Course Outline

Revised due to COVID-19

OPTM6400

OPTOMETRIC PRECLINICAL PRACTICE

Optometry and Vision Science

Faculty of Science

Term 1, 2020

1. Staff

Position	Name	Email	Consultation times and locations	Contact Details
Course Convenor	Dr Maria Markoulli	m.markoulli@unsw.edu.au	By appointment	m.markoulli@unsw.edu.au
Lecturer	Dr Lisa Asper	l.asper@unsw.edu.au	By appointment	l.asper@unsw.edu.au
Practical demonstrators	Dr Donna La Hood	Please contact via course convenor		

2. Course information

Units of credit: 6

Pre-requisite(s): Enrolment in program 8095 Master of Clinical Optometry or 3182 Bachelor of Vision Science / Master of Clinical Optometry

Teaching times and locations:

Component	HPW	Time	Day	Location
Lectures	*3 (weeks 1-3)* *2 (weeks 4-10)*			
Lecture 1 and 2#	*2*	*1PM-3PM*	*Tuesday*	*ChemScM10*
Lecture 3	*1 (weeks 1-4)*	*11AM-12PM*	*Friday*	*CLB3*
Pre-clinical laboratory*	*4*			
Pre-clinical laboratory 1**	*2*	*See my.unsw.edu.au*	*See my.unsw.edu.au*	*Pre-clinic lab, RMB*
Pre-clinical laboratory 2***	*2*	*See my.unsw.edu.au*	*See my.unsw.edu.au*	*Pre-clinic lab, RMB*
Moodle discussions	0.5	Prior to lectures		*Moodle*
Moodle quizzes & videos	0.5	Prior to pracs		*Moodle*

Lecture 1 and 2 will continue to run
* Please note that pracs from week 5 onwards will not be held face-to-face
** Prac 1 from week 6 onwards will be held online via TEAMS
*** Prac 2 will not be held from week 6 onwards

2.1 Course summary

This course will build upon your experiences in the BVisSci course and complete your learning of the basic principles of refraction, binocular vision and ocular health assessment. Aspects of primary optometric care relating specifically to the assessment, analysis and management of more complex refractive errors, binocular vision disorders and the integrity of the eye and visual pathways will be presented both theoretically and in practical terms in an integrated fashion and with particular reference to normal anatomy and physiology of the eye. This course will be delivered by lectures, practical classes and self-directed learning. Brief curriculum: communication skills, eliciting presenting concerns, history and symptoms; refraction and the management of refractive errors, the assessment and management of binocular vision disorders; the anterior eye and ocular adnexa, ocular media, the normal fundus, and intraocular pressure; introduction to diagnostic drugs; acquisition of technical skills with fundus lenses, gonioscopy, tonometry; introduction to advanced clinical imaging; professionalism and evidence-based practice.

2.2 Course aims

This course aims to introduce students to the theory and practical aspects of the techniques involved in a routine clinical examination.

2.3 Course learning outcomes (CLO)

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

1. Elicit presenting concerns, history and symptoms using empathetic intentional interviewing skills
2. Know why, when and how to examine the general integrity of the central nervous system and aspects of patient anatomy and posture relating to the needs of the visual system
3. Select and apply appropriate tests to determine the spherical, astigmatic and presbyopic components of the refractive status for a range of presentations and perform a cycloplegic examination where appropriate
4. Understand the classes of diagnostic drugs used during an optometric examination, restrictions on their use by students at UNSW, limitations to their use with respect to a particular patient, instillation techniques
5. Know why, when and how to examine the anterior eye and adnexa and be able to differentiate normal from abnormal
6. Know why, when and how to examine the posterior eye with binocular instruments, and be able to differentiate normal from abnormal
7. Know why, when and how to examine the anterior chamber angle using gonioscopy and grade this
8. Know why, when and how to determine intraocular pressure, and be able to differentiate normal from abnormal based upon population statistics as well as within-user and between-user variations on a range of instrument designs
9. Conduct an effective clinical examination by being able to critique a case study and be able to
    a. integrate the findings of clinical tests to produce a valid clinical management plan
    b. keep accurate records of all findings
    c. interpret the results of diagnostic imaging techniques and identify their clinical application
    d. diagnose and treat non-strabismic accommodation and binocular vision disorders

2.4 Relationship between course and program learning outcomes and assessments

Please refer to the Vision Science/Clinical Optom – 3182 program:
http://www.handbook.unsw.edu.au/undergraduate/programs/2018/3182.html

* Please note: due to COVID-19, there will be no prac exam for this course.

Course Learning Outcome (CLO)	LO Statement	Program Learning Outcome (PLO)	Related Tasks & Assessment*
CLO 1	Elicit presenting concerns, history and symptoms using empathetic intentional interviewing skills	PLO 1 PLO 2 PLO 3 PLO 4 PLO 5 PLO 6 PLO 7	Lectures and Pracs Mid-sem exam
CLO 2	Examine the general integrity of the central nervous system and aspects of patient anatomy and posture relating to the needs of the visual system	PLO 1 PLO 2 PLO 3 PLO 4 PLO 5 PLO 6 PLO 7	Lectures and Pracs Mid-sem exam
CLO 3	Select and apply appropriate tests to determine the spherical, astigmatic and presbyopic components of the refractive status for a range of presentations and perform a cycloplegic examination where appropriate	PLO 1 PLO 2 PLO 3 PLO 4 PLO 5 PLO 6 PLO 7	Lectures and Pracs
CLO 4	Describe the classes of diagnostic drugs used during an optometric examination, restrictions on their use by students at UNSW, limitations to their use with respect to a particular patient, instillation techniques	PLO 1 PLO 2 PLO 3 PLO 4 PLO 5 PLO 6 PLO 7	Lectures and Pracs Mid-sem exam
CLO 5	Examine the anterior eye and adnexa and be able to differentiate normal from abnormal	PLO 1 PLO 2 PLO 3 PLO 4 PLO 5 PLO 6 PLO 7	Lectures and Pracs Mid-sem exam
CLO 6	Evaluate the posterior eye with binocular instruments, and be able to differentiate normal from abnormal	PLO 1 PLO 2 PLO 3 PLO 4	Lectures and Pracs Mid-sem exam

		PLO 5 PLO 6 PLO 7	Final theory exam
CLO 7	Assess and grade the anterior chamber angle using gonioscopy	PLO 1 PLO 2 PLO 3 PLO 4 PLO 5 PLO 6 PLO 7	Lectures and Pracs Mid-sem exam Final theory exam
CLO 8	Measure intraocular pressure and be able to differentiate normal from abnormal based upon population statistics as well as within-user and between-user variations on a range of instrument designs	PLO 1 PLO 2 PLO 3 PLO 4 PLO 5 PLO 6 PLO 7	Lectures and Pracs Mid-sem exam Final theory exam
CLO 9	Conduct an effective clinical examination by being able to critique a case study and be able to 1) integrate the findings of clinical tests to produce a valid clinical management plan 2) keep accurate records of all findings 3) interpret the results of diagnostic imaging techniques and identify their clinical application 4) diagnose and treat non-strabismic accommodation and binocular vision disorders	PLO 1 PLO 2 PLO 3 PLO 4 PLO 5 PLO 6 PLO 7	Lectures and Pracs Final theory exam

3. Strategies and approaches to learning

3.1 Learning and teaching activities

Students are required to take part in **Moodle discussions prior to each new lecture topic** in order to facilitate lecture preparation and hence greater understanding in the lecture setting. Lectures will provide the necessary background and theory underpinning content covered by this course. It is expected that students will supplement the content provided in lectures with **recommended reading.**

Prior to attending practical classes, students are required to complete a **Moodle quiz** and, where applicable, **watch the related clinical video on Moodle**. The Moodle quiz endeavours to ensure that students have adequately prepared for the upcoming practical class, while the clinical video can be watched prior to, during and after the practical classes as guidance.

Practical classes give students the opportunity to master the techniques introduced in the lecture. Where students do not complete the required task, they are to return in their own time.

Use of simulation: In order to facilitate the learning of practical skills, the following simulation facilities are available to students enrolled in OPTM6400:

1. Binocular Indirect Ophthalmoscope (EyeSys BIO simulator, room 3.019). Book a maximum of 2 one-hour sessions using Doodle.*** Due to COVID-19, this is no longer required

RATIONALE

OPTM6400 builds on the knowledge obtained in the undergraduate program and encourages students to take responsibility for their own learning. While many resources are available e.g. clinical videos, lecture notes, recommended readings, Moodle discussions and smaller supervised practical classes, it is students' responsibility to ensure that they have achieved the learning outcomes for this course. This will prepare students for the life-long learning that is expected from a health care professional.

3.2 Expectations of students

Expectations of Students	Some components of this course are compulsory, and you are expected to attend. Attendance at compulsory course components will be monitored by taking a roll. The compulsory course components, and the justification for their compulsory nature, are as follows: • Preparation for lectures and practicals is crucial. It is important and assumed that students will keep up with the required readings, complete pre-prac quizzes, watch relevant Moodle videos and participate in Moodle discussions. • All practical classes are COMPULSORY*** because they act to reinforce theoretical components of the course, while teaching critical practical clinical skills prior to use in the clinic in the final years of the program. Any absences due to illness must be accounted for by a medical certificate presented to Dr Markoulli (and may be required to be sent to Student Central pending the number of absences). Attendance will be monitored by taking the roll. • There can be no swapping between practical groups, including practicals that involve cycloplegia or dilation. • Punctuality is expected. Lateness for practical classes may be recorded as an absence. Contact the Laboratory Supervisor Dale Larden (9385 4623) if you are running late so your partner can be put to alternate work. *** Until week 5. Practical classes are nor running from week 6. 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. 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. For more information or if you are having connection or access problems, see: **IT Service Centre** www.it.unsw.edu.au/ Telephone: 02 9385 1333 Email: itservicecentre@unsw.edu.au

4. Course schedule and structure

Some of this information is available on the *Online Handbook*[1] *and the UNSW Timetable*[2].

* Practical content from weeks 6 onwards will be taught in a revised format on return to university post COVID-19. Revision time will be made available to revise content from weeks 1-5 also. However, Prac 1 will continue to run as a tutorial online.

Week	Lecture 1	Lecture 2	Lecture 3	Prac 1*	Prac 2*
Week 1	Intro & Communication skills Maria Markoulli	History and Symptom-taking Maria Markoulli	Distance refraction Maria Markoulli	History & Symptom taking	Distance refraction
Week 2	Distance refraction & Myopia control Maria Markoulli & Pauline Kang	Near Refraction Maria Markoulli	Diagnostic drugs Lisa Asper	Distance refraction	Distance + Near refraction
Week 3	Clinical slit-lamp Maria Markoulli	Tonometry Maria Markoulli	Gonioscopy Maria Markoulli	Slit-lamp + Tonometry (no CL wear)	Tonometry (no CL wear)
Week 4	Fundoscopy Maria Markoulli	BIO Maria Markoulli	MID-TERM Dale Larden	Tonometry (no CL wear)	Tonometry (no CL wear)
Week 5	Review quiz and discussion of issues that arise Lisa Asper	Overview of deviations, accommodation dx and tx Lisa Asper		BV	
Week 6	Mid-term feedback + COVID-19 changes Maria Markoulli	BV case analysis - graphical Lisa Asper		Gonioscopy tutorial	
Week 7	BV case analysis - graphical Lisa Asper	BV case analyses – integrative Lisa Asper		Fundoscopy / BIO tutorial	
Week 8	BV case analyses – integrative Lisa Asper	Choosing VT, prism or lenses; VT basics Lisa Asper		BV	
Week 9	Order of testing in clinic, and Case studies Lisa Asper	Revision Lisa Asper		BV	
Week 10	Revision Lisa Asper	Revision Maria Markoulli		Full consult	

[1] 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	Knowledge & abilities assessed	Assessment Criteria	% of total mark	Date of		Feedback		
				Release	Submission	WHO	WHEN	HOW
THEORY: NEED >50% IN THE OVERALL COURSE MARK TO PASS								
Mid-term exam	This mid-term exam will assess the theory aspects of the first 4 weeks of the course.	Multiple Choice Questions	50%	Week 4, lecture 3	N/A	Dr Maria Markoulli	Week 6, Lecture 1	Marks and answers discussed in class
Weekly quizzes	Demonstrates preparation for the practical class	Multiple Choice Questions. Must be completed prior to coming to prac class	No mark allocated	Prior to each new practical topic	Prior to each new practical topic	Dr Maria Markoulli	Immediately after submission	Moodle marks
Weekly Moodle discussions	Demonstrates preparation for the lecture topic	Contribution to the Moodle discussion	No mark allocated	Prior to each new lecture topic	Prior to each new lecture topic	Dr Maria Markoulli	During the week leading up to that lecture	Discussion during lecture and via Moodle
Final written theory exam	Demonstrate knowledge of the theoretical and practical aspects of the course. Please consult Moodle for details.	Short answer exam and essay responses	50%	During exam period	During exam period	Final marks released on my.unsw.edu.au for the whole course (not the exam separately)		
Competency in clinical skills	Competency will be demonstrated during the pracs to be held post COVID-19. Not required to pass this course.	The demonstrator will complete a checklist to indicate competency and preparedness for clinic.		During the practical classes on return from COVID-19.	Final marks released on my.unsw.edu.au for the whole course (not the exam separately).			

Further information: UNSW grading system: student.unsw.edu.au/grades UNSW assessment policy: student.unsw.edu.au/assessment

Assessment Procedures **UNSW Assessment Policy**[1]	**SCHOOL OF OPTOMETRY AND VISION SCIENCE, UNSW** **SUPPLEMENTARY EXAMINATION INFORMATION, 2020** **SPECIAL CONSIDERATION** 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). **CHRONIC ISSUES AND PRE-EXISTING CONDITIONS** 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 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 029385 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. **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.** 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. **SUPPLEMENTARY EXAMINATIONS FOR 2020 WILL BE HELD AS FOLLOWS: FOR TERM 1:** • **STAGE 1-4* COURSES: THURSDAY, 21 MAY 2020 – SATURDAY, 23 MAY 2020** • **THERE WILL BE NO SUPPLEMENTARY EXAMINATIONS FOR STAGE 5 STUDENTS IN TERM 12020** **FOR TERM 2:** • **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 22020**

	FOR TERM 3: • **STAGE 5 COURSES ONLY: DURING THE WEEK OF MONDAY, 14 DECEMBER 2020 – FRIDAY, 18 DECEMBER 2020** • **STAGE 1-4* COURSES: THURSDAY, 17 DECEMBER 2020, FRIDAY, 18 DECEMBER AND SATURDAY, 19 DECEMBER 2020** 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. **School of Optometry and Vision Science, UNSW, 15 November 2019**

[1] UNSW Assessment Policy

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.

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

7. Readings and resources

1. A Practical Manual will be available on Moodle – please print a copy and bring with you to every prac class
2. Scheiman and Wick's Clinical Management of Binocular Vision
3. Clinical Procedures in Primary Eye Care by David B. Elliott
4. Primary Care Optometry by Theodore Grosvenor
5. Kiely: Optometric competencies[1]
6. Lian et al.: disinfection procedures[2]
7. Gutteridge and Cole: Perspectives on MIgraines[3]
8. Martonyi, Bahn, Meyer, *Clinical Slit Lamp Biomicroscopy and Photo Slit Lamp Biomicrography*, Time One Ink, Ltd.
9. NSW Health Hand Wash Policy[4]
10. Optometrists' Code of Conduct[5]
11. *Australian guidelines for the prevention and control of infection in healthcare*[6]
12. Moodle videos for each procedure prior to coming to the practical classes
13. Moodle discussion participation
14. Recommended readings will also be included in each set of lecture notes
15. Please see Moodle for additional reading requirements.

[1] Kiely and Slater, *Clinical and Experimental Optometry*, 98 (1), 65–89, 2015: http://onlinelibrary.wiley.com/doi/10.1111/cxo.12216/abstract
[2] Lian et al. Clin Exp Optom 2017; 100: 341–356
[3] Gutteridge and Cole, *Clinical and Experimental Optometry* 2001; 84: 2: 56-70
[4] http://www0.health.nsw.gov.au/policies/pd/2010/pdf/PD2010_058.pdf
[5] www.**optometry**board.gov.au/documents/default.aspx?record...AP.
[6] http://www.nhmrc.gov.au/_files_nhmrc/publications/attachments/cd33_complete.pdf

8. Administrative matters

Required Equipment, Training and Enabling Skills

Equipment Required	▪ Diagnostic Set: This set contains a retinoscope to assess refractive error and an ophthalmoscope to assess the integrity of the eyeball and adnexa respectively. ▪ Optometric kit to be purchased from Dr Dale Larden ▪ A name badge – you can purchase this from Dale
Enabling Skills Training Required to Complete this Course	▪ Revision of clinical videos prior to taking part in practical classes ▪ Completion of quiz prior to taking part in practical classes ▪ Moodle discussions prior to attending lectures ▪ Use of BIO simulator ▪ Students are expected to be computer and information literate at this stage of the program. Students should have completed the ELISE course (see UNSW library website) or similar information literacy courses offered by UNSW (eg LILT or BIOS). Students need to also aware that some procedures, involve direct contact with the eye. All Health and Safety (HS) rules apply and must be adhered to.

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	*To be reviewed*	The move from a BSc/BOptom to a BVis Sci/MClinOpt resulted in the creation of this course, which has not been run before. In order to adapt to the new 10-week term, students are expected to self-direct their learning to a greater extent than previously. More online notes, videos of clinical techniques and self-assessment (such as study questions and Moodle quizzes) have been incorporated into the course.

Work Health and Safety[4]	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/whs/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 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 Services[5]	Information on Counselling and Psychological Services [CAPS] is available at: https://www.counselling.unsw.edu.au/ Tel: 9385 5418		

[3] myExperience process: https://teaching.unsw.edu.au/myexperience

[4] UNSW OHS Home page

[5] Student Complaint Procedure

[6] 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
- Disability Support Services: student.unsw.edu.au/disability
- UNSW IT Service Centre: www.it.unsw.edu.au/students