UNSW Course Outline

VISN5512 Sensory Processes and Movement - 2024

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General Course Information

Course Code : VISN5512
Year : 2024
Term : Term 1
Teaching Period : T1
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 : Postgraduate
Units of Credit : 6

Useful Links

Handbook Class Timetable

Course Details & Outcomes

Course Description

This course provides students with an understanding of the brain, the sensory and motor systems and their integration in behavioural interactions with the environment. This course will cover topics such as the anatomy and organisation of the brain, the sensory systems such as

vision, hearing and touch, motor processes such as body awareness, proprioception, and kinesthetics. This course will be delivered online and will be comprised of series of recorded lectures, tutorials and practicals. Key concepts will be reinforced through reading and online multimedia exercises.

Course Aims

The course aims to develop knowledge about the brain and its sensory system, and how sensory information is utilised for movement and functional behaviour. This knowledge will be taught in the context of how vision loss and blindness affects sensory guided behaviour.

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.

Course Learning Outcomes

Course Learning Outcomes
CLO1 : Identify and explain anatomical and functional aspects of vision, hearing and motor control and its application to Orientation and Mobility
CLO2 : Evaluate the implications of common health conditions on the integration of sensory information
CLO3 : Recognise and articulate the processes of spatial cognition and their functional implications to Orientation and Mobility
CLO4 : Explain and judge the efficacy of clinical and practical methods that assess sensory and motor deficits

Course Learning Outcomes	Assessment Item
CLO1 : Identify and explain anatomical and functional aspects of vision, hearing and motor control and its application to Orientation and Mobility	• Tutorial Presentation • Final Exam • Written Assignment
CLO2 : Evaluate the implications of common health conditions on the integration of sensory information	• Tutorial Presentation • Final Exam • Written Assignment
CLO3 : Recognise and articulate the processes of spatial cognition and their functional implications to Orientation and Mobility	• Final Exam • Written Assignment
CLO4 : Explain and judge the efficacy of clinical and practical methods that assess sensory and motor deficits	• Tutorial Presentation • Final Exam • Written Assignment

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.

Other Professional Outcomes

This course provides students with an understanding of the brain, the sensory and motor systems and their integration in behavioural interactions with the environment. This course will cover topics such as the anatomy and organisation of the brain, the sensory systems such as vision, hearing and touch, motor processes such as body awareness, proprioception, and kinesthetics. This course will be delivered online and will be comprised of series of recorded lectures, tutorials and practicals. Key concepts will be reinforced through reading and online multimedia exercises.

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

1. Identify and explain anatomical and functional aspects of vision, hearing and motor control and its application to Orientation and Mobility
2. Evaluate the implications of common health conditions on the integration of sensory information
3. Recognize and articulate the processes of spatial cognition and their functional implications to Orientation and Mobility
4. Explain and judge the efficacy of clinical and practical methods that assess sensory and motor deficits

Assessments

Assessment Structure

Assessment Item	Weight	Relevant Dates
Tutorial Presentation Assessment Format: Individual	15%	Due Date: 04/03/2024 09:00 AM
Final Exam Assessment Format: Individual	50%	Due Date: TBA
Written Assignment Assessment Format: Individual	35%	Due Date: 05/04/2024 09:00 AM Post Date: 19/04/2024 09:00 AM

Assessment Details

Tutorial Presentation

Assessment Overview

You will be assigned a research topic at the beginning of term and you will be required to prepare a presentation and lead a group discussion on an assigned topic related to sensory processes and movement. Here topics might be research articles or an evaluation of past and current

approaches to rehabilitation and orientation and mobility. You will give one presentation during the term with two different students scheduled to present your topics each week to the tutorial group.

This assignment will be structured (30 minutes presentation, 20 minutes Q and A) and follow a rubric of required work which will be assessed by the coordinator.

Course Learning Outcomes

- CLO1 : Identify and explain anatomical and functional aspects of vision, hearing and motor control and its application to Orientation and Mobility
- CLO2 : Evaluate the implications of common health conditions on the integration of sensory information
- CLO4 : Explain and judge the efficacy of clinical and practical methods that assess sensory and motor deficits

Detailed Assessment Description

For students enrolled in the Orientation and Mobility Graduate Diploma

O&M Portfolio- accessible document (Making Simulators) - 15 %

For students enrolled in another postgraduate program

Research Presentation - 15%

Detailed information about this assessment will be provided on the course Moodle page.

Assessment Length

30 mins

Submission notes

Please submit your work online through a Moodle link. This tasks does not have a short extension option.

Assessment information

Please apply for special consideration if you are unable to perform this task by the due date.

It is prohibited to use any software or service to search for or generate information or answers. If its use is detected, it will be regarded as serious academic misconduct and subject to the standard penalties, which may include 00FL, suspension and exclusion.

Assignment submission Turnitin type

This is not a Turnitin assignment

Final Exam

Assessment Overview

A final scheduled exam to assess the level of understanding of all course content. The format will be short answer, multiple choice and problem solving questions which will assess the student's understanding and ability to clearly explain topics presented in the course. Feedback will be provided as the final course mark.

Course Learning Outcomes

- CLO1 : Identify and explain anatomical and functional aspects of vision, hearing and motor control and its application to Orientation and Mobility
- CLO2 : Evaluate the implications of common health conditions on the integration of sensory information
- CLO3 : Recognise and articulate the processes of spatial cognition and their functional implications to Orientation and Mobility
- CLO4 : Explain and judge the efficacy of clinical and practical methods that assess sensory and motor deficits

Detailed Assessment Description

For students enrolled in the Orientation and Mobility Graduate Diploma - 50%

Assessing course knowledge: Content knowledge (open book quiz) - 20%

First Intensive Marks - 30%

For students enrolled in another postgraduate program

Assessing course knowledge: Content knowledge (open book quiz) -20 %

Research Project - 30 %

Detailed information about this assessment will be provided on the course Moodle page.

Assessment Length

2 hours

Submission notes

This will be an online Inspera exam conducted during the examination period. This task does not

have a short extension option.

Assessment information

Please apply for special consideration if you are unable to sit the exam on the date of the test.

It is prohibited to use any software or service to search for or generate information or answers. If its use is detected, it will be regarded as serious academic misconduct and subject to the standard penalties, which may include 00FL, suspension and exclusion.

Assignment submission Turnitin type

Not Applicable

Written Assignment

Assessment Overview

This assignment will be in the form of a 2500 word critical review of current literature on an assigned topic on the impact of vision loss on sensory related processes and in particular movement behaviour. This assessment will therefore review and foster understanding of the sensory system, neural processes and how sensory information is used for behaviour, and how behaviour changes with deficits in sensory and motor processes. You will be required to submit a precis of your literature review by Week 3, with feedback provided by the course convenor prior to the census date. The final review is due in Week 10 and feedback will be provided within 2 weeks of submission.

Course Learning Outcomes

- CLO1 : Identify and explain anatomical and functional aspects of vision, hearing and motor control and its application to Orientation and Mobility
- CLO2 : Evaluate the implications of common health conditions on the integration of sensory information
- CLO3 : Recognise and articulate the processes of spatial cognition and their functional implications to Orientation and Mobility
- CLO4 : Explain and judge the efficacy of clinical and practical methods that assess sensory and motor deficits

Detailed Assessment Description

Detailed information about this assessment will be provided on the course Moodle page.

Assessment Length

2500 words

Submission notes

Please submit your essay online using a Turnitin link on the Moodle page. This task does not have a short extension option.

Assessment information

Please apply for special consideration if you are unable to perform this task by the due date.

It is prohibited to use any software or service to search for or generate information or answers. If its use is detected, it will be regarded as serious academic misconduct and subject to the standard penalties, which may include 00FL, suspension and exclusion.

Assignment submission Turnitin type

This assignment is submitted through Turnitin and students can see Turnitin similarity reports.

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 : 12 February - 18 February	Topic	Course Introduction • Course overview • Course rules, essential docs • Essay Review
Week 2 : 19 February - 25 February	Intensive	Introduction to O & M techniques 1 First Intensive- Face to face compulsory component* Review Videos to have a better understanding at the practicals
Week 3 : 26 February - 3 March	Intensive	Introduction to O & M techniques II First Intensive- Face to face compulsory component* Review Videos to have a better understanding at the practicals
Week 4 : 4 March - 10 March	Topic	Lecture Block 1: The brain 1.1. Brain anatomy and review of key structures 1.2. Nerves and neuronal functioning
	Tutorial	Weeks 4: Making Low Vision Simulators and accessible document
Week 5 : 11 March - 17 March	Topic	Lecture Block 1: The brain 1.3 Neural systems governing function and behaviour
	Topic	Week 5 Tutorial: Small class learning - Visual simulators experience and report back
Week 6 : 18 March - 24 March	Topic	Lecture Block 2: Sensory processing 2.1. Sensory processes 1: Vision 2.2. Sensory processes 2: Beyond vision (Taste and Smell)
	Tutorial	Week 6 tutorial: a review of the brain
Week 7 : 25 March - 31 March	Topic	Lecture Block 2: Sensory processing 2.3. Sensory processes 3: Sensing gravity and movements (touch, proprioception and the vestibular systems) 2.4 Sensory processes 4: Sound and Spatial Awareness (Hearing)
	Tutorial	Week 7 tutorial: Blindfold simulations task
Week 8 : 1 April - 7 April	Topic	Lecture Block 2: Sensory processing 2.4 Sensory processes 4: Sound and Spatial Awareness (Hearing)
	Tutorial	Week 8 tutorial/Exercise: Trying to navigate by sound without vision
Week 9 : 8 April - 14 April	Topic	Lecture Block 3: Human Movement 3.1 Human movement: Ego motion and navigation
	Tutorial	Week 9 tutorial: Blindfold Simulations task review
Week 10 : 15 April - 21 April	Topic	Lecture Block 3: Human Movement 3.2 sensory integration and cognition in movement
	Tutorial	Week 10 Presentations and course review

Attendance Requirements

Students are expected to attend all scheduled clinic, 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 fraudulent medical certificates.

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 groups, including practicals that involve cycloplegia or dilation, is 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.

Contact the Laboratory Supervisor Dale Larden d.larden@unsw.edu.au if you are running late so your partner can be allocated to alternate work.

Course Resources

Recommended Resources

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

Additional Costs

Some SOVS courses have additional costs. Please check the course Moodle page for information about additional costs for this course.

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	Sieu Khuu				Email: By appointment	Yes	Yes
Demonstrator	Matthew Walker				Email: By appointment	No	No
Lecturer	Juno Kim				Email: By appointment	No	No

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 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

Short extensions and special consideration

Short extension

Commencing in Term 1, 2024, UNSW has introduced 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 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 short term events beyond your control affect your performance in a specific assessment task you may formally apply for Special Consideration through myUNSW.

UNSW has a **Fit to Sit rule**, which means that by sitting an examination on the scheduled 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 Sean Kennedy (sean.kennedy@unsw.edu.au).