



Course Outline

VISN1101

Seeing the World: Perspectives from Vision Science

Optometry and Vision Science

Faculty of Science

Term 1, 2019

1. Staff

Position	Name	Email	Consultation times and locations	Contact Details
Course Convenor	Dr Nayuta Yoshioka	n.yoshioka@unsw.edu.au	During lectures or email for appointment RMB 3.055	n.yoshioka@unsw.edu.au
Lecturer	Dr Juno Kim	juno.kim@unsw.edu.au	During lectures or email queries	juno.kim@unsw.edu.au
Lecturer	Dr Sieu Khuu	s.khuu@unsw.edu.au	During lectures or email queries	s.khuu@unsw.edu.au
Tutor & Demonstrator	TBC	TBC	TBC	TBC
Technical & Laboratory Staff	Dr Dale Larden	d.larden@unsw.edu.au	During practical/tutorial classes or email queries RMB 2.010	d.larden@unsw.edu.au

2. Course information

Units of credit: 6 UOC

Pre-requisite(s): For students intending to take this course as a core component of an Optometry or Vision Science major, HSC Mathematics is assumed knowledge. HSC Physics is recommended knowledge.

Bridging Courses are available to students entering UNSW; these courses usually run in January - February, before the start of Term 1. Students who do not have the appropriate assumed or recommended knowledge are strongly advised to undertake the relevant Bridging Course/s, or other appropriate preparation.

Teaching times and locations: UNSW Kensington Campus, Term 1. Some activities and assessments are provided online on Moodle. Please see <http://timetable.unsw.edu.au/2019/VISN1101.html> for lecture and tutorial/practical class locations.

2.1 Course summary

After completing this course, you will never see the world the same way again. This course provides an overview of how the eyes and brain work together to enable visual perception. The overview includes an introduction to the structure and function of the human eye and visual brain. You will also learn about the

professional pathways open to vision scientists and optometrists and how discoveries in optometry and vision science are used to improve vision and combat disease. The course also builds the graduate attributes required by vision scientists and optometrists by providing an introduction to research and communication skills including critical thinking, statistics, collaborative research and group presentation. It is the first course in the vision science major in the science or advanced science programs and in the optometry program (<http://www.handbook.unsw.edu.au/undergraduate/courses/2019/VISN1101.html>).

2.2 Course aims

The course aims to introduce the eye and visual system, sensory perception and the professional context in which this understanding is applied in optometry and the vision sciences. Therefore, students will be introduced to clinical and research methods and activities and have the opportunity to interact with practicing optometrists and vision scientists through carefully designed activities.

The course will provide students with the opportunity to develop a sense of identity and belonging with their colleagues, their program of study and their professional community. The course also aims to introduce students to research methods, focusing on evidence-based practice and basic statistics.

This course is intended to equip students who intend on pursuing an optometry or vision science major to have the foundation skills for further study in this area.

2.3 Course learning outcomes (CLO)

There are three streams in this course which are:

1. Visual perception and the visual system
2. Research methods
3. SCIF – developing an optometry and vision science learning community

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

1. Describe sensory perception and the role of visual perception.
2. Understand the gross anatomy of the eye and visual system and how they function together to result in visual perception, and interrelationships of all the major components of the visual system.
3. Be able to describe some of the processes of homeostasis which support cellular, organ and system function in the eye and human body.
4. Become familiar with the initial processes of evidence-based practice and understand the basics of research enquiry and statistics in the context of vision science.
5. Understand the discipline of optometry and vision science, its interdisciplinary context, and the professional pathways open to optometrists and vision scientists.
6. Reflect on personal development of graduate attributes¹ and their relevance to the discipline of optometry and vision science.
7. Effectively communicate theoretical knowledge gained in this course in both oral and written formats.

¹ See Appendix 1 of this document

8. Develop team working skills to be able to effectively work with others.

2.4 Relationship between course and program learning outcomes and assessments

This course is designed to address the CLO and PLO as below. This course is a core and foundational course for Bachelor of Vision Science program (3181 and 3182) and the Master of Optometry program (3182 and 8095). The completion of both programs will allow graduates to register as a practicing optometrist in Australia and New Zealand. Accordingly, this course also aims to address some of the Optometry Australia Entry-Level Competency Standards (ELC)² and/or to teach foundational/prerequisite knowledge so these may be addressed in other parts of the programs.

Course Learning Outcome (CLO)	Learning Outcome Statement	Program Learning Outcome (PLO)	Related Tasks & Assessment
CLO 1	Describe sensory perception and the role of visual perception. (ELC: 3.1, 3.4, 3.5, 3.7, 4.5, 4.7, 4.8, 4.10, 4.14)	PLO 3181: ³ 1, 3, 4, 5, 7 PLO 3182: ⁴ 1, 3, 5, 6	Lectures Tutorial/Practical classes Moodle Quiz Mid-term & Final Exams
CLO 2	Understand the gross anatomy of the eye and visual system and how they function together to result in visual perception, and interrelationships of all the major components of the visual system. (ELC: 3.2, 3.3, 3.4, 3.5, 3.6, 4.5, 4.7)	PLO 3181: 1, 3, 4, 5, 7 PLO 3182: 1, 3, 5, 6	Lectures Tutorial/Practical classes Moodle Quiz Mid-term & Final Exams
CLO 3	Be able to describe some of the processes of homeostasis which support cellular, organ and system function in the eye and human body. (ELC: 3.1, 3.2, 3.3, 3.8, 4.7, 4.9)	PLO 3181: 1, 3, 4, 5, 7 PLO 3182: 1, 3, 5, 6	Lectures Moodle Quiz Mid-term & Final Exams
CLO 4	Become familiar with the initial processes of evidence-based practice and understand the basics of research enquiry and statistics in the	PLO 3181: 1, 2, 3, 4, 5, 7 PLO 3182: 1, 3, 6, 7	Lectures Tutorial/Practical classes

² The full version of the current standard is available from: Kiely, P. M. and J. Slater (2015). "Optometry Australia Entry-level Competency Standards for Optometry 2014." *Clinical and Experimental Optometry* **98**(1): 65-89. <https://onlinelibrary.wiley.com/doi/10.1111/cxo.12216>

³ <https://www.handbook.unsw.edu.au/undergraduate/programs/2019/3181>

⁴ <https://www.handbook.unsw.edu.au/undergraduate/programs/2019/3182>

	context of vision science. (ELC: 1.1, 1.2, 1.4, 1.8, 1.9, 1.10, 1.12, 2.1, 2.5, 4.4, 5.1)		Moodle Quiz Mid-term & Final Exams eLearning Portfolio
CLO 5	Understand the discipline of optometry and vision science, its interdisciplinary context, and the professional pathways open to optometrists and vision scientists. (ELC: 1.1,1.3, 1.4, 1.5, 1.6, 1.7, 1.8, 1.9, 1.10, 1.11, 1.12, 4.4, 4.11, 4.13,	PLO 3181: 1, 2, 3, 6 PLO 3182: 1, 4	Lecture (Careers Panel) eLearning Portfolio
CLO 6	Reflect on personal development of graduate attributes and their relevance to the discipline of optometry and vision science. (ELC: 1.1, 1.2, 1.3, 1.4, 1.5, 1.6, 1.8, 1.9, 1.12, 5.1, 5.2)	PLO 3181: 1, 3, 4, 6, 7 PLO 3182: 1, 4, 6	eLearning Portfolio
CLO 7	Effectively communicate theoretical knowledge gained in this course in both oral and written formats. (ELC: 1.5, 1.6, 1.9, 1.10, 1.11, 2.1, 2.3, 4.4, 4.11, 4.13, 4.14, 5.1)	PLO 3181: 1, 2, 5 PLO 3182: 1, 2, 3, 7	eLearning Portfolio
CLO 8	Develop team working skills to be able to effectively work with others. (ELC: 1.3, 1.4, 1.5, 1.6, 1.7, 1.9, 1.10, 1.11, 4.4, 4.11, 4.13)	PLO 3181: 1, 2, 5 PLO 3182: 1, 2, 3, 7	Tutorial/Practical classes eLearning Portfolio

3. Strategies and approaches to learning

3.1 Learning and teaching activities

A number of different features in addition to lectures will be used to aid learning in this course:

Moodle self-test quizzes – the self-test quizzes are designed to give you feedback on your level of understanding throughout the term.

Practical and tutorial classes – These classes will support what is taught in lectures by allowing space and time for thinking, discussion and the opportunity you to perform tests and activities.

e-Learning Portfolio and activities – You will document your growing understanding of optometry and vision science, and your reflections of how your improved understanding assists you as a student, your developmental goals and how you see yourself in your future career. Major activities included in the e-learning portfolio assessment include interacting with students who are in the higher years of your course and practicing optometrists while visiting the UNSW Optometry clinic as a clinic patient and interacting with researchers in vision science by contributing to scientific knowledge by being a research participant. The group presentation component will require you to work with a group of people, with whom you are not necessarily familiar with, on a project in which you are able to tackle an important issue related to the optometry and vision science. You will be encouraged to express your answer creatively.

3.2 Expectations of students

Expectations of Students	<p><u>Course Attendance:</u></p> <p>Teaching for this course will predominantly be in face-to-face format and while lecture recordings will be made available online, students are expected to attend all lectures.</p> <p>The course also consists of online materials and assessment, which includes pre and post lecture and tutorial/practical materials and the assessable Moodle Quizzes. Students are expected to access the Moodle website regularly throughout the term.</p> <p>Some components of this course are compulsory, and you are expected to attend. Attendance at compulsory course components will be monitored by asking attendees to sign an attendance register.</p> <p>The compulsory course components, and the justification for their compulsory nature, are as follows:</p> <ul style="list-style-type: none">• The Careers Panel event in Week 7 is compulsory because of the special expertise of the presenters, which will provide information not accessible from other sources. Students may also find the topic of this lecture to be helpful for completing the reflective component of the eLearning Portfolio.• All practical/tutorial classes in this course must be attended 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 year of the program.• A student's combined attendance rate must be at least 80% for these components. Failure to attend the required number of classes without applying for special consideration may result in course failure. <p><u>Attendance registers:</u></p> <p>In courses where signature on an attendance register is used to monitor attendance, all enrolled students must provide a specimen signature for the central School register. These will be collected during the tutorial in Week 1. The central register will be overseen by Dr Dale Larden/Paul Zytynik. Please bring your student card with you when providing your specimen signature. Only one variant of your signature may be used on the central register and on all attendance registers.</p> <p>If your signature does not appear on an attendance register for a compulsory course component, or if the signature on the attendance register does not match the signature on the central register, it will be assumed that you were absent from the compulsory course component.</p> <p>Attempts to falsify the central register or attendance registers will be managed under UNSW Student Misconduct Procedures: https://www.gs.unsw.edu.au/policy/documents/studentmisconductprocedures.pdf</p> <p><u>Communications:</u></p> <p>The primary and official mode of communication between the student and the School is the UNSW Zmail (see "Email" section below for more detail) and the Announcement Forum in Moodle. It is the responsibility of the students to check on these regularly.</p> <p>In order to facilitate course and learning related student-student and student-instructor communication, a separate Q&A Forum is also available on Moodle. Please note that this forum is to be used for discussion on course related educational materials and topics only.</p>
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Please refer to and observe the Forum Use Guidelines & Rules on the Forum as well as relevant UNSW policies and governance⁵ before using the forum.

Email

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

⁵ Responsible use of UNSW ICT Resource Policy: <https://www.gs.unsw.edu.au/policy/documents/ictpolicy.pdf>
UNSW Student Code Policy: <https://www.gs.unsw.edu.au/policy/documents/studentcodepolicy.pdf>

4. Course schedule and structure

This course consists of 3 hours of face-to-face contact time per week (2 hours of lecture and 1 hour of practical/tutorial). It is also the responsibility of the students to schedule adequate out-of-class study time to ensure satisfactory completion of the course.

Week	Lectures (Monday 10-11am) Webster Theatre B	Lectures (Monday 11am-12pm), Webster Theatre B	Tutorial/Practical (day), Topics & Lecturers*	Assignment and Submission dates	CLO
Week 1	Introduction to course/ EBP (NY)	The problem of perception (JK)	EBP OMB LG21	e-Learning portfolio assignment released	1, 4, 8
Week 2	Overview of visual pathways and processes (JK)	How to be an evidence-based practitioner, Evidence-Based Practice (EBP) and the research process (NY)	EBP OMB LG21	Moodle Quiz	1, 2, 4
Week 3	Eye movement and perception of form and motion (JK)	Why do we need statistics? (hypothesis testing, populations and samples) (SKK)	Ethics Goldstein G05		1, 4, 5
Week 4	Multisensory integration 1 (JK)	Statistics (samples, distributions and the t-test) (SKK)	Stats Goldstein G05	Moodle Quiz	1, 4
Week 5	Multisensory integration 2 (JK)	Cells to systems (NY) Anterior eye (NY)	Eye dissection† Wallace Wurth 120		1, 2, 3
Week 6	Mid-term exam		Observing the anterior living eye RMB 2.009	Mid-term exam	2
Week 7	Careers panel*		Observing the anterior living eye RMB 2.009		2, 5, 6
Week 8	Anterior eye (NY) Posterior eye (NY)		Observing the posterior living eye RMB 2.009	e-Learning portfolio assignment due	2, 3
Week 9	Light and dark adaptation, visual acuity, refractive error and accommodation (NY)		Observing the posterior living eye# RMB 2.009		1, 2, 3
Week 10	Public Holiday – no lecture (moved to Week 11)		Refractive error	Moodle Quiz	1, 2
Week 11	Group Presentations		No tutorial/practical class		5, 6, 7, 8

* Denotes classes which attendance is compulsory (all tutorial/practical classes and Week 7 lecture).

† Lab coat and eye protection is required for Week 5 practical (see Section 8: “Administrative Matters”)

Week 9 Friday tutorial/practical classes moved to Wednesday 1st May Week 11

Lecturers: NY: (Dr Nayuta Yoshioka), JK: (Dr Juno Kim), SKK: (Dr Sieu Khuu)

5. Assessment

5.1 Assessment tasks

Assessment task	Length	% of total mark	Release date	Due date	CLO Assessed
Assessment 1: Moodle Self-Test Quizzes	~30 minutes	10%	Weeks 2, 4 and 10	Sunday midnight of Weeks 2, 4 and 10 respectively.	1-4
Assessment 2: e-Learning Portfolio	Throughout the semester	25%	Week 1 Monday 18 th Feb	Activity 1: Week 8, Friday April 12 th 5pm Activity 2: Week 11 Friday 26 th April 5pm	4-8
Assessment 3: Mid-session exam	2 hours	20%	Week 6 Monday 25 th March	Week 6 Monday 25 th March	1-4
Assessment 4: Final exam	2 hours	45%	Exam period	Exam period	1-4

Further information

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

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

5.2 Assessment criteria and standards

Assessment 1: Moodle Self-Test Quizzes

Knowledge & abilities assessed:

Each quiz covers materials taught in the previous weeks to provide regular feedback on level of understanding of course materials.

Assessment criteria:

Accuracy of answers, highest grade from up to 3 attempts.

Assessment 2: e-Learning Portfolio

Knowledge & abilities assessed:

Completion of activities, and reflection of how each of the activities contributed to personal growth in understanding of the discipline of optometry and vision science, and the professional context in which it is practiced. Activities include:

1. Being a UNSW Optometry Clinic patient and participation in vision science research
2. Group presentation

The group presentation will assess the following:

1. Group work communication, collaboration, team work skills
2. Presentation skills
3. Ability to conduct research and analytical thinking

Detailed assessment instruction and the grading rubric will be released on Moodle in Week 1.

Assessment criteria:

1. Ability to assemble a document which demonstrates satisfactory participation in the stipulated activities, and reflection of how each of the activities contributed to personal growth in understanding of one or more of the following: the ethical practice of your future profession, the scope and skill set required in the practice of optometry and vision science, the development of UNSW Graduate Attributes.
2. Ability to formulate a question which relates ocular and visual pathway structure in perception, and demonstrate literature search method and analysis of quality of evidence in relation to the formulated question through a group work presentation and participation

Assessment 3: Mid-session Exam

Knowledge & abilities assessed:

Understanding of all material taught from Weeks 1-5 inclusive

Assessment criteria:

Accuracy of answers

Assessment 4: Final Exam

Knowledge & abilities assessed:

Understanding of all material taught Weeks 1-10 inclusive, excluding group presentation and career panel activity

Assessment criteria:

Accuracy of answers

5.3 Submission of assessment tasks

Assignment Submissions	<p>Assignments should be submitted via Moodle (electronic submission).</p> <p>This includes completed laboratory reports and logs which should be scanned/photographed and submitted via Moodle.</p> <p>If your assignment requires submission of a pair of glasses/contact lenses, these may be submitted via the Assignment submission box at the Student Enquiry office (North Wing, Rupert Myers Building, Room 3.003), however the accompanying report should be submitted via Moodle.</p> <p>Marked assignments can be collected from the:</p> <ul style="list-style-type: none"> • School Enquiry office during counter opening hours. You must show a valid student card to do this. <p>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/current/policies-and-procedures</p>
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<p>Assessment Procedures</p> <p>UNSW Assessment Policy⁶</p>	<p>SCHOOL OF OPTOMETRY AND VISION SCIENCE, UNSW</p> <p>SUPPLEMENTARY EXAMINATION INFORMATION, 2019</p> <p>There are two circumstances whereby a supplementary examination may be granted:</p> <p>COMPETENCY IN DOUBT</p> <p>Students whose competency level is in doubt after the final examination(s) may be eligible to sit a supplementary examination in the course(s) concerned.</p> <p>Please check the School website for this information.</p> <p>SPECIAL CONSIDERATION</p> <p>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. To do this you must make formal application for Special Consideration for the course/s affected as soon as practicable after the problem occurs and within three working days of the assessment to which it refers. 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.</p> <p>Special Consideration - Pre-Existing Conditions</p> <p>Many conditions that are the subject of special consideration applications are pre-existing and could be used repeatedly to gain examinations at a later date. These include conditions aggravated or triggered by the stress of the assessment. With the help of your doctor and/or other health care practitioners, steps can be taken ahead of the assessment time to minimise or avoid the consequences of these conditions. When applying for special consideration on the basis of a condition that was already known to be a problem for you and which you have already used as the basis for a special consideration application, the School will require you to provide a certificate that details the preventative measures taken and why they were not successful. This will then be taken into account when considering the application.</p> <p>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 above.</p> <p>You are reminded that supplementary examinations are not granted lightly or automatically. Eligibility for supplementary examinations, for both of the above situations, is determined by the School Examination Committee, which meets soon after the formal examination period has ended. You cannot “apply” for a supplementary examination, so please do not contact the School or Course Controllers to request a supplementary examination.</p>
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⁶ [UNSW Assessment Policy](#)

It is the responsibility of the student to consult the web site or noticeboard to ascertain whether they have supplementary examinations. This information WILL NOT be conveyed in ANY other manner. Interstate, overseas or any other absence cannot be used as an excuse.

This information will be available on the School web site at <https://www.optometry.unsw.edu.au> (do not confuse the School website with the myUNSW website) and posted on the notice board on Level 3. This information will be available as soon as possible after the School Examination Committee meeting.

SUPPLEMENTARY EXAMINATIONS FOR 2019 WILL BE HELD AS FOLLOWS:

FOR TERM 1:

- STAGE 1-4* COURSES: Friday May 24th to 31st
- THERE WILL BE NO SUPPLEMENTARY EXAMINATIONS FOR STAGE 5 STUDENTS IN TERM 1 2019

FOR TERM 2:

- STAGE 1-4* COURSES: Friday September 6th to 13th
- THERE WILL BE NO SUPPLEMENTARY EXAMINATIONS FOR STAGE 5 STUDENTS IN TERM 2 2019

FOR TERM 3:

- STAGE 1-4* COURSES: end of December or early January (TBA)
- STAGE 5 COURSES: end of December or early January (TBA)

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 for illness still applies.

If additional assessment is not scheduled, this does NOT indicate whether or not a student has passed or failed the course. Results will be received in the usual way. Please do not contact the School in this regard.

Please note the above applies to OPTM and VISN courses only. Any information on supplementary examinations for servicing courses (e.g. CHEM****) is the responsibility of the School conducting the course.

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

5.4. Feedback on assessment

Provision of feedback is essential for the effective delivery of education. Therefore, the assessment tasks have been designed to allow the provision of feedback throughout the course to encourage students to reflect upon their progress and achievement. This is detailed as below.

Assessment	WHO	WHEN	HOW
Moodle Self-Test Quizzes	Automated feedback from lecturers	Within 10 working days of assessment submission	Moodle
e-Learning Portfolio	Course Convenor	Within 10 working days of assessment submission	Moodle
Mid-session exam	Course Convenor	Within 10 working days of assessment submission	Moodle
Final exam	Course Convenor	Released with final course mark	Released with final course mark

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

Preferred referencing style for this course is Harvard style (<https://student.unsw.edu.au/harvard-referencing>).

Students are encouraged to use referencing software such as Endnote (<https://www.it.unsw.edu.au/students/software/endnote.html>).

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.⁷ 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.

⁷ International Center for Academic Integrity, 'The Fundamental Values of Academic Integrity', T. Fishman (ed), Clemson University, 2013.

7. Readings and resources

Textbooks:

There are two set textbooks and four recommended textbooks. All textbooks will be useful for more than one year, if you intend on taking optometry or vision science subjects in 2nd year and beyond.

Set text:

- Remington, LA (2012) Clinical Anatomy of the Visual System. 3rd edition. Butterworth-Heinemann
- Moore, D., McCabe, G., and Craig, B (2017). Introduction to the Practice of Statistics. 9th edition. Freeman

Recommended texts:

- Sherwood, L (2013) Human Physiology: From Cells to Systems. 9th edition. Brooks/Cole
- Millidot, M (2009) Dictionary of Optometry and Visual Science. 7th edition. Butterworth-Heinemann.
- Stanfield, CL (2017) Principles of Human Physiology 6th edition. Boston: Pearson Education
- Field, A. (2017) Discovering Statistics using IBM SPSS Statistics. 5th edition. SAGE Publications Ltd

All texts are available at the UNSW Bookshop or at the UNSW Library

Required Reading:

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

Moodle announcements for VISN1101 are an essential part 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.

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>).

Additional Reading:

Compulsory and optional readings as specified by the lecturers throughout the session will be made available on Moodle when not accessible on-line through the UNSW library.

Q&A Forum is available in Moodle for an open instructor-student and student-student discussion. Note that this is for topics **related to the course only** and you are expected to exercise common sense and abide by the forum rules.

Computer Labs & Software:

The Optometry Computer Laboratory located at OMB LG21 can be used by Optometry and Vision Science students when classes are not in progress. Room availability is usually stated on a weekly schedule posted on the door.

If these spaces are occupied or unavailable, then the UNSW Library contains vast study and computing spaces that are open for longer hours than those in the school. Consult the UNSW Library website (<http://www.library.unsw.edu.au/>) for opening hours – hours are often longer at exam time. If you are concerned getting to/from the library at night, you can contact UNSW Security (<http://www.security.unsw.edu.au> or 9385 6000) for personal escort services around the UNSW campus.

Students are encouraged to download and utilise “Endnote”, a referencing app which will be useful throughout the program. This is available for UNSW students to download at:

<https://www.it.unsw.edu.au/students/software/endnote.html>.

Student Societies & Other resources:

The School has a peer support program for fourth year students to induct and orientate first year students and help them transition to university life. For more information, visit <https://student.unsw.edu.au/optometry-peer-mentoring> and <https://www.optometry.unsw.edu.au/future/2019-peer-mentees-application>.

You should elect your year representatives to the UNSW Optometry Student Society (<http://www.optomsoc.com/>). They will be organising a number of social events and functions this session which you are all encouraged to attend.

Previous years have set up Facebook groups for the year (e.g. Class of 2022 <https://www.facebook.com/groups/157850414858686/>). You may wish to consider creating a similar group. There are also many other Facebook groups which you can also join including:

- UNSW Optometry Student Society (<https://www.facebook.com/UNSWOptomsoc/>)
- UNSW Optometry and Vision Science (<https://www.facebook.com/UNSWOptom/?fref=ts>)
- UNSW Optometry Clinic (<https://www.facebook.com/UNSWoptometryclinic/>)

8. Administrative matters

Required Equipment, Training and Enabling Skills

Equipment Required	<p>Lab coat and safety glasses (such as those used in Chemistry) or spectacles will be required for the dissection practical held during Week 5.</p> <p>If you do not take chemistry so do not have safety spectacles or a lab coat, please arrange to borrow from a classmate who attends a different class.</p>
Enabling Skills Training Required to Complete this Course	<p>The UNSW Current Student site (https://student.unsw.edu.au/support) has helpful resources on a variety of topics including time management, examination preparation, and oral presentations.</p> <p>The Learning Centre also offers academic skills support to all students enrolled at UNSW (http://www.lc.unsw.edu.au).</p> <p>All commencing UNSW undergraduate students are expected to have completed the ELISE quiz accessible via Moodle. More information on ELISE is available on http://subjectguides.library.unsw.edu.au/elise/home</p>

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	December 2018	<p>This course has undergone major structural revisions in line with the new trimester system (UNSW3+) and the Digital Uplift Project by the PVCE.</p> <p>Many new online digital activities and learning resources have been created and subsequently incorporated into the course as part of the Digital Uplift project. This enables some of the learning to be shifted to a digital platform for increased flexibility and interactivity. Students are therefore strongly encouraged to complete these interactive online learning modules as instructed, either before or after the class.</p> <p>As part of the transition to the trimester system, major changes to the course schedule has been implemented.</p>
	February 2015	<p>This course was presented for the first time in 2013, encompassing three strands including vision, the eye and visual system, research methods and the SCIF component for optometry and vision science students. The course has undergone major revision with the assistance of the UNSW Learning and Teaching Unit and the Faculty of Science.</p>

<p>myExperience⁸</p>	<p>February 2015</p>	<p>Some students found that the simultaneous presentation of 3 streams was confusing so the course has been revised so that only 2 streams are presented simultaneously.</p> <p>Tutorial and practical time has been reduced to 1 hour face-to-face per week to facilitate timetabling with other first year courses.</p> <p>Instead of face-to-face tutorial and practical time, self-test online quizzes with automated feedback will be presented 3 times during the term requiring approximately 1-2 hours of revision time for successful completion. Feedback will also be more timely as a result.</p> <p>Some students had difficulty reconciling the interrelationships between the 3 streams so this is made clearer by structuring the SCIF activities within an eLearning Portfolio and by structuring the EBP assignment so that it highlights further the between links visual perception and ocular and visual system physiology.</p>
<p>Other</p>		<p>This course is a result of extensive consultation with the profession, industry, and previous students who have studied in this current program.</p> <p>Previous students have commented on course components as follows:</p> <p>Group communications: "Doing tasks such as this really makes us think about what type of person we are. How do we see ourselves, and others? How do we think, and do we allow consideration for others' views?"</p> <p>Careers panel: "Our future as students is one of the biggest concerns....I found the presentation factual and educational. It has provided me with the basics of where my future stands and how many opportunities are present."</p> <p>Being a clinic patient: "I now know that I not only need to study for good marks, but I will also need to constantly revise the material I have learnt because it will become essential when I graduate".</p>

⁸ myExperience process: <https://teaching.unsw.edu.au/myexperience>

Work Health and Safety⁹	<p>Information on relevant Occupational Health and Safety policies and expectations both at UNSW and if there are any school specific requirements.</p> <p>Information on relevant policies and expectations is provided during General Safety Induction training. A copy of the Induction booklet distributed at this training is available from the School of Optometry and Vision Science office (RMB3.003) and the School website at: https://www.optometry.unsw.edu.au/whs/work-health-and-safety</p>		
Equity and Diversity	<p>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 Equity and Diversity Unit (9385 4734 or http://www.studentequity.unsw.edu.au/).</p> <p>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.</p>		
Student Complaint Procedure¹⁰	School Contact	Faculty Contact	University Contact
	<p>Prof. Helen Swarbrick h.swarbrick@unsw.edu.au Tel: 9385 4373</p>	<p>A/Prof Janelle Wheat Deputy Dean (Education) j.wheat@unsw.edu.au Tel: 9385 0752</p> <p>Or</p> <p>Dr Gavin Edwards Associate Dean (Academic Programs) g.edwards@unsw.edu.au Tel: 9385 4652</p>	<p>Student Integrity Unit (SIU) Telephone 02 9385 8515, email studentcomplaints@unsw.edu.au</p>
University Counselling and Psychological Services¹¹	<p>Information on Counselling and Psychological Services [CAPS] is available at: https://www.counselling.unsw.edu.au/ Tel: 9385 5418</p>		

⁹ [UNSW OHS Home page](#)

¹⁰ [Student Complaint Procedure](#)

¹¹ [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

Appendix 1. Graduate Attributes

Graduate Attributes Developed in this Course ¹²		
Science Graduate Attributes	Select the level of FOCUS <i>0 = NO FOCUS 1 = MINIMAL 2 = MINOR 3 = MAJOR</i>	Activities / Assessment
Research, inquiry and analytical thinking abilities	3	Research Methods classes will equip you with the skills to understand the research process and what data is. You will have tutorial classes where you practice applying these skills. You will also have a group presentation which requires you to conduct research and analytical thinking.
Capability and motivation for intellectual development	3	You will be taught the big picture of the anatomical, physiological and psychological basis of vision with some detailed examples to demonstrate principles. The curriculum has been designed in order to provide you with a professional framework around which you can fit this big picture understanding. All materials have professional relevance.
Ethical, social and professional understanding	2	You will be asked to keep an online portfolio which will document the growth in your understanding of optometry and vision science, and your reflections of how your improved understanding assists you as a student, your developmental goals and how you see yourself in your future career. The e-Learning portfolio assignment will enable you to understand how the three streams are providing you with a foundation for future studies in optometry and the vision sciences.
Communication	2	Excellent communication skills are an essential attribute for any optometrist, vision scientist or university graduate. The group presentation will give you the chance to develop your group work communication and presentation skills and you will develop an understanding the importance of excellent communications skills through the e-Learning portfolio assignment.
Teamwork, collaborative and management skills	2	Teamwork is an essential skill required both in optometry, the research world, the ophthalmic industry and as a university student. The optometrist and vision scientist may be an important leader in a wider team. The group presentations will allow you to develop teamwork and collaboration skills.
Information literacy	3	An important component of this course is to develop your information literacy skills. A vision scientist will need to keep up to date with important developments in the scientific field, whilst an optometrist will need to know the latest in diagnosis and treatment techniques. Wherever your studies take you in the future, you will need to possess superior skills in finding out the information you need. The EBP tutorials and group presentation assignment will allow you to develop the skills and ability to make appropriate and effective use of relevant information.

¹² Contextualised Science Graduate Attributes: <https://www.science.unsw.edu.au/our-faculty/science-graduate-attributes>