

2021 ACVO BASIC SCIENCE ONLINE COURSE SYLLABUS/SCHEDULE
**** (SUBJECT TO CHANGE) ****

May 14, 2021 – July 12, 2021

ALL TIMES ARE USA PACIFIC DAYLIGHT SAVINGS TIME

ORIENTATION/WELCOME SESSION A
(Please plan to attend this session OR Session B)
(Maggs & Thomasy)

May 15th 4-5:30pm (1.5 hours): An introduction to CANVAS, ZOOM, BOX, and the Basic Science Course modules to ensure that 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. (Maggs & Thomasy)

ORIENTATION/WELCOME SESSION B
(Please plan to attend this session OR Session A)
(Maggs & Thomasy)

May 17th 7-8:30am (1.5 hours): An introduction to CANVAS, ZOOM, BOX, and the Basic Science Course modules to ensure that 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. (Maggs & Thomasy)

INTRODUCTION TO SCIWHEEL
(Fausak)

May 21st 3-4:30pm (1.5 hours): An introduction to your free access to the [Sciwheel](#) reference management system. (Fausak)

HOW TO READ THE FOLLOWING MODULES. For each module you will first see a description of the recorded lectures and their approximate duration. Recall that you can review these at any time, but you are strongly advised to watch them *prior* to the live discussion related to the recorded material. The time for the Live Discussion follows. Recall that these are all listed using USA Pacific Summer Time. You will need to convert to your local time zone using an [online converter such as this](#). The Live discussion sessions will be recorded and can be reviewed any time from their recording date until July 12, 2021. A reminder too that image recognition sessions (“slide rounds”) will typically be held between 3pm and 5pm (15:00-17:00h) 6 days per week from May 31-June 18, 2021.

MODULE 1: Ophthalmic Examination Skills & Diagnostic Testing
(McLellan & Heinrich)

Biomicroscopy, Gonioscopy, & Ophthalmoscopy	~3 hours	Christine Heinrich
Tonometry, Funduscopy, & Retinal Imaging	~4 hours	Gillian McLellan
May 31st 6-8am (2 hours): DISCUSSION # 1. (McLellan & Heinrich)		

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

Comparative Ocular Anatomy & Histology	4 hours	Chris Murphy
Orbital Anatomy	1 hour	Claudio Gutierrez
June 1st 7-8am (1 hour): DISCUSSION # 2. (Murphy & Gutierrez)		

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 2nd 7-8:30am (1.5 hours): DISCUSSION # 3. (Thomasy & Phillips)		

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

Neuroanatomy	2 hours	Maggie Knipe
Neuro-ophthalmology	4.5 hours	Mike Davidson
June 3rd 6-8am (2 hours): DISCUSSION # 4. (Knipe & Davidson, M.)		

MODULE 5: Lab Animal Ophthalmology
(Wilkie)

Lab Animal Ophthalmology	3 hours	Dave Wilkie
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June 4th 7-8am (1 hour): DISCUSSION # 5. (Wilkie & Eaton)

MODULE 6: Glaucoma Pathophysiology & Pharmacology
(Miller & Herring)

Glaucoma	2 hours	Paul Miller
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Glaucoma Drugs	1 hour	Ian Herring
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June 5th 7-10am (3 hours): DISCUSSION # 6. (Miller & Herring)

MODULE 7: Ocular Cytology
(Young, Vernau, & Teixeira)

Diagnostic Cytology	2 hours	Karen Young
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June 7th 7-8am (1 hour): DISCUSSION # 7. (Young, Vernau, & Teixeira)

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

Non-neoplastic Ocular Pathology	~7 hours	Philippe Labelle Carol Naranjo Leandro Teixeira
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June 8th 7-8am (1 hour): 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 9th 7-8am (1 hour): DISCUSSION # 9. (Labelle, Naranjo & Teixeira)		

MODULE 10: Microsurgical Principles, Phacodynamics, and Anesthesia/Analgesia
(Wilkie & Messenger)

Phacodynamics & Principles of Microsurgery	5 hours	Dave Wilkie
Anesthesia & Analgesia	2 hours	Kristen Messenger

June 10th 8-10am (2 hours): DISCUSSION # 10 (Wilkie, Eaton, & Miller & Messenger)

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

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

June 11th 7-8am (1 hour): DISCUSSION # 11. (Thomasy and Petersen-Jones)

MODULE 12: Microbiology & Antimicrobial Therapy
(Hendrix & Rankin.)

Microbiology	5 hours	Diane Hendrix
Antibiotic and Antifungal Agents	1.5 hours	Amy Rankin

June 12th 7-8am (1 hour): DISCUSSION # 12. (Hendrix & 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 14th 7-8am (1 hour): 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 15th 7-8am (1 hour): DISCUSSION # 14. (Ledbetter & Maggs)

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

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

June 16th 6-8am (2 hours): DISCUSSION # 15. (Komaromy & Ofri)

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 17th 6-8am (2 hours): DISCUSSION #16. (Chandler, Ofri, & Davidson)

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

Palpebral, Conjunctival & Tear Film Physiology	4 hours	Brian Leonard David Maggs
Corneal Physiology & Diagnostic Testing	4 hours	Sara Thomasy
Mydriatics, Anesthetics, Lacrimogenics/mimetics	2 hours	Ian Herring
June 18th 7-8:30am (1.5 hours): DISCUSSION # 17. (Leonard, Thomasy, Maggs, & Herring)		

MODULE 18: Drug Compounding (G. Davidson)

Safety and efficacy of ocular drug delivery & Compounding	1 hour	Gigi Davidson
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THERE IS NO LIVE DISCUSSION FOR THIS LECTURE