Diagnostic Testing	4 hours	Sara Thomasy

June 23rd 19:00-20:00h UTC: DISCUSSION # 17. (Leonard, Thomasy, & Maggs)

MODULE 18: Drug Compounding *(G. Davidson)*

Safety and efficacy of ocular drug delivery & Compounding	1 hour	Gigi Davidson

(There is no live discussion for this lecture)

LIVE IMAGE RECOGNITION SESSIONS ("SLIDE ROUNDS")

Image Recognition Sessions (or "Slide Rounds") are informal live discussions of clinical material, typically not specifically related to any individual module, but relevant to cases you likely see in your clinics each day. They are hosted on Zoom, last ~1 hour, and will be held typically at 21:00h UTC from June 5 to June 23 (see Course Calendar for specific dates). Slides and questions will be provided in advance, and each participant will be assigned to a "Slide Group" with whom they can work through the slides. When it is their turn, each group emails their answers to Sara Thomasy (smthomasy@ucdavis.edu) in advance of their assigned Slide Rounds session. Dr. Thomasy (sometimes with guest faculty) will host these sessions and go through the answers for each slide at each session. Attendance at all sessions is optional. All sessions will be recorded and the video will be stored under the relevant Image Recognition Module in Canvas. You can watch these as many times as you wish from as soon as they are uploaded (usually within 1 day of being recorded) until the last day of the course (06:59h UTC July 10, 2023). They will be view-only and not for download.