Course Outline

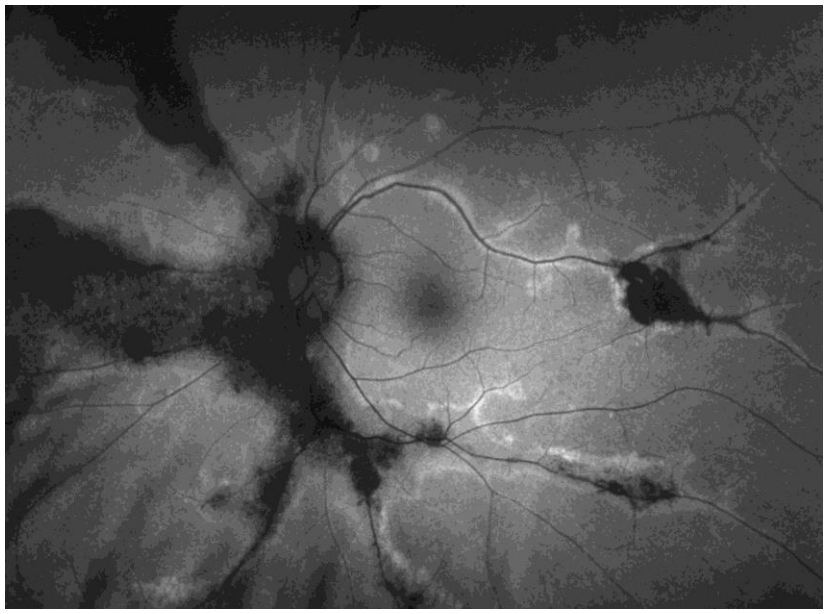
OPTM3205

Disease Processes of the Eye 2

Optometry and Vision Science

Faculty of Science

[Term 2, 2020]



1. Staff

Position	Name	Email	Consultation times and locations	Contact Details
Course Convenors	Michele Clewett Prof. Michael Kalloniatis	mclewett@cfeh.com.au mkalloniatis@cfeh.com.au	Contact via email	Contact via email
Lecturers	A/Prof Michele Madigan Dr Angelica Ly Dr Barbara Zangerl Dr Jack Phu Dr Lisa Nivison-Smith Prof Mark Wilcox Paula Katalinic Pauline Xu Michele Clewett	m.madigan@unsw.edu.au ALy@cfeh.com.au bzangerl@cfeh.com.au jphu@cfeh.com.au lnivison-smith@cfeh.com.au m.wilcox@unsw.edu.au pkatalinic@cfeh.com.au pxu@cfeh.com.au	Email for appointment	Contact via email

2. Course information

Units of credit: **6UOC**

Pre-requisite(s): OPTM3105 Disease processes of the eye 1

Teaching times and locations:

Component	HPW	Time	Day	Location
Lecture 1	**2**	**3 to 5pm**	**Tuesday**	**Online** **Moodle Collaborate Ultra**
Lecture 2 / tutorial	**2**	**1 to 3pm**	**Thursday**	**Online** **Moodle Collaborate Ultra**
Lecture 3 / tutorial	**1**	**11am to 12pm**	**Friday**	**Online** **Moodle Collaborate ultra**

2.1 Course summary

This course provides an overview of disease processes with particular application to the pathophysiology, epidemiology and clinical features of posterior eye diseases. It follows on from OPTM3105 and will cover metabolic, degenerative, inherited, developmental and inflammatory ocular disease as well as neoplasia. Participants will gain an understanding of the pathological processes underlying disease as well as a solid knowledge of the epidemiology, signs symptoms and clinical presentation of ocular disease. This will equip students with the knowledge necessary for differentially diagnosing ocular disease.

2.2 Course aims

OPTM3205 aims to impart an understanding of the pathophysiological processes underlying ocular disease. By better understanding these processes, participants can better recognise disease states and identify progression of disease. Further, students will learn the epidemiology and clinical characteristics of a wide spectrum of posterior eye disease and in this way develop the foundations necessary for the differential diagnosis of eye disease. Throughout, ocular disease will be discussed in relation to the underlying pathophysiological processes. Didactic lectures, interactive tutorials and supporting on-line educational material will be aligned with assessment tasks designed to both work towards these aims and also to measure achievement of these goals.

2.3 Course learning outcomes (CLO)

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

1. Understand the range of pathophysiological processes underpinning posterior eye disease.
2. Be able to recognise a wide range of posterior eye conditions by integrating knowledge of epidemiology, pathophysiological processes and clinical presentation and be able to communicate your findings effectively.
3. Locate and critically evaluate high quality current information and evidence on posterior eye disease
4. Integrate knowledge gained in other optometry courses (for example, OPTM3105) and the current course (OPTM3205)

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	Understand the range pathophysiological processes underpinning posterior eye disease.	Articulate broad and coherent disciplinary theoretical and technical knowledge in Vision Science and Optometry and their areas of practice (program 3181) Articulate advance and integrate understanding of a complex body of knowledge in Vision Science and Optometry, and their areas of professional practice (3182)	Lectures, on line resources, assessment quizzes, final exam
CLO 2	Be able to diagnose a wide range of eye conditions by acquiring and integrating knowledge of epidemiology, pathophysiological processes and clinical presentation and be able to communicate your findings effectively.	Articulate broad and coherent disciplinary theoretical and technical knowledge in Vision Science and Optometry and their areas of practice (program 3181) Articulate advance and integrate understanding of a complex body of knowledge in Vision Science and Optometry, and their areas of professional practice (3182) Apply knowledge and principles in Vision Science and Optometry to work in Ophthalmic Industry Effectively communicate information in both oral and written formats (3181) Demonstrate effective and professional skills in communicating information and judgements to patients and other health care providers (3182)	Tutorials, on-line resources, case presentations, final exam
CLO 3	Be able to locate and critically evaluate high quality current information and evidence on ocular disease	Use enquiry-based learning and demonstrate analytical skills in the review, consolidation and synthesis of knowledge in Vision Science and Optometry (3181) Use expert, specialised cognitive and technical skills in Vision Science and Optometry to independently and	Case presentations

		critically analyse and synthesise complex information, problems, concepts and theories (3182) Understand the scientific research process and ability to undertake independent research in Vision Science and Optometry. Apply established theories and concepts to a body of knowledge, and the interpretation and communication of knowledge and ideas to specialist and non-specialist audiences (3182)	
CLO 4	Integrate knowledge gained in other optometry courses (for example, OPTM3105 and OPTM3133)	Apply knowledge and principles in Vision Science and Optometry to work in Ophthalmic Industry Articulate broad and coherent disciplinary theoretical and technical knowledge in Vision Science and Optometry and their areas of practice (program 3181) Articulate advance and integrate understanding of a complex body of knowledge in Vision Science and Optometry, and their areas of professional practice (3182)	Tutorials, case presentations,

3. Strategies and approaches to learning

3.1 Learning and teaching activities

In 2020, this course has been modified to run entirely online. The following resources have been developed to assist students in their online learning of this topic:

Live online lectures

Live lectures will be used in this course to build an understanding of the relevant pathophysiological processes and a connection will be made between these processes and ocular disease. By understanding the pathophysiology behind the disease, participants will be better able to diagnose these conditions and understand disease progression. These lectures will be delivered by a range of lecturers who have specific expertise or experience in the given topics and they form a fundamental part of this course. Student interaction is encouraged through the use of the chat box, polls and "raising your hand". Attendance at all lectures is highly recommended and interaction with lecturers strongly encouraged to maximise the learning opportunity. These sessions will be recorded and available to students on Moodle for review.

Recorded video lectures

Some smaller topics will be covered completely by recorded video lecture and can be accessed at any time. Additionally, other lectures are provided to complement the live lectures, allowing greater exploration or a more in-dept explanation of a particular topic.

Self-paced online tutorials

Several online self-paced tutorial modules are provided to complement the live lectures and allow students to practice applying the principles taught to clinical cases. These modules consist of short video segments integrated with text, online activities and questions and use the latest in on-line adaptive learning technology to support learning and help students achieve the expected course learning outcomes.

Live online tutorials

Interactive tutorials will be held online throughout the session. These tutorials allow students to practice applying their knowledge to clinical cases. Students work in groups via private chat rooms within Moodle's Collaborate Ultra to discuss and work through presentations of ocular disease. This group work will help to develop the ability to work as part of a team and will integrate learnings from the preceding few days. There will be the opportunity to ask questions, to receive feedback on the cases presented and also a chance for clarification to be given on topics identified as problematic by the on-line learning activities. Students are expected to attend and participate in discussions to maximise their learning experience. The tutorials are designed to help students achieve learning outcomes 1,2 and 4.

Summary Resources

CFEH Chairside references have been included as appropriate in this course. These references are a pictorial summary of common eye conditions and their typical presentation on advanced imaging and serve as a concise summary of key topics. Additionally, in 2020, we have developed some knowledge maps to help facilitate student's understanding of pathophysiological processes. Again, these are a very useful summary to help in your studies.

This year we have also developed some knowledge maps to help students summarise and more easily understand the pathophysiology of select disease processes.

3.2 Expectations of students

Expectations of Students	**Participation** During lectures and tutorials, student participation and interaction is both expected and appreciated. Active student engagement improves the learning experience for all and will help to maximise the learning experience. **Attendance** **Students are strongly encouraged to attend all lectures live to maximise the learning experience by interacting and making the most use of the expertise of the lecturers.** The compulsory course components, and the justification for their compulsory nature, are as follows: • Tutorials run in Weeks 1, 2,4,5,8,9 and 10. These tutorials provide a particularly effective and critical learning experience to help you to contextualise important subject matter presented elsewhere in the course. • The Assessment quizzes in weeks 3 and 7 are compulsory and will be held on **Friday from 11am to 12pm online**. Failure to attend these assessments will result in a zero score for that assessment unless special consideration applies. **On-line components** It is expected that all students complete the on-line assigned activities. These serve to reinforce learning and utilise adaptive learning such that extra information can be provided where necessary to improve understanding of the topic. Valuable analytical data can be extracted from these learning modules such that the course presenters can identify poorly understood areas and address these in tutorials and face to face lectures. **Communication** 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

This course consists of 5 hours of class contact hours each week. You are expected to take an additional 5 hours of non class contact hours to complete assessments, readings and exam preparation.]

Week [Date/Session]	Lecture Topics	Activity	Related CLO
Week 1	Introduction to OPTM3205 Inherited Ocular Disease	Video Lectures Online live Tutorial (1 hr)	1,3
Week 2	Metabollic disease 1 Metabollic disease 2	Video lectures Self-paced online tutorial Online live tutorial (1 hr)	1,2,4
Week 3	Vascular disease 1 Vascular disease 2	Video lectures **Assessment Quiz 1**	1,2,4
Week 4	Neoplasia 1 Neoplasia 2	Video lectures Self-paced online tutorial Online live tutorial (1 hr)	1,2,4
Week 5	Disorders of the visual pathways 1 Disorders of the visual pathways 2	Video lectures Self-paced online tutorial 3-D model of the brain Online live tutorial (1 hr)	1,2,4
Week 6	Reading week	Reading week	
Week 7	Degenerative changes in the visual pathways Glaucoma Review Tutorial	Video lectures Self-paced online tutorial **Assessment Quiz 2**	1,2,4
Week 8	Ocular Inflammation 1 Ocular Inflammation 2	Video Lectures Online Tutorial (1 hour)	1,2,4
Week 9	Degenerative retinal conditions 1 Degenerative retinal conditions 2 Degenerative retinal conditions 3	Video lectures Self-paced online tutorial Online live tutorial (1 hr)	1,2,4
Week 10	Degenerative retinal conditions 4 Extended review tutorial (2 hrs)	Online review tutorial (1 hr)	1,2,3,4

5. Assessment

5.1 Assessment tasks

Standard grading will be used in this course for 2020 (UF,FL,PS,CR,DN,HD).

Assessment task	Length	Weight	Due date *(normally midnight on due date)*
Assessment 1: Formative assessment 1: quiz 2 in-class quizzes will be held during tutorial times in weeks 3 and 7. The quizzes will consist of extended matching, extended true/false groups and/or short answer questions covering material presented in class (lectures and tutorials) and also in on-line resources.	45 min	20% total (10% each)	Weeks 3 and 7
Assessment 2: Formative assessment 3: Case presentation Groups are assigned a case of ocular disease to analyse and understand. The key areas of focus are imaging interpretation, diagnosis and the pathophysiology of the relevant conditions and/or ocular signs. Each group member must have a thorough understanding of these key areas and be prepared to answer questions in an online group oral presentation of 10 minutes in week 10 of term.	10 minutes	20%	Monday 3rd August 9am
Assessment 3: Summative assessment - Final exam ***The final exam MUST be passed in order to pass this course***. If the exam is not passed but the combined course mark is 50% or over, a grade of UF will be awarded. If the exam is passed but the overall course mark is less than 50%, a FL grade will be awarded. In 2020 this examination will be held online.	2 hours	60% (hurdle)	During UNSW examination period

Further information

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

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

5.2 Assessment criteria and standards

Formative assessments 1 and Summative assessment (final exam): Accurate response.

Formative assessment 2 (Case presentation): will be assessed using the following rubic. Peer assessment and examiner assessment will be combined to reach a final mark for this task.

Criteria	**Performance standards**.			
	Unsatisfactory	**Satisfactory**	**Good**	**Excellent**
Rationale Has the group reached a logical diagnosis and explained their reasoning well?	The group has used flawed diagnostic thought processes which has significantly impacted their final diagnosis.	The group has made minor errors in their diagnostic thought processes which has led to incorrect conclusions.	The group has managed to interpret the imaging well, but has not been able to explain the thought processes by which a final diagnosis was reached.	The group has accurately interpreted imaging and explained how the clinical findings led them to their final diagnosis.
Content How good is the work that was done?	The work appears to be incomplete—it fails to address the required criteria.	The work contains serious errors—the conclusions are cast into serious doubt.	The work contains some minor errors that are unlikely to undermine the main conclusions.	The work appears to have been completed without errors.
Understanding pathophysiology	The group has a flawed understanding of the pathophysiology processes underpinning the assigned ocular disease and/or are unable to explain this process to the examiners.	The group members have an incomplete understanding of the pathophysiology processes underpinning the assigned ocular disease and/or are unable to explain this without prompting.	The group members have a basic understanding of the pathophysiology processes underpinning the assigned ocular disease and are able to explain this fairly well.	The group members have an in-depth understanding of the pathophysiology processes underpinning the given ocular disease, and are able to succinctly explain these.
Communication How well is the work presented?	Verbal communication is poor and the given responses are difficult to follow. The group is effectively unable to answer questions about the topic.	Multiple deficiencies: in communicating more than one aspect of the presentation (eg image interpretation, pathophysiology, conclusions). The group attempt to answer questions about the topic, but communication is poor.	Information is fairly clear but requires some clarification questions from examiners. The group is able to demonstrate a reasonable knowledge of the topic but shows some uncertainty.	All information is clearly articulated and the presentation is engaging. The group answers questions easily and directly, demonstrating a solid knowledge of the topic.

5.3 Submission of assessment tasks

Assignment Submissions	Formative assessment 1 will be issued, completed and collected during lecture time in weeks 3 and 7. Formative assessment 2 will be scheduled in the week commencing Monday 3rd August (week 10).. Submissions requesting extension of a deadline relating to assessment tasks must be made in writing WITH supporting documentation to Michele Clewett mclewett@cfeh.com.au Michael Kalloniatis mkalloniatis@cfeh.com.au needs to be copied in on all emails. 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

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 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. **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. **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** 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

5.4. Feedback on assessment

Feedback for assessment tasks will be provided in a timely manner through the following means:

Formative assessment 1: Written general feedback and discussion in-class discussion during the tutorial session immediately following the assessment task. Marks will be available in Moodle prior to the tutorial session.

Formative assessment 2: Written group feedback and marks available in Moodle within 1 week of submission.

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.

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7. Readings and resources

Required Text:

Bowling, B 'Kanski's Clinical Ophthalmology' 9th edition, Elsevier Butterworth-Heinemann Publishers, 2020.

This textbook is a comprehensive Ocular Disease Atlas that later becomes an excellent everyday resource in your clinical practice. You can purchase this book through the UNSW bookshop. This will include on-line access to 'Kanskionline'. This text can also be accessed online through the UNSW library.

Useful resources

Note these are not required texts but may be helpful in your study of this subject

Forrester,J, Dick,A. McMenamin,P. Roberts,F. Pearlman,E. "The Eye – Basic Sciences in Practice" 4th Edition, 2015. Available through UNSW bookshop. A copy is held at the UNSW library.

Ehlers JP and Shah CP. 'The Wills Eye Manual', Lippincott Williams and Wilkins, 5th edition, 2008. Available through the UNSW bookshop and online through the UNSW library. A copy is also held at the UNSW library.

Remington,L. "Clinical Anatomy and Physiology of the Visual System" 3rd edition, 2012. Available through the UNSW library as an e-book.

Snell,R. Lemp,M. "Clinical Anatomy of the Eye" 2nd edition, 1998. A copy is held in the UNSW library.

Yanoff M and Sassani JW. 'Ocular Pathology', Mosby, 6th edition, 2009. Available through the UNSW bookshop. A copy is held at the UNSW library

Compulsory and optional readings as specified by the lecturers and course material throughout the semester will be listed on Moodle and provided when not accessible on-line through the UNSW library.

Moodle announcements for OPTM3231 are an essential port of call every day or two. Announcements from staff to the whole class will be made through this medium for any changes, last minutes updates, etc. Zmail will only be used for personal messages to individual students.

8. Administrative matters

Required Equipment, Training and Enabling Skills

Equipment Required	None required
Enabling Skills Training Required to Complete this Course	Skills beyond ELISE level online information literacy are expected. Go to UNSW Library/Online Training/LOIS and complete the complete series of tutorials. Those with poor English skills (relating to writing, oral delivery, grammar, expression) should visit the UNSW Learning Centre for help before it is too late.

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		This course will run for the first time in 2019. Annual review will be undertaken based on student feedback.

myExperience[3]		Course feedback may be given through myExperience.

Other		Not applicable

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/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 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