

Course Outline

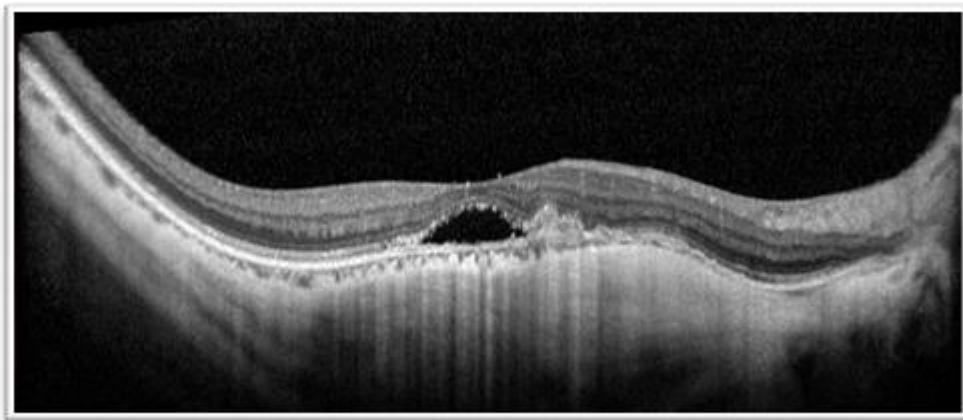
Advanced Ocular Disease 1

OPTM7511

Optometry and Vision Science

Faculty of Science

Term 2, 2020



1. Staff

Staff	Role	Name	Contact Details	Consultation Times
Course Convenor		Michele Clewett	mclewett@cfah.com.au	Via email
Additional Teaching Staff	Lecturers & Facilitators	Prof. Michael Kalloniatis Michael Yapp Paula Katalinic Dr Jack Phu Dr Angelica Ly Pauline Xu	mkalloniatis@cfah.com.au myapp@cfah.com.au pkatalinic@cfah.com.au jphu@cfah.com.au aly@cfah.com.au pxu@cfah.com.au	Via email
	Other Support Staff	Karin Mavromatis (admin)	kmavromatis@cfah.com.au	

2. Course information

Units of credit: 6

Pre-requisite(s): Ocular Disease at undergraduate level (assumed knowledge)

Teaching times and locations: Online learning consisting mostly of pre-recorded lectures with an online live tutorial fortnightly.

2.1 Course summary

This course is presented through distance learning and was designed to be self-paced such that it can be completed by both optometrists in practice and those attending university full time. The educational material is presented in 5 modules with each module designed to take students 2 weeks. At the completion of each module there is a live problem-based learning tutorial which will seek to reinforce what has been taught, and further develop student's diagnostic and analytical skills. The independent learning tasks and lectures can be undertaken at any time within those 2 weeks that is convenient to the candidate, with the exception of the 3 assessment quizzes which must be taken within the prescribed window of time. Additionally, there are 2 case reports required to be submitted during session, using specific case information supplied through Moodle, and a final examination which will also be conducted through Moodle in the UNSW official examination period. Further details of these assessment tasks will be outlined within this document.

2.2 Course aims

To advance and update the candidate's existing knowledge of the diagnosis, understanding and optometric management of ocular disease.

2.3 Course learning outcomes (CLO)

By the end of this course, students will be able to:

1. Develop a core knowledge of the epidemiology (incidence, prevalence, risk factors) of anterior and posterior eye diseases
2. Differentially diagnose anterior and posterior eye disease on the basis of signs and symptoms of the disease.
3. Understand ocular anatomy and physiology and how these are affected by the disease process.
4. Become familiar with modern ocular imaging and be able to interpret and critically evaluate the results of images generated.
5. Locate and critically evaluate current information on ocular disease.
6. Know how to manage and, where appropriate, to treat ocular disease as part of a multi-disciplinary team of treating practitioners.

2.4 Relationship between course and program learning outcomes and assessments

Course Learning Outcome (CLO)	LO Statement	Program Learning Outcome (PLO)	Related Tasks & Assessment
CLO 1	Develop a core knowledge of the epidemiology (incidence, prevalence, risk factors) of anterior and posterior eye diseases	PLO 3 PLO 4 PLO 5 PLO 6 PLO 7	Lectures Tutorials MCQ quiz Case analysis task Final exam
CLO 2	Differentially diagnose anterior and posterior eye disease on the basis of signs and symptoms of the disease	PLO 3 PLO 4 PLO 5 PLO 6 PLO 7	Lectures Tutorials MCQ quiz Case analysis task Final exam
CLO 3	Understand ocular anatomy and physiology and how these are affected by the disease process	PLO 3 PLO 4 PLO 5	Lectures Tutorials MCQ quiz
CLO 4	Become familiar with modern ocular imaging and be able to interpret and critically evaluate the results of images generated	PLO 2 PLO 3 PLO 4 PLO 5 PLO 6 PLO 7	Lectures Tutorials MCQ quiz Case analysis task Final exam
CLO 5	Locate and critically evaluate current information on ocular disease	PLO 1 PLO 3 PLO 4 PLO 6	Lectures Tutorials Case analysis task
CLO 6	Know how to manage and, where appropriate, to treat ocular disease as part of a multi-disciplinary team of treating practitioners.	PLO 1 PLO 3 PLO 4 PLO 5	Lectures Tutorials MCQ quiz Case analysis task Final exam

3. Strategies and approaches to learning

3.1 Learning and teaching activities

This course is designed to develop skills in problem solving ability, clinical management, examination and diagnosis. Teaching and learning strategies will encourage students to use clinical data to test alternate hypotheses in differential diagnosis of eye disease. Students will be encouraged to have a holistic approach and to consider the patient rather than just the ocular disease. The review questions aim to stimulate a more active learning process and encourage a deeper level of critical analysis and understanding.

The course consists of a 10 week program, presented in 5 modules that are each allocated 2 weeks to complete. Each module consists of a combination of the following components:

- Video Lectures
- Required Reading
- Online independent learning tutorials that utilise adaptive technology
- Interactive Case Studies and associated review questions
- Remedial material for students entering without appropriate background knowledge of specific areas (ocular anatomy and advanced image interpretation)
- Interactive live tutorial

These teaching strategies have been chosen to best meet the Learning Outcomes while still providing readily-accessible distance education.

The course lecture content will be supported by tutorials (both independent learning and live). Students are required to take the information presented in lectures and apply this to clinical cases in the tutorials. The online tutorial modules have remedial loops built in to help correct misunderstandings and improve practical analytical skills. In this way, students will develop a deeper understanding of the relevant topic areas.

The interactive case studies offer a practical way for students to better understand the differential diagnosis process and improve their skills at interpreting advanced ocular imaging. The extension research questions contained within the interactive case study modules are designed to consolidate and extend learning from the core material and case studies while developing the ability to source and select high quality, up to date and relevant information about ocular disease.

Assessment in this course is directly relevant to the learning tasks assigned. The three mid-term quizzes test knowledge of the material presented in lectures, and also require students to apply this knowledge to clinical cases. The case analysis tasks require students to apply the knowledge they have developed in all aspects of the differential diagnosis process to a challenging clinical case (this includes epidemiology, clinical signs and symptoms, risk factors, generation of differential diagnoses and a final diagnosis, as well as management considerations).

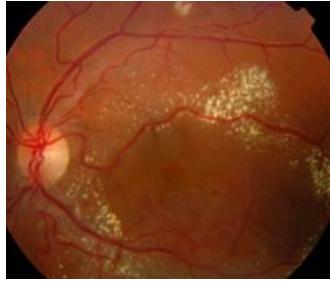
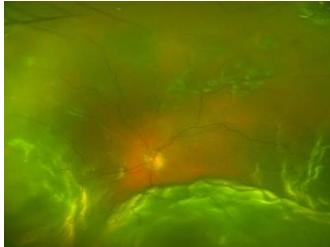
The final examination will test student's ability to not only remember relevant information about ocular disease but also apply it to clinical cases.

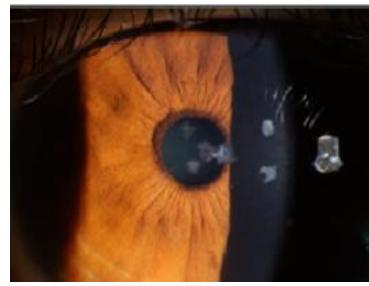
This course has all components accessible through Moodle, including course notes, lecture hand-outs, case studies, tutorials, and assessment tasks and there is no requirement to physically attend campus.

3.2 Expectations of students

Expectations of Students	<p>Any student failing to complete an assessment task within the given time frame without express prior permission from the Course Convenor will be given a mark of 0% for that assessment.</p> <p>In the event of serious illness or un-foreseen circumstances preventing a student from completing the assessment in the time frame given, students should advise the Course Convenor (by email: mclewett@cfeh.com.au) and the School immediately (phone 02 9385-4639).</p> <p>The University uses email as an official form of communication for students. All UNSW students have their own email account. The School of Optometry and Vision Science will also make use of this form of communication.</p> <p>It is extremely important that you know how to use your Zmail and ensure that you check it regularly. You are advised to link your official UNSW email address to your habitual email address (e.g. hotmail). You will miss out on vital information from the School and University if you do not check your Zmail.</p> <p>For more information or if you are having connection or access problems, see:</p> <p>IT Service Centre www.it.unsw.edu.au/ Telephone: 02 9385 1333 Email: itservicecentre@unsw.edu.au</p>
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4. Course schedule and structure

Week	Module	Synopsis
Module 1 Weeks 1 & 2		<p>Glaucoma and Disorders of the Visual Pathways</p> <p>This module reviews ocular anatomy and physiology, relating these back to anomalies of the visual pathways and cranial nerves. Different types of visual field defects are reviewed and explained helping you to interpret the more unusual results in practice. Current examination techniques, diagnosis criteria and treatments for glaucoma and other conditions affecting the optic nerve are explored.</p>
Module 2 Weeks 3 & 4		<p>Systemic Disease and the Eye</p> <p>Many systemic conditions and medications can significantly impact the eye, affecting structures from the cornea back to the retina. This module has a close look at some of the more common conditions that you would see daily in practice, including both diabetic and hypertensive retinopathies. It also looks at the adverse ocular effects of some systemic medications including Chloroquine and Tomoxifin. Neurological conditions will be explored, including thyroid disease, myasthenia gravis, oculomotor anomalies and pupil anomalies.</p>
Module 3 Weeks 5 & 6		<p>Retinal and Choroidal Disorders</p> <p>Module 3 investigates conditions affecting the retina and/or the choroid – many of which can be sight threatening. This module will help you develop confidence in identifying and managing conditions such as retinal tears and holes, retinal detachments, retinoschisis and retinal dystrophies. Pigmented lesions of the retina/RPE are investigated. An understanding of modern ocular imaging equipment (including electrophysiology) and its utility in managing retinal disease is developed through this module.</p>

Module 4 Weeks 7 & 8		Macular Disorders This module has an in-depth look at the macula, and a variety of disorders that may adversely affect central vision. The latest diagnosis and management of conditions you may routinely see in practice are covered here including ARMD, myopic macular changes, pachychoroid spectrum disease and macular oedema. Vitreomacular interface disorders are explored and the classification of macular holes explained.
Module 5 Weeks 9 & 10		Anterior Eye The final module focuses on the anterior structures of the eye, including the lids, cornea, iris, and lens. This module will help you cover a range of anterior eye conditions including corneal dystrophies, lid and iris lesions, corneal ectatic disorders and viral eye disease.

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UNSW Virtual Handbook: <http://www.handbook.unsw.edu.au>

² UNSW Timetable: <http://www.timetable.unsw.edu.au/>

5. Assessment

5.1 Assessment tasks

Task	Length	Weight	Due Date
Assessment 1: Multiple Choice Assessment	<ul style="list-style-type: none">• Quiz 1 – 45 min• Quiz 2 – 45 min• Quiz 3 – 45 min	<ul style="list-style-type: none">• 10%• 10%• 10%	<ul style="list-style-type: none">• Monday 15th June (7pm)• Monday 13th July (7pm)• Monday 3rd August (7pm)
Assessment 2: Case Analysis tasks	<ul style="list-style-type: none">• Case Analysis 1 (issued 15th June)• Case Analysis 2 (issued 13th July)	<ul style="list-style-type: none">• 15%• 15%	<ul style="list-style-type: none">• Monday 29th June (5pm)• Monday 27th July (5pm)
Assessment 3: Final Examination	<ul style="list-style-type: none">• Short answer questions	<ul style="list-style-type: none">• 40%	<ul style="list-style-type: none">• During the UNSW official examination period – date to be advised.

Further information

UNSW grading system: student.unsw.edu.au/grades

UNSW assessment policy: student.unsw.edu.au/assessment

5.2 Assessment criteria and standards

Assessments may cover ANY part of the course unless otherwise clearly specified. In addition, assessment may cover any aspect of assumed knowledge.

Multiple Choice Question Assessment: There will be 3 MCQ tests of 45 minutes duration for throughout the course (as noted above). Each multiple choice quiz is worth 10% of your Final Mark. Knowledge-specific questions and clinical cases (including images) may be included in this assessment. Information regarding cases may also be presented including patient history, signs and symptoms; clinical appearance and patient management can also be included as appropriate. Several options will be presented for each question and you will be required to select the most ACCURATE response; there will NOT be negative marking. Skills required include an develop in-depth course knowledge, a capacity for analytical and critical thinking and creative problem solving.

Case Analysis Reports: This course requires the submission of two Case analysis reports, each of which are worth 15%. The reports will be based on case information provided. Data may include patient history and entrance tests as well as the results of a clinical examination and advanced ocular imaging. Candidates will be expected to analyse the data given, generate a differential diagnosis and explain the rationale for their final diagnosis with support from the literature as required. A sample case analysis and model answer will be available on Moodle for students to refer to when preparing their report. If the Case Analysis Report is submitted late without the prior approval of the course co-ordinator, penalties below will apply (in accordance with the 2018 SOVS assessment policy):

- 10% if submitted on the due date but later than the due time.
- 20% per day if submitted after the due date

Reports are to be a maximum of 2 pages, typed in 11 pt Calibri font with normal page margins (2.54cm margins top, bottom, right and left). Any information exceeding 2 pages will not be marked.

Final Examination: The final examination for this course will use a case-based approach to examine student's understanding of the course material. This examination may cover anything taught in this course and will require the ability to apply theoretical information to clinical presentations – as skill developed throughout the learning activities within this course.

5.3 Submission of assessment tasks

Assignment Submissions	<p>Assignments (case analysis tasks) should be submitted via the Turnitin link provided on Moodle (electronic submission).</p> <p>The School Policy on Submission of Assignments (including penalties for late assignments) and the Assignment Attachment Sheet are available from the School office (RMB3.003) and the School website at: https://www.optometry.unsw.edu.au/study/undergraduate-degrees/important-information-and-policies</p>
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<p>Assessment Procedures</p> <p>UNSW Assessment Policy¹</p>	<p>SCHOOL OF OPTOMETRY AND VISION SCIENCE, UNSW</p> <p>SUPPLEMENTARY EXAMINATION INFORMATION, 2020</p> <p>SPECIAL CONSIDERATION</p> <p>On some occasions, sickness, misadventure or other circumstances beyond your control may prevent you from completing a course requirement, such as attending a formal end of semester examination. In these cases you may apply for Special Consideration. UNSW operates under a Fit to Sit/ Submit rule for all assessments. If a student wishes to submit an application for special consideration for an exam or assessment, the application must be submitted prior to the start of the exam or before an assessment is submitted. If a student sits the exam/ submits an assignment, they are declaring themselves well enough to do so. The application must be made via Online Services in myUNSW. Log into myUNSW and go to My Student Profile tab > My Student Services > Online Services > Special Consideration and attach student's supporting documentation (such as a medical certificate).</p> <p>CHRONIC ISSUES AND PRE-EXISTING CONDITIONS</p> <p>If you have chronic issues and pre-existing conditions, we recommend you apply for Educational adjustments for disability support through Disability Services. Register for Equitable Learning Support (formerly Disability Support Services) at https://student.unsw.edu.au/els/register</p> <p>Absence from a final examination is a serious matter, normally resulting in a Fail (FL) grade. If you are medically unfit to attend an examination, YOU MUST CONTACT THE SCHOOL DIRECTLY ON THE DAY OF THE EXAMINATION TO ADVISE OF THIS (telephone 02 9385 4639, email: optometry@unsw.edu.au). You must also submit a Request for Special Consideration application as detailed on the UNSW website: https://student.unsw.edu.au/special-consideration.</p> <p><u>It is the responsibility of the student to consult the web site or noticeboard to ascertain whether they have supplementary examinations. This information WILL NOT be conveyed in ANY other manner. Interstate, overseas or any other absence cannot be used as an excuse.</u></p> <p>This information will be available on the School web site at https://www.optometry.unsw.edu.au (do not confuse the School website with the myUNSW website) and posted on the notice board on Level 3. This information will be available as soon as possible after the School Examination Committee meeting.</p> <p><u>SUPPLEMENTARY EXAMINATIONS FOR 2020 WILL BE HELD AS FOLLOWS:</u></p> <p>FOR TERM 2:</p> <ul style="list-style-type: none"> • STAGE 1-3 COURSES: THURSDAY, 3 SEPTEMBER 2020 - SATURDAY, 5 SEPTEMBER 2020 • STAGE 4* COURSES: THURSDAY, 3 SEPTEMBER 2020 AND FRIDAY, 4 SEPTEMBER 2020 • THERE WILL BE NO SUPPLEMENTARY EXAMINATIONS FOR STAGE 5 STUDENTS IN TERM 2 2020
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	<p>Supplementary examinations will be held at the scheduled time only. If students who are granted supplementary examinations do not attend, a failure will be recorded for that course. Students should not make travel arrangements, or any other commitments, before establishing whether or not they have supplementary examinations. Ignorance of these procedures, interstate, overseas or any other absence will not be accepted as an excuse. But usual Special Consideration still applies.</p> <p>If additional assessment is not scheduled, this does NOT indicate whether or not a student has passed or failed the course. Results will be received in the usual way. Please do not contact the School in this regard.</p> <p>Please note the above applies to OPTM and VISN courses only. Any information on supplementary examinations for servicing courses (e.g. CHEM****) is the responsibility of the School conducting the course.</p> <p>* Stage 4 includes courses in the first year of the MClinOptom program.</p>
	School of Optometry and Vision Science, UNSW, 15 November 2019

¹[UNSW Assessment Policy](#)

5.4. Feedback on assessment

Task	Feedback		
	WHO	WHEN	HOW
1. Multiple choice quizzes (weeks 3,7,10)	Course Convenor	Within 3 days	Through Moodle – written group feedback.
2. Case analysis tasks	Course Convenor	Within 1 week	Through Moodle – provision of “model” answer and group feedback.

6. Academic integrity, referencing and plagiarism

Referencing is a way of acknowledging the sources of information that you use to research your assignments. You need to provide a reference whenever you draw on someone else's words, ideas or research. Not referencing other people's work can constitute plagiarism.

Further information about referencing styles can be located at student.unsw.edu.au/referencing

Academic integrity is fundamental to success at university. Academic integrity can be defined as a commitment to six fundamental values in academic pursuits: honesty, trust, fairness, respect, responsibility and courage.² At UNSW, this means that your work must be your own, and others' ideas should be appropriately acknowledged. If you don't follow these rules, plagiarism may be detected in your work.

Further information about academic integrity and **plagiarism** can be located at:

- The *Current Students* site student.unsw.edu.au/plagiarism, and
- The *ELISE* training site subjectguides.library.unsw.edu.au/elise

The *Conduct and Integrity Unit* provides further resources to assist you to understand your conduct obligations as a student: student.unsw.edu.au/conduct.

²International Center for Academic Integrity, 'The Fundamental Values of Academic Integrity', T. Fishman (ed), Clemson University, 2013.

7. Readings and resources

1. Textbook for this course: Bowling, B. "Kanski's Clinical Ophthalmology: A Systematic Approach" 9th edition (2020) Pub by Elsevier.
2. Additional resources and readings will be provided on Moodle

8. Administrative matters

Required Equipment, Training and Enabling Skills

Equipment Required	A PC or laptop computer with decent internet connection
Enabling Skills Training Required to Complete this Course	Reasonable English skills are required to complete this course successfully Go to UNSW Library/Online Training/LOIS and complete the full series of tutorials.

Course Evaluation and Development

Student feedback is gathered periodically by various means. Such feedback is considered carefully with a view to acting on it constructively wherever possible. This course outline conveys how feedback has helped to shape and develop this course.

Mechanisms of Review	Last Review Date	Comments or Changes Resulting from Reviews
Major Course Review	2020	This course first ran in 2015 and had a major review and update in 2020. The structure has been slightly refined again for Term 2 with the inclusion of regular tutorial sessions based on feedback through My Experience (below).
myExperience ²	2020	This student experience will be analysed through My Experience in T2. Students are strongly encouraged to complete this survey to facilitate ongoing refinement and improvement of the educational experience.

Work Health and Safety ³	Information on relevant Occupational Health and Safety policies and expectations both at UNSW and if there are any school specific requirements. Information on relevant policies and expectations is provided during General Safety Induction training. A copy of the Induction booklet distributed at this training is available from the School of Optometry and Vision Science office (RMB3.003) and the School website at: https://www.optometry.unsw.edu.au/about/information-and-policies/work-health-and-safety
Equity and Diversity	Those students who have a disability or are dealing with personal circumstances that affect their study that requires some adjustment in their teaching or learning environment are encouraged to discuss their study needs with the course Convenor prior to, or at the commencement of, their course, or with the Equity Officer (Disability) in the Equitable Learning Services (formerly Disability Support Services) at 9385 4734 or https://student.unsw.edu.au/els Issues to be discussed may include access to materials, signers or note-takers, the provision of services and additional exam and assessment arrangements. Early notification is essential to enable any necessary adjustments to be made.

Student Complaint Procedure ⁴	School Contact	Faculty Contact	University Contact
	Dr Alex Hui alex.hui@unsw.edu.au Tel: 9385 9228	A/Prof Alison Beavis Deputy Dean (Education) a.beavis@unsw.edu.au Tel: 9385 0752 Or Dr Gavin Edwards Associate Dean (Academic Programs) g.edwards@unsw.edu.au Tel: 9385 4652	Student Conduct and Integrity Unit Telephone 02 9385 8515, email studentcomplaints@unsw.edu.au
University Counselling and Psychological Services⁵	Information on Counselling and Psychological Services [CAPS] is available at: https://www.counselling.unsw.edu.au/ Tel: 9385 5418		

²myExperience process: <https://teaching.unsw.edu.au/myexperience>

³[UNSW OHS Home page](#)

⁴[Student Complaint Procedure](#)

⁵[University Counselling and Psychological Services](#)

9. Additional support for students

- The Current Students Gateway: student.unsw.edu.au
- Academic Skills and Support: student.unsw.edu.au/skills
- Student Wellbeing, Health and Safety: student.unsw.edu.au/wellbeing
- Equitable Learning Services (formerly Disability Support Services): <https://student.unsw.edu.au/els>
- UNSW IT Service Centre: www.it.unsw.edu.au/students