

OPTM6413

Anterior Eye Therapeutics

Course Outline
Term 1, 2023

School of Optometry and Vision Science
Faculty of Medicine & Health

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1. Staff

| Position | Name | Email | Consultation times and locations | Contact Details |
|-----------------|-----------------------|--|----------------------------------|-----------------------|
| Course Convenor | Prof Isabelle Jalbert | i.jalbert@unsw.edu.au | By appointment | Appointment via email |
| Lecturer | See course schedule | | | |
| Tutors | Ms Sukanya Jaiswal | s.jaiswal@unsw.edu.au | | |

2. Course information

Units of credit: 6

Pre-requisite(s): Enrolled in Master of Clinical Optometry (8095) or equivalent. Students must complete all stage 3 courses of 3182 (PHAR3306, VISN3111, OPTM3133, OPTM3201, OPTM3233, OPTM3105, OPTM3205) to enrol in this course.

Teaching times and locations: See Section 4 or [view class timetable](#).

All practicals (laboratories) are face-to-face. If you are unable to attend on-campus practicals, please contact the course convenor ahead of time.

If you are enrolling in both OPTM6400 and OPTM6413, ensure that you enrol in the same group (1, 2, or 3) for each course. A list containing details of group assignment practical time will be posted in your Moodle course prior to the first practical in Week 7.

2.1 Course summary

The scope of the course includes diseases of the lids and lacrimal system, ocular surface, and cornea; uvea; refractive surgery; epidemiology and clinical trials of anterior eye disease; differential diagnosis; new diagnostic tools; management strategies to include both current and future therapeutic approaches, influence of therapy on disease course, iatrogenic disease and anterior eye manifestations of systemic diseases; management of chronic disease, referral criteria and surgical management; management of myopia and amblyopia; prescription writing, record keeping, liaising with other health care professionals; legal framework and obligations, ethics, co-management.

2.2 Course aims

This course aims to provide an in-depth understanding of the therapeutic and non-therapeutic management of anterior eye diseases and the role of the optometrist in this process.

2.3 Course learning outcomes (CLO)

Students are expected to demonstrate understanding and competence in specific areas described in the Optometry Australia Entry-Level Competency Standards for Optometry 2014 (Kiely PM & Slater J, 2015).

At the successful completion of this course you (the student) should be able to:

1. Design, develop, apply, evaluate the efficacy of, and revise a management plan for selected ocular diseases (allergic, infectious, inflammatory and other miscellaneous conditions of the anterior eye) based on a sound understanding of the signs, symptoms, underlying pathophysiology, laboratory results, epidemiology and the health status and history of the patient for conditions which may require either pharmacological or non-pharmacological treatment or intervention. (ELC 1.1, 1.2, 1.3, 1.10, 1.12, 3.1, 3.2, 3.3, 3.8, 4.1, 4.2, 4.9, 4.11)
2. Describe the legal ramifications of the Australian and/or New Zealand and/or state laws and Optometry Board of Australia and/or Optometrists and Dispensing Opticians Board of New Zealand policies, codes and guidelines as they pertain to the profession of optometry including the prescribing of S4 drugs by optometrists. Recognise circumstances in which referral for specialist medical treatment is required and understand emergencies and serious complications that may be associated with anterior eye disease and their treatment, so that these can be identified and

managed promptly. This will also include the reporting of notifiable diseases and infection control. (ELC 1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 1.10, 4.9, 4.11, 4.13)

3. Be able to define and discuss the pharmacology, complications, side effects, efficacy and cost of ocular drugs used in the treatment of anterior eye disease and interactions between ocular and systemic drugs and how to prescribe these so as to avoid and/or manage complications. (ELC 4.9)
4. Plan and execute appropriate shared care arrangements for your patients, including recognising the legal and ethical implications of such arrangements. Interact effectively with other health care providers. (ELC 1.2, 1.3, 1.4, 1.5, 1.6, 1.9, 4.11, 4.13)
5. Locate and critically evaluate high quality current information on eye and adnexa disease and its management. (ELC 1.1, 1.2)
6. Communicate orally and in a written fashion to patients and allied health professionals in a precise and informative way. (ELC 1.2, 1.5, 2.1, 2.3, 2.4, 2.5, 5.1)
7. Integrate knowledge gained in other optometry courses and the current course.

2.4 Relationship between course and program learning outcomes and assessments

| Course Learning Outcome (CLO) | LO Statement | Related Tasks & Assessment |
|-------------------------------|--|---|
| CLO 1 | Design, develop, apply, evaluate the efficacy of, and revise a management plan for selected ocular diseases (allergic, infectious, inflammatory and other miscellaneous conditions of the anterior eye) based on a sound understanding of the signs, symptoms, underlying pathophysiology, laboratory results, epidemiology and the health status and history of the patient for conditions which may require either pharmacological or non-pharmacological treatment or intervention. | A 1: Practical: Short PBL Virtual Cases A 2: Midterm A 3: Final Examination |
| CLO 2 | Describe the legal ramifications of the Australian and/or New Zealand and/or state laws and Optometry Board of Australia and/or Optometrists and Dispensing Opticians Board of New Zealand policies, codes and guidelines as they pertain to the profession of optometry | A 1: Practical: Short PBL Virtual Cases A 2: Midterm A 3: Final Examination |

| | | |
|-------|---|--|
| | <p>including the prescribing of S4 drugs by optometrists.</p> <p>Recognise circumstances in which referral for specialist medical treatment is required and understand emergencies and serious complications that may be associated with anterior eye disease and their treatment, so that these can be identified and managed promptly. This will also include the reporting of notifiable diseases and infection control.</p> | |
| CLO 3 | <p>Be able to define and discuss the pharmacology, complications, side effects, efficacy and cost of ocular drugs used in the treatment of anterior eye disease and interactions between ocular and systemic drugs and how to prescribe these so as to avoid and/or manage complications.</p> | <p>A 1: Practical: Short PBL Virtual Cases</p> <p>A 2: Midterm</p> <p>A 3: Final Examination</p> |
| CLO 4 | <p>Plan and execute appropriate shared care arrangements for your patients, including recognising the legal and ethical implications of such arrangements. Interact effectively with other health care providers.</p> | <p>A 1: Practical: Short PBL Virtual Cases</p> <p>A 2: Midterm</p> <p>A 3: Final Examination</p> |
| CLO 5 | <p>Locate and critically evaluate high quality current information on eye and adnexa disease and its management.</p> | <p>A 1: Practical: Short PBL Virtual Cases</p> |
| CLO 6 | <p>Communicate orally and in a written fashion to patients and allied health professionals in a precise and informative way.</p> | <p>A 1: Practical: Short PBL Virtual Cases</p> <p>A 2: Midterm</p> <p>A 3: Final Examination</p> |
| CLO 7 | <p>Integrate knowledge gained in other optometry courses and the current course.</p> | <p>A 1: Practical: Short PBL Virtual Cases</p> <p>A 2: Midterm</p> <p>A 3: Final Examination</p> |

3. Strategies and approaches to learning

3.1 Learning and teaching activities

Throughout this course we will use:

- The course content to develop clinical management strategies;
- Example cases to consolidate and evaluate content knowledge and clinical management skills and assess your ability to source and select "best practice" material on the internet;
- Facilitated tutorials to help you to apply the material taught in the course in practice;
- Invited lecturers to develop multi-disciplinary management strategies and discuss broader issues relating to disability, public health, and co-management.

The course consists of a 10-week program delivered internally through weekly pre-recorded lectures and/or webinars, and associated compulsory readings featuring key seminal papers for the profession of Optometry. This is supported in the first half of the course by face to face interactive tutorials where example cases and exercises are worked through; consolidation of learning in the second half of the course occurs through face to face practicals (laboratories) where short Problem-Based Learning (PBL) sessions are held and students solve virtual cases. The Moodle component of this course provides access to the majority of the course notes, compulsory and optional readings, useful on-line resources, additional case reports and a venue for on-line discussions.

3.2 Expectations of students

Students are reminded that UNSW recommends that a 6 units-of-credit course should involve about 150 hours of study and learning activities. The formal learning activities total approximately 50 hours throughout the term and students are expected (and strongly recommended) to do at least the same number of hours of additional study.

Class tutorials are held six times during session (Weeks 1 to 6). It is a requirement of attendance at the tutorials that you view the online lectures and critically read the compulsory readings each week prior to attendance. A tutor will present one or a series of practice exercises during these sessions and be on hand to assist students to solve and answer these cases during class time. There are no marked assessment associated with these tutorials.

- Attendance at the tutorials (Weeks 1 to 6) is expected. Although a summary of the tutorials will be posted to Moodle, the interactive components cannot be recorded and therefore attendance is **STRONGLY** recommended in order to ensure full benefit.
- Attendance at ALL the practicals (laboratories) is compulsory (Weeks 7 to 10).
- Please wear your name badge during the tutorials (Weeks 1 to 6) and practicals (Weeks 7 to 10).
- Bring a laptop computer or tablet to the tutorials (Weeks 1 to 6) and practicals (Weeks 7 to 10).
- Although lectures (Weeks 3 to 9) are provided in hybrid format and recorded for later viewing, attendance is recommended unless indicated as a webinar (online only).

4. Course schedule and structure (Check periodically online for changes)

This course consists of 50 hours of class contact hours including online lectures. You are expected to take an additional minimum of 50 (and up to 100 hours) of non-class contact hours to complete assessments, readings and exam preparation.

| Course components | WEEK1 | WEEK2 | WEEK3 | WEEK4 | WEEK5 | WEEK6 | WEEK7 | WEEK8 | WEEK9 | WEEK10 |
|---|--|---|---|---|---|---|---|--|---|-----------------------------------|
| Pre-recorded lectures (Moodle) | (13-17 Feb) Course Outline Optometric Prescribing Special Population Prescribing Ocular Drug Formulation & Delivery | (20-24 Feb) Anti-bacterials Antiviral and other anti-infectives Corticosteroids and Immunomodulatory Drugs Drug resistance (Prof Mark Willcox) Clinical Drug Resistance (Dr Alex Hui) | (27 Feb-3 March) NSAID Drugs Anti-allergic drugs Mydriatics, cycloplegics and pain management | (6-10 March) Ocular lubricants Other preparations Lid diseases & blepharitis Dry Eye Disease & MGD | (13-17 March) NO LECTURES | (20-24 March) Conjunctival disease Microbial keratitis Contact Lens Complications Corneal conditions | (27-31 Mar) Viral Corneal Infections Episcleritis Scleritis Uveitis | (3-6 April)* Therapeutic Management of Amblyopia Therapeutic Management of Myopia | (11-14 April)* NO LECTURES | (17-21 Apr) NO LECTURES |
| (Hybrid) Lectures Fri 10am to 12pm (CLB 1) | NO WEBINARS (See online pre-recorded Lectures) | | Red Eye Emergency (Lily Ho) | Paediatric prescribing (Rebecca Dang) | Bacterial & Acanthamoeba Keratitis (Prof Fiona Stapleton) | Webinar (online only): Co-Management: Principles, Refractive & Cataract Surgery (Dr Melinda Toomey) | Viral Infections (A/Prof Con Petsoglou) | View pre-recorded Webinar: (epi)scleritis, & uveitis (A/Prof Con Petsoglou) | Therapeutic Management of Dry Eye Disease (Prof Fiona Stapleton) Exam Review (TBC) | TBC or Exam Review |
| Tutorials Friday 1pm to 3pm (Mathews 103) | Tutorial 1 | Tutorial 2 (Led by Amanda Lea / Rebecca Dang) | Tutorial 3 | Tutorial 4 | Tutorial 5 | Tutorial 6 | NO TUTORIALS | | | |
| Practicals (RMB 3.051) Tues 11am start Thurs 11am or 2pm start | NO PRACTICALS | | | | | | Practical 1 | Practical 2 | Practical 3 | Practical 4 |
| EXAMS | | | | | Monday 13 March 11am to 1pm MID-TERM EXAM (Quad G031/G032/G044/G045) | Friday 24 March 9am-10am Mid-Term Review (F2F only, room TBA) | | | | |

Exam Period: 28 April – 11 May

School managed supplementary exams period:

FOR TERM 1:

- STAGE 1-4* COURSES: WEDNESDAY, 17 MAY 2023 – FRIDAY, 19 MAY 2023
- THERE WILL BE NO SUPPLEMENTARY EXAMINATIONS FOR STAGE 5 STUDENTS IN TERM 1 2023

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.**

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.

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.

* Stage 4 includes courses in the first year of the MClinoptom program.

5. Assessment

5.1 Assessment tasks

| Assessment task | Length | Weight | Mark | Due date and time |
|--|---|--------|------|---|
| Assessment 1: Practical: Short Problem-Based Learning (PBL) Virtual Cases | Practical classes are held five times during session. The class is divided into groups and each group is assigned practical class times. These are held in the OMB computer laboratory located at LG21. In groups of two, students will be allocated cases (anonymised patient records) to work on. This will typically contain presenting symptoms, history findings and key examination findings. Students will have one hour to review the case information provided and agree on a proposed diagnosis and management strategy. Using textbooks, electronic databases, scientific journals and the internet, | 15% | 100% | Approximately 6 students per class (or 24 students per week) are assessed across 4 practicals held from weeks 7 to 10. Students should be prepared to present at any time. |

| | | | | |
|--|---|-----|------|---|
| | <p>students are to ensure that their proposed management strategy reflects the latest evidence-based treatment for the condition they have diagnosed. During the second hour, a number of groups (3 on average), selected by tutors, will present their findings to the rest of the class, justifying their diagnosis and proposed management, and answer questions from their peers and lecturers. A group mark will be assigned for each team.</p> | | | |
| <p>Assessment 2: Mid-Term Examination</p> | <p>The exam will be a comprehensive review of ALL the material covered in the session so far including prescribed readings and pre-recorded material posted on Moodle. Aspects of assumed knowledge may be specifically or indirectly assessed, most particularly knowledge gained in Ocular Diseases 3A & 3B and basic ocular anatomy and physiology. Exam questions will be in the format of multiple choice questions, script writing questions and essay questions, which is the same format as that of the Final Examination. This mid-term will provide students with an opportunity to familiarise themselves with the format and structure that will be adopted in the Final Examination and to get individual (mark) and group feedback on their performance. This assessment will help you develop an ability to engage in independent and reflective learning, an ability to integrate the breath of ocular therapeutic information into a useful clinical practice tool, and help ensure that you are competent to proceed into Clinical Ocular Therapy in the 5th year of the Optometry program.</p> | 30% | 100% | <p>Week 5: BYOD Open Book Exam (Quad G031/G032/G044/G045)</p> <p>Monday 13th March 11am to 1pm</p> |

| | | | | |
|---|---|-----|------|--|
| Assessment 3: Final Examination | The final exam will be a comprehensive review of ALL material covered in this session, including prescribed readings, material presented by invited lecturers and pre-recorded material posted on Moodle. Aspects of assumed knowledge may be specifically or indirectly assessed, most particularly knowledge gained in Ocular Diseases 3A & 3B and basic ocular anatomy and physiology. The exam will be a combination of multiple choice questions, script writing and essay questions, in the same format as the mid-term. This assessment will help students develop an ability to engage in independent and reflective learning, an ability to integrate the breadth of ocular therapeutic information into a useful clinical practice tool, and will help ensure that they are competent to proceed into Clinical Ocular Therapy in the 5th year of the Optometry program. | 55% | 100% | BYOD Open Book Exam Date and location TBA |
|---|---|-----|------|--|

Further information

UNSW grading system: <https://student.unsw.edu.au/grades>

UNSW assessment policy: <https://student.unsw.edu.au/assessment>

5.2 Assessment criteria and standards

Marks are allocated for accuracy of diagnosis, differentials, safety, appropriateness and comprehensiveness of proposed management, prognosis, ability to source and select the most appropriate references, clarity and succinctness of presentation (verbal or written).

5.3 Submission of assessment tasks

Late Submission

UNSW has standard late submission penalties as outlined in the UNSW Assessment Implementation Procedure, with no permitted variation. All late assignments (unless extension or exemption previously agreed) will be penalised by 5% of the maximum mark per day (including Saturday, Sunday and public holidays). For example, if an assessment task is worth 30 marks, then 1.5 marks will be lost per day (5% of 30) for each day it is late. So, if the grade earned is 24/30 and the task is two days late the student receives a grade of 24 – 3 marks = 21 marks.

Late submission is capped at 5 days (120 hours). This means that a student cannot submit an assessment more than 5 days (120 hours) after the due date for that assessment.

Special Consideration

If you experience a short-term event beyond your control (exceptional circumstances) that impacts your performance in a particular assessment task, you can apply for Special Considerations.

You must apply for Special Consideration **before** the start of your exam or due date for your assessment, except where your circumstances of illness or misadventure stop you from doing so.

If your circumstances stop you from applying before your exam or assessment due date, you must **apply within 3 working days** of the assessment, or the period covered by your supporting documentation.

More information can be found on the [Special Consideration website](#).

5.4. Feedback on assessment

| Task | Feedback | | |
|--|---|---|---|
| | WHO | WHEN | HOW |
| Assessment 1: Practical: Short PBL Virtual Cases | Course Convenor or Tutor | During examination and approximately 1 to 2 weeks after oral presentation | Verbal, marks and written <u>group</u> feedback |
| Assessment 2: Midterm Examination | Course Convenor or Tutor | Approximately 1 week after | Marks (individual) and mid-term review (group feedback) |
| Assessment 3: Final Examination | Course Convenor or Exams Section notification | May / June | Marks |

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.

Please use Vancouver or APA referencing style for this course. Change to referencing style used in your course

Further information about referencing styles can be located at <https://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.¹ 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 <https://student.unsw.edu.au/plagiarism>, and
- The ELISE training site <https://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: <https://student.unsw.edu.au/conduct>.

7. Readings and resources

1. Gervasio K and Peck T. **"The Wills Eye Manual"** Wolters Kluwer, 8th edition, 2021.
2. Pharmaceutical Society of Australia. **"Australian Medicines Handbook 2023"**. Adelaide, 2023. Available as an EBook through the UNSW library.
3. Hoffmann T, Bennett S, Del Mar C. **"Evidence-Based Practice Across the Health Professions"**, Elsevier, 3rd edition, 2017. Available as an EBook through the UNSW library.
4. Bruce AS & Loughnan MS. **"Anterior Eye Disease and Therapeutics"**, Butterworth-Heinemann, 2nd edition, 2011. A copy is held at the UNSW library.
5. Salmon JF. **"Kanski's Clinical Ophthalmology: A systematic approach"**, Elsevier, 9th edition, 2019. [8th edition by Bowling B available as an EBook through the UNSW library].

The first textbook is prescribed. Others are recommended as useful resources if you wish to consider purchasing additional books. Compulsory and optional readings as specified by the lecturers throughout the session will be listed on Moodle through the compulsory **Leganto Reading List** and provided when not accessible on-line through the UNSW library.

8. Administrative matters

Student enquiries should be submitted via student portal <https://portal.insight.unsw.edu.au/web-forms/>

9. Additional support for students

- The Current Students Gateway: <https://student.unsw.edu.au/>
- Academic Skills and Support: <https://student.unsw.edu.au/academic-skills>
- Student Wellbeing and Health <https://www.student.unsw.edu.au/wellbeing>
- UNSW IT Service Centre: <https://www.myit.unsw.edu.au/services/students>
- UNSW Student Life Hub: <https://student.unsw.edu.au/hub#main-content>
- Student Support and Development: <https://student.unsw.edu.au/support>
- IT, eLearning and Apps: <https://student.unsw.edu.au/elearning>

¹ International Center for Academic Integrity, 'The Fundamental Values of Academic Integrity', T. Fishman (ed), Clemson University, 2013.

- *Student Support and Success Advisors:* <https://student.unsw.edu.au/advisors>
- *Equitable Learning Services (Formerly Disability Support Unit):* <https://student.unsw.edu.au/els>
- *Transitioning to Online Learning* <https://www.covid19studyonline.unsw.edu.au/>
- *Guide to Online Study* <https://student.unsw.edu.au/online-study>

10. Current version of NSW Work and Health Safety regulation and Act if required