



UNSW

UNSW Course Outline

VISN2111 Ocular Anatomy and Physiology - 2024

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General Course Information

Course Code : VISN2111

Year : 2024

Term : Term 2

Teaching Period : T2

Is a multi-term course? : No

Faculty : Faculty of Medicine and Health

Academic Unit : School of Optometry and Vision Science

Delivery Mode : In Person

Delivery Format : Standard

Delivery Location : Kensington

Campus : Sydney

Study Level : Undergraduate

Units of Credit : 6

Useful Links

[Handbook Class Timetable](#)

Course Details & Outcomes

Course Description

Objectives: An understanding of the anatomy and physiology of the eye, ocular adnexa and surrounds and an introduction to the visual pathways. This course aims to relate form and function of the ocular system.

Brief Curriculum: Introduction to the gross anatomy of the eye and adnexa (including nerve and blood supply); introduction to cellular anatomy of the components of the eye and ocular adnexa. This includes an introduction to the optic nerve and visual pathways. Physiology of the eye including the ocular surface dynamics, corneal wound healing, aqueous humour dynamics and intraocular pressure regulation, neural control of the pupil and physiology and biochemistry of the retina and retinal pigment epithelium.

Course Aims

This course aims to provide an understanding of the structural organization of the eye, orbit and adnexa, and an introduction to the visual pathway, utilising *in vivo* imaging, and gross and cellular anatomy perspectives. The course also covers physiological aspects of the eye and visual system, including ocular surface & tear film dynamics, vascular & neural supply of ocular structures, intraocular pressure regulation, control of the pupil and accommodation, and metabolic processes in the retina and choroid.

Relationship to Other Courses

Assistance with progression checking:

If you are unsure how this course fits within your program, you can seek guidance on optimising your program structure from staff at the [Nucleus Student Hub](#).

Progression plans for UNSW Medicine and Health programs can be found on the [UNSW Medicine & Health website](#).

VISN1101, ANAT2111 and PHS12101 are pre-requisite courses for VISN2111.

VISN2111 is a pre-requisite course for VISN2211, OPTM2133, OPTM3105, OPTM3201 and PHAR3306

Course Learning Outcomes

Course Learning Outcomes	Optometry Australia competency standards
CLO1 : Identify the key structures/tissues of the human eye and the surrounding tissues.	• OPT1 : Clinical Care Provider
CLO2 : Identify the main physiological processes involved in normal working of the human eye.	• OPT1 : Clinical Care Provider
CLO3 : Analyse the relationships between the main eye structures and their functions, and how these are critical for normal vision.	• OPT1 : Clinical Care Provider
CLO4 : Identify how eye tissues and related structures can differ between normal and disease states.	• OPT1 : Clinical Care Provider
CLO5 : Understand basic clinical in vivo imaging as applied to the eye, surrounding tissues and visual system.	• OPT1 : Clinical Care Provider
CLO6 : Develop skills in team work, finding and analysing information, and writing and presenting information.	• OPT1 : Clinical Care Provider

Course Learning Outcomes	Assessment Item
CLO1 : Identify the key structures/tissues of the human eye and the surrounding tissues.	• Mid Term Test • Weekly Quiz • Final Exam
CLO2 : Identify the main physiological processes involved in normal working of the human eye.	• Weekly Quiz • Final Exam
CLO3 : Analyse the relationships between the main eye structures and their functions, and how these are critical for normal vision.	• Final Exam
CLO4 : Identify how eye tissues and related structures can differ between normal and disease states.	• Mid Term Test • Weekly Quiz • Final Exam
CLO5 : Understand basic clinical in vivo imaging as applied to the eye, surrounding tissues and visual system.	• Mid Term Test • Weekly Quiz • Final Exam
CLO6 : Develop skills in team work, finding and analysing information, and writing and presenting information.	

Learning and Teaching Technologies

Moodle - Learning Management System

Learning and Teaching in this course

All course materials and course announcements are provided on the course learning management system, Moodle (or Open Access).

By accessing and using the ICT resources provided by UNSW, you are agreeing to abide by the '[Acceptable Use of UNSW ICT Resources](#)' policy particularly on respect for intellectual property and copyright, legal and ethical use of ICT resources and security and privacy.

Assessments

Assessment Structure

Assessment Item	Weight	Relevant Dates	Optometry Australia competency standards
Mid Term Test Assessment Format: Individual	35%	Start Date: Week 5, Week 10 Due Date: Week 5, Week 10	• OPT1 : Clinical Care Provider
Weekly Quiz Assessment Format: Individual	15%	Start Date: Weekly Due Date: Not Applicable	• OPT1 : Clinical Care Provider
Final Exam Assessment Format: Individual	50%	Start Date: T2 Exam Period Due Date: T2 Exam period	• OPT1 : Clinical Care Provider

Assessment Details

Mid Term Test

Assessment Overview

Two online mid term tests (middle and end of term, up to 60 mins) including MCQs, diagrams and short answers examining content relating to identifying anatomical features of eye and associated tissues (17.5% each, 35% total).

Feedback via Moodle, 2 weeks after assessment.

Course Learning Outcomes

- CLO1 : Identify the key structures/tissues of the human eye and the surrounding tissues.
- CLO4 : Identify how eye tissues and related structures can differ between normal and disease states.
- CLO5 : Understand basic clinical *in vivo* imaging as applied to the eye, surrounding tissues and visual system.

Assignment submission Turnitin type

This is not a Turnitin assignment

Weekly Quiz

Assessment Overview

Eight weekly quizzes including MCQs, diagrams and short answers assessing the content covered in the previous week's practicals or tutorials. Each quiz is worth 2.5% and the best of 6/8 quizzes used (2.5% each, 15% total).

General feedback for each quiz will be provided the following week via Moodle.

Course Learning Outcomes

- CLO1 : Identify the key structures/tissues of the human eye and the surrounding tissues.
- CLO2 : Identify the main physiological processes involved in normal working of the human eye.
- CLO4 : Identify how eye tissues and related structures can differ between normal and disease states.
- CLO5 : Understand basic clinical *in vivo* imaging as applied to the eye, surrounding tissues and visual system.

Assignment submission Turnitin type

This is not a Turnitin assignment

Final Exam

Assessment Overview

Final examination (up to 2 hours) including MCQs, diagrams and short answers assessing all course content (50% total).

General feedback via Moodle.

Course Learning Outcomes

- CLO1 : Identify the key structures/tissues of the human eye and the surrounding tissues.
- CLO2 : Identify the main physiological processes involved in normal working of the human eye.
- CLO3 : Analyse the relationships between the main eye structures and their functions, and how these are critical for normal vision.
- CLO4 : Identify how eye tissues and related structures can differ between normal and disease states.
- CLO5 : Understand basic clinical *in vivo* imaging as applied to the eye, surrounding tissues and visual system.

Assignment submission Turnitin type

This is not a Turnitin assignment

General Assessment Information

Detailed instructions regarding assessments for this course are provided on the course Moodle page (or Open Learning).

For student information on results, grades, and guides to assessment see: <https://student.unsw.edu.au/assessment>

Grading Basis

Standard

Requirements to pass course

In order to pass this course students must:

- Achieve a composite grade of at least 50 out of 100
- Meet any additional requirements specified in the assessment details section and on Moodle.

Course Schedule

Teaching Week/Module	Activity Type	Content
Week 1 : 27 May - 2 June	Module	<p>Introduction to VISN2111 and the Orbit</p> <p>Topics:</p> <ul style="list-style-type: none"> • Introduction to VISN2111 • The Orbital Bones and Soft Tissue <p>Learning Activities</p> <ul style="list-style-type: none"> • Lectures: 1 Intro lecture, 4 mini-lectures on the Orbit • Tutorial: 2 pre-work videos, 1 face to face class • Assessments: 1 weekly quiz
Week 2 : 3 June - 9 June	Module	<p>Sclera, EOMs, Ocular Adenxa, Lacrimal System and Conjunctiva</p> <p>Topics:</p> <ul style="list-style-type: none"> • The external globe, the sclera and the extraocular muscles • The ocular adenxa, the lacrimal system and the conjunctiva <p>Learning Activities</p> <ul style="list-style-type: none"> • Lectures: 5 mini-lectures on sclera, EOM, adenxa, lacrimal system and conjunctiva • Tutorial: 2 pre-work videos, 1 face to face class • Assessments: 1 weekly quiz
Week 3 : 10 June - 16 June	Module	<p>Ocular Surface, Tear Film, Limbus and Cornea</p> <p>Topics:</p> <ul style="list-style-type: none"> • The ocular surface and tear film • The limbus and cornea <p>Learning Activities</p> <ul style="list-style-type: none"> • Lectures: 5 mini-lectures on ocular surface, limbus, cornea • Tutorial: 2 pre-work review, 1 face to face class • Assessments: 1 weekly quiz
Week 4 : 17 June - 23 June	Module	<p>Anterior Uvea and Anterior Chamber Dynamics</p> <p>Topics:</p> <ul style="list-style-type: none"> • the Anterior Uvea (the Iris and Ciliary body) • Anterior chamber dynamics (Aqueous humour formation and dynamics) <p>Learning Activities:</p> <ul style="list-style-type: none"> • Lectures: 4 mini-lectures on anteria uvea and chamber dynamics • Tutorial: 1 pre-work lecture, 1 face to face class • Assessments: 1 weekly quiz
Week 5 : 24 June - 30 June	Module	<p>Review week</p> <p>Learning Activities:</p> <ul style="list-style-type: none"> • Lectures: 1 review lecture • Tutorial: none • Assessments: 1 weekly quiz, 1 mid-term test
Week 6 : 1 July - 7 July	Other	FLEX WEEK
Week 7 : 8 July - 14 July	Module	<p>Lens and Vitreous</p> <p>Topics:</p> <ul style="list-style-type: none"> • the lens and vitreous <p>Learning Activities:</p> <ul style="list-style-type: none"> • Lectures: 4 mini-lectures on lens and vitreous • Tutorial: 1 face to face class
Week 8 : 15 July - 21 July	Module	<p>Posterior Uvea (retina, choroid, optic nerve)</p> <p>Topics:</p> <ul style="list-style-type: none"> • the retina, choroid and optic nerve <p>Learning Activities:</p> <ul style="list-style-type: none"> • Lectures: 3 mini-lectures on posterior uvea • Tutorial: 1 website review, 1 face to face class • Assessments: 1 weekly quiz
Week 9 : 22 July - 28 July	Module	<p>Retina and Visual Cycle</p> <p>Topics:</p> <ul style="list-style-type: none"> • the visual cycle • phototransduction <p>Learning Activities:</p> <ul style="list-style-type: none"> • Lectures: 3 mini-lectures on visual cycle and phototransduction • Tutorial: 1 face to face class • Assessments: 1 weekly quiz
Week 10 : 29 July - 4 August	Other	<p>Review week</p> <p>Learning Activities:</p> <ul style="list-style-type: none"> • Lectures: 1 review lecture • Tutorial: 1 face to face class • Assessments: 1 weekly quiz, 1 mid-term test

Attendance Requirements

Students are expected to attend all scheduled clinical, laboratory and tutorial classes. An Unsatisfactory Fail (UF) may be recorded as the final grade for the course if students fail to meet the minimum requirement of 80% attendance for clinical, laboratory and tutorial classes (unless otherwise specified on Moodle). Course attendance expectations are determined by the requirements of the program accrediting body, OCANZ. Where a student is unable to attend, they are advised to inform the course convenor as soon as possible but no later than 3 days after the scheduled class and, where possible, provide written documentation (e.g. medical certificate) to support their absence. Students may submit a request for special consideration in the case of prolonged or multiple absences. Please note that there are severe consequences for submitting fraudulent documents such as false medical certificates. Such cases will be referred to the Student Conduct and Integrity Unit (SCIU) for investigation.

General Schedule Information

The times and locations of classes can be found on [myUNSW](#) under Class Timetable.

The expected engagement for all UNSW 6UOC courses is 150 hours per term. This includes lectures, tutorials, readings, and completion of assessments and exam preparation (if relevant).

Swapping tutorials

Swapping between tutorial groups, is not permitted. Please contact the course co-ordinator if you are unable to attend your scheduled class.

Additional attendance requirements for practical classes

All tutorial 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 and are linked to clinical competencies.

Attendance will be monitored by taking the roll. Any absences due to illness must be accounted for by a medical certificate presented to your Course Convenor. Submission to Special Consideration may be required pending the number of absences.

Punctuality is expected. Lateness may be recorded as an absence.

Contact the course co-ordinator Dr Lisa Nivison-Smith l.nivison-smith@unsw.edu.au if you are running late or will be unable to attend your scheduled class.

Course Resources

Recommended Resources

Recommended resources for this course are provided on the course Moodle page.

Course Evaluation and Development

Student feedback is taken seriously, and continual improvements are made to the course based, in part, on such feedback.

We use student feedback from myExperience surveys to develop and make improvements to the course each year. We do this by identifying areas of the course that require development from both the rating responses and written comments. Please spare a few minutes to complete the myExperience surveys for this course posted at the top of the Moodle page at the end of term.

Staff Details

Position	Name	Email	Location	Phone	Availability	Equitable Learning Services Contact	Primary Contact
Convenor	Lisa Nivison-Smith		Centre for Eye Health, Rupert Myers Building Sth		Mon, Tue, Wed, Fri	Yes	Yes

Other Useful Information

Academic Information

As a student of UNSW Medicine & Health you are expected to familiarise yourself with the contents of this course outline and the UNSW Student Code and policies and procedures related to your studies.

Student Code of Conduct

Throughout your time studying at UNSW Medicine & Health, you share a responsibility with us for maintaining a safe, harmonious and tolerant University environment. This includes within the courses you undertake during your degree and your interactions with the UNSW community, both on campus and online.

The [UNSW Student Code of Conduct](#) website provides a framework for the standard of conduct expected of UNSW students with respect to both academic integrity and your responsibility as a

UNSW citizen.

Where the University believes a student may have breached the code, the University may take disciplinary action in accordance with the [Student Misconduct Procedure](#).

The [Student Conduct and Integrity Office](#) provides further resources to assist you to understand your conduct obligations as a student at UNSW.

Academic Honesty and Plagiarism

Academic integrity

UNSW has an ongoing commitment to fostering a culture of learning informed by academic integrity. All UNSW staff and students have a responsibility to adhere to the principle of academic integrity, and ethical scholarship of learning is fundamental to your success at UNSW Medicine & Health.

Plagiarism, contract cheating, and inappropriate use of generative AI undermine academic integrity and are not tolerated at UNSW. For more information see the [Academic Integrity and Plagiarism toolkit](#).

In addition to the information you are required to review in your [ELISE training](#), UNSW Medicine & Health strongly recommends that you complete the [Working with Academic Integrity](#) module before submitting your first assessment task.

Referencing

Referencing is a way of acknowledging the sources of information that you use to research your assignments. Preferred referencing styles vary among UNSW Medicine & Health disciplines, so check your course Learning Management System (e.g. Moodle or Open Learning) page for information on preferred referencing styles.

For further information on referencing support and styles, see the Current Student [Referencing page](#).

Academic misconduct and plagiarism

At UNSW, academic misconduct is managed in accordance with the [Student Misconduct Procedure](#). Allegations of plagiarism are generally handled according to the [UNSW Plagiarism](#)

Management Procedure. Plagiarism is defined in the [UNSW Plagiarism Policy](#) and is not tolerated at UNSW.

Use of Generative AI and other tools in your assessment

UNSW has provided guiding statements for the [use of Generative AI in assessments](#). This will differ, depending on the individual assessment task, your course requirements, and the course stage within your program.

Your course convenor will outline if and how you can use Generative AI in each your assessment tasks. Options for the use of generative AI include: (1) no assistance; (2) simple editing assistance; (3) planning assistance; and (4) full assistance with attribution.

You may be required to submit the original generative AI responses, or drafts of your original work. Inappropriate use of generative AI is considered academic misconduct.

See your course Moodle (or Open Learning) page for the full instructions for individual assessment tasks for your course.

Submission of Assessment Tasks

Special Consideration

In cases where illness, misadventure or other circumstances beyond your control will prevent you from submitting your assessment by the due date and you require an extension, you need to formally apply for [Special Consideration](#) through myUNSW.

UNSW has a **Fit to Sit/Submit rule**, which means that by sitting or submitting an assessment on the scheduled assessment date, you are declaring that you are fit to do so and cannot later apply for Special Consideration.

Timed online assessment tasks

If you experience a technical or connection problem during a timed online assessment, such as a timed quiz, you can apply for Special Consideration. To be eligible to apply you need to contact the Course Convenor and advise them of the issue immediately. You will need to submit an application for Special Consideration immediately, and upload screenshots, error messages or other evidence of the technical issue as supporting documentation. Additional information can be found on: <https://student.unsw.edu.au/special-consideration>

Examinations

Information about the conduct of examinations in your course is provided on your course Moodle page.

Other assessment tasks

Late submission of assessment tasks

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 calendar day (including Saturday, Sunday and public holidays).

Late submissions penalties are capped at five calendar days (120 hours). This means that a student is not permitted to submit an assessment more than 5 calendar days (120 hours) after the due date for that assessment (unless extension or exemption previously agreed).

Failure to complete an assessment task

You are expected to complete all assessment tasks for your courses. In some courses, there will be a minimum pass mark required on a specific assessment task (a “hurdle task”) due to the need to assure clinical competency.

Where a hurdle task is applicable, additional information is provided in the assessment information on your course Moodle page.

Feedback on assessments

Feedback on your performance in assessment tasks will be provided to you in a timely manner. For assessment tasks completed within the teaching period of a course, other than a final assessment, feedback will be provided within 10 working days of submission, under normal circumstances.

Feedback on continuous assessment tasks (e.g. laboratory and studio-based, workplace-based, weekly quizzes) will be provided prior to the midpoint of the course.

Any variation from the above information that is specific to an assessment task will be clearly indicated in the course and assessment information provided to you on your course Moodle (or

Open Learning) page.

Faculty-specific Information

Additional support for students

The university offers a wide range of support services that are available for students. Here are some links for you to explore.

- The Current Students Gateway:<https://student.unsw.edu.au>
- Academic Skills and Support:<https://student.unsw.edu.au/academic-skills>
- Student support:<https://www.student.unsw.edu.au/support>
- Student Wellbeing, Health and Safety:<https://student.unsw.edu.au/wellbeing>

Mind Smart Guides are a series of mental health self-help resources designed to give you the psychological flexibility, resilience and self-management skills you need to thrive at university and at work.

- Mind Smart Guides: <https://student.unsw.edu.au/mindsmart>
- Equitable Learning Services:<https://student.unsw.edu.au/els>
- Guide to studying online: <https://www.student.unsw.edu.au/online-study>

Most courses in UNSW Medicine & Health use Moodle as your Learning Management System. Guidance for using UNSW Moodle can be found on the Current Student page. Difficulties with Moodle should be logged with the IT Service Centre.

- Moodle Support: <https://student.unsw.edu.au/moodle-support>

The IT Service Desk is your central point of contact for assistance and support with remote and on-campus study.

- UNSW IT Service Centre:<https://www.myit.unsw.edu.au/services/students>

Course evaluation and development

At UNSW Medicine & Health, students take an active role in designing their courses and their overall student experience. We regularly seek feedback from students, and continuous improvements are made based on your input. Towards the end of the term, you will be asked to participate in the [myExperience survey](#), which serves as a source of evaluative feedback from students. Your input to this quality enhancement process is valuable in helping us meet your learning needs and deliver an effective and enriching learning experience. Student responses are carefully considered, and the action taken to enhance educational quality is documented in the myFeedback Matters section of your Moodle (or Open Learning) course page.

School Contact Information

School guidelines on contacting staff:

Course questions

All questions related to course content should be posted on Moodle or as directed by your Course Convenor.

In cases where email communication with course convenors is necessary, we kindly request the following:

- Use your official email address for any correspondence with teaching staff.
- We expect a high standard of communication. All communication should avoid using short-hand or texting language.
- Include your full name, student ID, and your course code and name in all communication.

Our course convenors are expected to respond to emails during standard working hours of Monday to Friday, 9am-5pm.

Administrative questions

If you have an administrative question about your program of study at the School please submit your enquiry online at [UNSW Ask Us](#).

Complaints and appeals

Student complaints and appeals: <https://student.unsw.edu.au/complaints>

If you have any grievances about your studies, we invite you to address these initially to the Course Convenor. If the response does not meet your expectations, you may then contact the School Grievance Officer, A/Prof Sieu Khuu (s.khuu@unsw.edu.au).