UNSW Course Outline

VISN1221 Visual Optics - 2024

Published on the 25 Aug 2024

General Course Information

Course Code : VISN1221
Year : 2024
Term : Term 3
Teaching Period : T3
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

This course builds on knowledge and skills gained in the geometric and physical optics (VISN 1111 course) to the optical characteristics of the human eye in relation to visual performance including errors of refraction and measurement and corrections using fundamental principles of light and optics.

Brief Curriculum

Visual Optics: Ametropia and its correction, accommodation, retinal image analysis, astigmatism, measurement of visual performance, the optics of subjective refraction, near correction, optical factors affecting visual resolution, ocular refractive error corrections, aberrations, dispersion, entoptic phenomena, introduction to spectacle lenses and their subsidiary effects, design considerations of spectacle lenses.

Course Aims

This course aims to help students acquire an understanding of the eye as an optical system, errors of refraction of the human eye and its measurement and correction. To understand the optical factors associated with the vision. To acquire the optics knowledge required to prescribe contact lenses and spectacle lenses. To understand the subsidiary effects of spectacle lenses, design considerations of spectacle lenses, and optics of spectacle lenses.

Students will begin to appreciate the applications of optics in optometry and vision science. This course is intended to equip students with the optics knowledge required to practice optometry. The knowledge acquired in this course will help the optometry students in the acquisition of their skills in clinical optometry. The vision science students will acquire the optics background required to understand the vision and clinical visual instruments.

Relationship to Other Courses

Assistance with progression checking:

Successfully completing this course would make subsequent courses in optometry and vision science more enjoyable as they will rely on and build further knowledge acquired in this course. Interconnections with other courses in the program include OPTM2233 Optical Dispensing and OPTM3201 Ocular Imaging and Applied Vision Science.

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.

Course Learning Outcomes

Course Learning Outcomes	Optometry Australia competency standards
CLO1 : Demonstrate knowledge of the optics of a human eye and learn how to calculate various optical parameters, including retinal image size, using schematic eye models.	• OPT1 : Clinical Care Provider • OPT2 : Professional and Ethical Practitioner • OPT3 : Communicator and Collaborator • OPT4 : Scholar and Lifelong Learner • OPT5 : Quality and Risk Manager
CLO2 : Describe different types of ametropia, and how to correct and measure ametropia	• OPT1 : Clinical Care Provider • OPT2 : Professional and Ethical Practitioner • OPT3 : Communicator and Collaborator • OPT4 : Scholar and Lifelong Learner • OPT5 : Quality and Risk Manager
CLO3 : Demonstrate understanding of the concept of accommodation and focusing ability of the human eye and how it affects the range of clear vision of ametropes.	• OPT1 : Clinical Care Provider • OPT2 : Professional and Ethical Practitioner • OPT3 : Communicator and Collaborator • OPT4 : Scholar and Lifelong Learner • OPT5 : Quality and Risk Manager
CLO4 : Describe various factors that affect the visual performance of the human eye such as diffraction, refractive error, and retina.	• OPT1 : Clinical Care Provider • OPT2 : Professional and Ethical Practitioner • OPT3 : Communicator and Collaborator • OPT4 : Scholar and Lifelong Learner • OPT5 : Quality and Risk Manager
CLO5 : Describe the basic concepts of entoptic phenomena.	• OPT1 : Clinical Care Provider • OPT2 : Professional and Ethical Practitioner • OPT3 : Communicator and Collaborator • OPT4 : Scholar and Lifelong Learner • OPT5 : Quality and Risk Manager
CLO6 : Demonstrate understanding the concept of spectacle lenses, their subsidiary optical effects.	• OPT1 : Clinical Care Provider • OPT2 : Professional and Ethical Practitioner • OPT3 : Communicator and Collaborator • OPT4 : Scholar and Lifelong Learner • OPT5 : Quality and Risk Manager
CLO7 : Demonstrate team-working skills by effectively collaborating with others.	• OPT1 : Clinical Care Provider • OPT2 : Professional and Ethical Practitioner • OPT3 : Communicator and Collaborator • OPT4 : Scholar and Lifelong Learner • OPT5 : Quality and Risk Manager

Course Learning Outcomes	Assessment Item
CLO1 : Demonstrate knowledge of the optics of a human eye and learn how to calculate various optical parameters, including retinal image size, using schematic eye models.	• Final exam • Moodle quizzes • Mid-semester exam • Group work
CLO2 : Describe different types of ametropia, and how to correct and measure ametropia	• Final exam • Moodle quizzes • Mid-semester exam • Group work
CLO3 : Demonstrate understanding of the concept of accommodation and focusing ability of the human eye and how it affects the range of clear vision of ametropes.	• Final exam • Moodle quizzes • Mid-semester exam • Group work
CLO4 : Describe various factors that affect the visual performance of the human eye such as diffraction, refractive error, and retina.	• Final exam • Moodle quizzes • Group work
CLO5 : Describe the basic concepts of entoptic phenomena.	• Final exam
CLO6 : Demonstrate understanding the concept of spectacle lenses, their subsidiary optical effects.	• Group work • Final exam
CLO7 : Demonstrate team-working skills by effectively collaborating with others.	• Group work

Learning and Teaching Technologies

Moodle - Learning Management System | Blackboard Collaborate | Microsoft Teams

Learning and Teaching in this course

All course materials and course announcements are provided on the course learning management system, Moodle.

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.

Other Professional Outcomes

Additional Course Information

SCHOOL OF OPTOMETRY AND VISION SCIENCE, UNSW SUPPLEMENTARY EXAMINATION INFORMATION, 2024

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. Submit the application (including supporting documentation) to UNSW Student Central.

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 Disability Services at https://student.unsw.edu.au/disability-registration

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 http://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 2024 WILL BE HELD AS FOLLOWS:

FOR TERM 1:

- STAGE 1-4* COURSES: WEDNESDAY, 15 MAY 2024 – FRIDAY, 17 MAY 2024
- THERE WILL BE NO SUPPLEMENTARY EXAMINATIONS FOR STAGE 5 STUDENTS IN TERM 1 2024

FOR TERM 2:

- STAGE 1-4 COURSES: WEDNESDAY, 28 AUGUST 2024 - FRIDAY, 30 AUGUST 2024
- THERE WILL BE NO SUPPLEMENTARY EXAMINATIONS FOR STAGE 5 STUDENTS IN TERM 2 2024

FOR TERM 3:

- STAGE 5 COURSES ONLY: DURING THE WEEK OF MONDAY, 9 DECEMBER 2024 – FRIDAY, 13 DECEMBER 2024
- STAGE 1-4* COURSES: WEDNESDAY, 11 DECEMBER 2024 - FRIDAY, 13 DECEMBER 2024

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, 3 August 2023

Assessments

Assessment Structure

Assessment Item	Weight	Relevant Dates	Optometry Australia competency standards
Final exam Assessment Format: Individual	55%	Start Date: Final Examination Period Due Date: Final Examination Period	• OPT1 : Clinical Care Provider • OPT3 : Communicator and Collaborator • OPT4 : Scholar and Lifelong Learner
Moodle quizzes Assessment Format: Individual Short Extension: Yes (3 days)	15%	Start Date: Please refer to Moodle announcements. Due Date: Please refer to Moodle announcements.	• OPT1 : Clinical Care Provider • OPT2 : Professional and Ethical Practitioner • OPT4 : Scholar and Lifelong Learner • OPT5 : Quality and Risk Manager
Mid-semester exam Assessment Format: Individual	15%	Start Date: 09/10/2024 02:15 PM Due Date: 09/10/2024 03:45 PM	• OPT1 : Clinical Care Provider • OPT2 : Professional and Ethical Practitioner • OPT3 : Communicator and Collaborator • OPT4 : Scholar and Lifelong Learner • OPT5 : Quality and Risk Manager
Group work Assessment Format: Group Short Extension: Yes (3 days)	15%	Start Date: Please refer to the Moodle announcements. Due Date: Please refer to the Moodle announcements.	• OPT1 : Clinical Care Provider • OPT2 : Professional and Ethical Practitioner • OPT3 : Communicator and Collaborator • OPT4 : Scholar and Lifelong Learner • OPT5 : Quality and Risk Manager

Assessment Details

Final exam

Assessment Overview

Final exam will be held to assess the knowledge and skills gained by you through lectures, tutorials and lab experiments conducted through the session (Weeks 1-10), excluding journal

article presentations. Feedback will not be provided.

Course Learning Outcomes

- CLO1 : Demonstrate knowledge of the optics of a human eye and learn how to calculate various optical parameters, including retinal image size, using schematic eye models.
- CLO2 : Describe different types of ametropia, and how to correct and measure ametropia
- CLO3 : Demonstrate understanding of the concept of accommodation and focusing ability of the human eye and how it affects the range of clear vision of ametropes.
- CLO4 : Describe various factors that affect the visual performance of the human eye such as diffraction, refractive error, and retina.
- CLO5 : Describe the basic concepts of entoptic phenomena.
- CLO6 : Demonstrate understanding the concept of spectacle lenses, their subsidiary optical effects.

Detailed Assessment Description

Please refer to the Moodle announcements for the final exam.

Assessment Length

2.30 hours

Submission notes

Moodle online examination invigilated on campus

Assignment submission Turnitin type

Not Applicable

Generative AI Permission Level

Not Applicable

Generative AI is not considered to be of assistance to you in completing this assessment. If you do use generative AI in completing this assessment, you should attribute its use.
For more information on Generative AI and permitted use please see here.

Moodle quizzes

Assessment Overview

Knowledge of the topics covered in the lectures, labs and tutorials of the previous weeks and ability to work out problems similar to the class exercises will be assessed. Learning involves knowing and remembering key definitions, formulae, underlying concepts and methods to solve problems. It is an opportunity to revise materials presented during the course. Immediate feedback will be provided in Moodle.

Course Learning Outcomes

- CLO1 : Demonstrate knowledge of the optics of a human eye and learn how to calculate various optical parameters, including retinal image size, using schematic eye models.
- CLO2 : Describe different types of ametropia, and how to correct and measure ametropia
- CLO3 : Demonstrate understanding of the concept of accommodation and focusing ability of the human eye and how it affects the range of clear vision of ametropes.
- CLO4 : Describe various factors that affect the visual performance of the human eye such as diffraction, refractive error, and retina.

Submission notes

Please refer to Moodle announcements.

Assignment submission Turnitin type

Not Applicable

Generative AI Permission Level

Not Applicable

Generative AI is not considered to be of assistance to you in completing this assessment. If you do use generative AI in completing this assessment, you should attribute its use.
For more information on Generative AI and permitted use please see here.

Mid-semester exam

Assessment Overview

Knowledge and understanding of the topics covered till Week 5 will be assessed. Ability to write definitions, understand the formulae, draw ray diagrams, and solve problems such as those worked out in class will be assessed. Feedback will be provided within 2 weeks of the assessment.

Course Learning Outcomes

- CLO1 : Demonstrate knowledge of the optics of a human eye and learn how to calculate various optical parameters, including retinal image size, using schematic eye models.
- CLO2 : Describe different types of ametropia, and how to correct and measure ametropia
- CLO3 : Demonstrate understanding of the concept of accommodation and focusing ability of the human eye and how it affects the range of clear vision of ametropes.

Detailed Assessment Description

Please refer to the Moodle announcements.

Submission notes

Please refer to Moodle for more details

Assignment submission Turnitin type

Not Applicable

Generative AI Permission Level

Not Applicable

Generative AI is not considered to be of assistance to you in completing this assessment. If you do use generative AI in completing this assessment, you should attribute its use.
For more information on Generative AI and permitted use please see here.

Group work

Assessment Overview

Group work (Lab): In each lab, you will record measurements and make calculations. The lab will involve questions to probe your understanding of the lab including ability to illustrate strategies for solving optical problems using appropriate formulae, your observation skills and the results obtained. Informal feedback will be provided during the subsequent week.

Group work (Tutorials): You will work in groups and solve a given problem based on topics covered in the lectures and tutorials at the end of tutorial session combined with two journal articles appraisal presentations.

Course Learning Outcomes

- CLO1 : Demonstrate knowledge of the optics of a human eye and learn how to calculate various optical parameters, including retinal image size, using schematic eye models.
- CLO2 : Describe different types of ametropia, and how to correct and measure ametropia
- CLO3 : Demonstrate understanding of the concept of accommodation and focusing ability of the human eye and how it affects the range of clear vision of ametropes.
- CLO4 : Describe various factors that affect the visual performance of the human eye such as diffraction, refractive error, and retina.
- CLO6 : Demonstrate understanding the concept of spectacle lenses, their subsidiary optical effects.
- CLO7 : Demonstrate team-working skills by effectively collaborating with others.

Submission notes

Please refer to the Moodle announcements.

Assignment submission Turnitin type

Not Applicable

Generative AI Permission Level

Simple Editing Assistance

In completing this assessment, you are permitted to use standard editing and referencing functions in the software you use to complete your assessment. These functions are described below. You must not use any functions that generate or paraphrase passages of text or other media, whether based on your own work or not.
If your Convenor has concerns that your submission contains passages of AI-generated text or media, you may be asked to account for your work. If you are unable to satisfactorily demonstrate your understanding of your submission you may be referred to UNSW Conduct & Integrity Office for investigation for academic misconduct and possible penalties.
For more information on Generative AI and permitted use please see here.

Referencing is a way to acknowledge sources you have used in your writing. This may include books, journal articles, websites, newspaper articles, personal communication, and more recently, the use of Artificial Intelligence (AI) tools and technologies. **Failure to reference correctly can result in plagiarism**.

According to the UNSW plagiarism policy: *copying material* from other sources without acknowledgment, as well as *incorrectly paraphrasing* (changing a few words around while retaining the original structure and/or progression of ideas) are both grounds for plagiarism. **This means that if you use outputs generated by AI in your assessment, you must cite and attribute this information accordingly.**

General Assessment Information

Grading Basis

Standard

Course Schedule

Teaching Week/Module	Activity Type	Content
Week 1 : 9 September - 15 September	Lecture	• Course introduction and Schematic eyes/ eye as an optical system: Monday 2 pm-4 pm, Online Live (BBcollaborate) • Ametropia and its correction part 1: Wednesday 2 pm-4 pm, Online Live (BBcollaborate)
	Tutorial	Schematic Eyes and Spherical Ametropia • Thursday 15:00 - 16:00, In-person attendance, Mathews 103 (K-F23-103) • Thursday 16:00- 17:00, In-person attendance, Mathews 103 (K-F23-103) • Thursday 17:00 - 18:00, In-person attendance, Mathews 103 (K-F23-103)
	Laboratory	Spherical errors of refraction: simulated eye • Friday 9 am - 10 am, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 10 am- 11 am, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 11 am- 12 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 12 pm- 1 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 2 pm- 3 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 3 pm- 4 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 4 pm- 5 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049)
Week 2 : 16 September - 22 September	Lecture	• Ametropia and its correction part 2: Monday 2 pm-4 pm, Online Live (BBcollaborate) • Subjective optometer: Wednesday 2 pm-4 pm, Online Live (BBcollaborate)
	Tutorial	Ametropia and its correction & subjective optometer • Thursday 15:00 - 16:00, In-person attendance, Mathews 103 (K-F23-103) • Thursday 16:00- 17:00, In-person attendance, Mathews 103 (K-F23-103) • Thursday 17:00 - 18:00, In-person attendance, Mathews 103 (K-F23-103)
	Laboratory	Badal Optometer: Measurement of spherical refractive error • Friday 9 am - 10 am, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 10 am- 11 am, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 11 am- 12 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 12 pm- 1 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 2 pm- 3 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 3 pm- 4 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 4 pm- 5 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049)
Week 3 : 23 September - 29 September	Lecture	• Astigmatism Part 1: Monday, Asynchronus viewing (Pre-recorded lecture) • Astigmatism Part 2: Wednesday, Asynchronus viewing (Pre-recorded lecture)
	Tutorial	Astigmatism • Thursday 15:00 - 16:00, In-person attendance, Mathews 103 (K-F23-103) • Thursday 16:00- 17:00, In-person attendance, Mathews 103 (K-F23-103) • Thursday 17:00 - 18:00, In-person attendance, Mathews 103 (K-F23-103)
	Laboratory	Simulated astigmatism eye • Friday 9 am - 10 am, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 10 am- 11 am, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 11 am- 12 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 12 pm- 1 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 2 pm- 3 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 3 pm- 4 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 4 pm- 5 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049)
Week 4 : 30 September - 6 October	Lecture	• No Lecture (Public holiday)

		• Accommodation Part 1 and Part 2: Monday, Asynchronus viewing (Pre-recorded lecture)
	Tutorial	Accommodation • Thursday 15:00 - 16:00, In-person attendance, Mathews 103 (K-F23-103) • Thursday 16:00- 17:00, In-person attendance, Mathews 103 (K-F23-103) • Thursday 17:00 - 18:00, In-person attendance, Mathews 103 (K-F23-103)
	Laboratory	Amplitude of accommodation • Friday 9 am - 10 am, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 10 am- 11 am, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 11 am- 12 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 12 pm- 1 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 2 pm- 3 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 3 pm- 4 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 4 pm- 5 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049)
Week 5 : 7 October - 13 October	Lecture	• Optics of subjective refraction: Monday 2 pm-4 pm, Online Live (BBcollaborate) • Midterm exam: Wednesday 2.15 pm-3.45 pm,
	Tutorial	Journal Article Presentation (1) • Thursday 15:00 - 16:00, In-person attendance, Mathews 103 (K-F23-103) • Thursday 16:00- 17:00, In-person attendance, Mathews 103 (K-F23-103) • Thursday 17:00 - 18:00, In-person attendance, Mathews 103 (K-F23-103)
	Laboratory	Visual resolution and discrimination • Friday 9 am - 10 am, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 10 am- 11 am, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 11 am- 12 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 12 pm- 1 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 2 pm- 3 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 3 pm- 4 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 4 pm- 5 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049)
Week 6 : 14 October - 20 October	Other	Flexibility Week (No classess)
Week 7 : 21 October - 27 October	Lecture	• Optical factors affecting visual resolution: Monday 2 pm-4 pm, Online Live (BBcollaborate) • Retinal image analysis: Wednesday 2 pm-4 pm, Online Live (BBcollaborate)
	Tutorial	Optical factors affecting the visual resolution &Retinal image analysis • Thursday 15:00 - 16:00, In-person attendance, Mathews 103 (K-F23-103) • Thursday 16:00- 17:00, In-person attendance, Mathews 103 (K-F23-103) • Thursday 17:00 - 18:00, In-person attendance, Mathews 103 (K-F23-103)
	Laboratory	Optical factors affecting the visual resolution • Friday 9 am - 10 am, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 10 am- 11 am, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 11 am- 12 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 12 pm- 1 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 2 pm- 3 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 3 pm- 4 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 4 pm- 5 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049)
Week 8 : 28 October - 3 November	Lecture	• Ocular correction of ametropia including near correction: Monday 2 pm-4 pm, Online Live (BBcollaborate) • Midterm exam feedback: Wednesday 2 pm-4 pm, Online Live (BBcollaborate)
	Tutorial	Journal Article Appraisal (2) • Thursday 15:00 - 16:00, In-person attendance, Mathews 103 (K-F23-103) • Thursday 16:00- 17:00, In-person attendance, Mathews 103 (K-F23-103)

		• Thursday 17:00 - 18:00, In-person attendance, Mathews 103 (K-F23-103)
	Laboratory	Retinal limits to resolution • Friday 9 am - 10 am, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 10 am- 11 am, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 11 am- 12 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 12 pm- 1 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 2 pm- 3 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 3 pm- 4 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 4 pm- 5 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049)
Week 9 : 4 November - 10 November	Lecture	• Entoptic phenomena: Monday 2 pm-3 pm, Online Live (BBcollaborate) • Dispersion & Aberration: Monday, Asynchronus viewing (Pre-recorded lecture) • Introduction to spectacle lenses spectacle magnification and field of view: Wednesday 2 pm-4 pm, Online Live (BBcollaborate)
	Tutorial	Dispersion & Aberration and Spectacle lenses spectacle magnification and field of view • Thursday 15:00 - 16:00, In-person attendance, Mathews 103 (K-F23-103) • Thursday 16:00- 17:00, In-person attendance, Mathews 103 (K-F23-103) • Thursday 17:00 - 18:00, In-person attendance, Mathews 103 (K-F23-103)
	Laboratory	Corneal curvature • Friday 9 am - 10 am, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 10 am- 11 am, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 11 am- 12 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 12 pm- 1 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 2 pm- 3 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 3 pm- 4 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 4 pm- 5 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049)
Week 10 : 11 November - 17 November	Lecture	• Prismatic effects of spectacle lenses: Monday 2 pm-4 pm, Online Live (BBcollaborate) • Aberrations and subsidiary effects of spectacle lenses: Wednesday 2 pm-4 pm, Online Live (BBcollaborate)
	Tutorial	Prismatic effects of spectacle lenses and Aberrations and subsidiary effects of spectacle lenses • Thursday 15:00 - 16:00, In-person attendance, Mathews 103 (K-F23-103) • Thursday 16:00- 17:00, In-person attendance, Mathews 103 (K-F23-103) • Thursday 17:00 - 18:00, In-person attendance, Mathews 103 (K-F23-103)
	Laboratory	Axes of the eyes • Friday 9 am - 10 am, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 10 am- 11 am, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 11 am- 12 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 12 pm- 1 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 2 pm- 3 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 3 pm- 4 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049) • Friday 4 pm- 5 pm, In-person attendance, Optometry Optics Laboratory (K-M15-3049)

Attendance Requirements

Students are strongly encouraged to attend all classes and review lecture recordings.

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 practicals

Swapping between practical and tutorials groups are not permitted.

Additional attendance requirements for practical classes

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 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 for practical classes may be recorded as an absence.

Students are expected to attend all scheduled 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. Please contact the course convenor A/ Professor Maitreyee Roy: maitreyee.roy@unsw.edu.au.

Course Resources

Prescribed Resources

Textbooks

Prescribed textbook:

- 'Clinical Visual Optics' by Bennett and Rabbetts, BH, 4th Ed., 2007.

Available at the bookshop and the UNSW library.

Recommended textbook:

- Introduction to Visual Optics, Alan H Tunnacliffe, Assoc. of British Disp. Optician 4th Ed. 1993.
- Geometrical and Visual Optics, Steven H. Schwartz, McGraw Hill, 2nd Ed.2013.

Available in the bookshop and the UNSW library.

Required reading

- Lecture notes and other information will be made available on Moodle whenever possible.
- A soft copy of the Lab Manual is available on Moodle.

Compulsory and optional readings, as specified by the lecturers throughout the session, will be listed on Moodle and provided when not accessible online through the UNSW library.

Moodle announcements for VISN1221 should be checked every day or two. This includes any scheduling changes, last minutes updates, etc. In addition, the school website will hold important information, including timetables, staff contact details, and information on supplementary examinations. (http://www.optometry.unsw.edu.au)

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	Maitreyee Roy		3.032		Appointment by email only.	No	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 Plagarism

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 of your assessment tasks. Inappropriate use of generative AI is considered academic misconduct.

Options for the use of generative AI include: (1) no assistance (for invigilated assessments); (2) simple editing assistance; (3) drafting assistance; and (4) full assistance with attribution; and (5) Generative AI software-based assessments. See your individual assessment descriptions for the level of permitted use of generative AI for each task and see your course Moodle (or Open Learning) page for the full instructions on permitted use of generative AI in your assessment tasks for this course.

Instructions may include a requirement to submit the original generative AI responses, or drafts of your original work, or provide on request.

Submission of Assessment Tasks

Short extensions and special consideration

Short extension

UNSW has a short extension procedure for submission of assessment tasks. Not all tasks are eligible, and eligible tasks have a predetermined extension length. UNSW Medicine and Health have set School-level extension lengths for eligible assessment tasks. See your course assessment descriptions for more information.

Students must check the availability of a short extension in the individual assessment task information for their courses.

Short extensions do not require supporting documentation. They must be submitted through Special Consideration before the assessment task deadline. No late applications will be accepted.

Late penalties apply to submission of assessment tasks without approved extension.

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. Examinations include centrally timetabled examinations and

scheduled, timed examinations and tests managed by your School.

Important information relating to Short Extension and Special Consideration is available here, including eligibility for Special Consideration, circumstances where students with Equitable Learning Plans can apply for Short Extensions and Special Consideration, and the appeals process.

Examinations

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

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

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).