



# PSYN8855

## Neuroanatomy for Neuropsychologists

Session 1, In person-scheduled-weekday, North Ryde 2022

*School of Psychological Sciences*

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#### **Disclaimer**

Macquarie University has taken all reasonable measures to ensure the information in this publication is accurate and up-to-date. However, the information may change or become out-dated as a result of change in University policies, procedures or rules. The University reserves the right to make changes to any information in this publication without notice. Users of this publication are advised to check the website version of this publication [or the relevant faculty or department] before acting on any information in this publication.

## General Information

Unit convenor and teaching staff

Heather Francis

[heather.francis@mq.edu.au](mailto:heather.francis@mq.edu.au)

Credit points

10

Prerequisites

Admission to MClinNeuro

Corequisites

Co-badged status

Unit description

In this unit students explore the human brain, and examine the neuroanatomical and behavioural consequences of brain damage. The unit adopts the standard correlative neuroanatomy approach, discussing development of the nervous system and the anatomy of the mature nervous system (the brain stem and associated structures, diencephalon, and telencephalon; blood supply; white matter pathways; ventricles; and meninges). By the end of the unit students are expected to identify, describe the role of structures of the brain and understand the implications of damage to structures of the brain for neuropsychological practice.

## Important Academic Dates

Information about important academic dates including deadlines for withdrawing from units are available at <https://www.mq.edu.au/study/calendar-of-dates>

## Learning Outcomes

On successful completion of this unit, you will be able to:

**ULO1:** Describe the classification of the nervous system and the history of this classification model.

**ULO2:** Describe the meaning of key terms used in neuroanatomy and neuropsychology.

**ULO3:** Conceptualise the relationship between different components of the same system (e.g., the pyramidal and extra-pyramidal components of the motor system).

**ULO4:** Identify brain structures (including cortical and subcortical structures and blood vessels) and explain what is known about their role in producing behaviour.

**ULO5:** Explain the anatomical basis of the disorders commonly seen in clinical practice

and uncommon disorders.

**ULO6:** Understand the implications of brain damage for neuropsychological practice.

## General Assessment Information

### Final Examination

Assessment Type <sup>1</sup>: Examination Indicative Time on Task <sup>2</sup>: 38 hours Due: **30/05/2022** Weighting: **40%**

In this one hour exam students will be required to label photographs of brain structures and answer short answer questions.

The final exam is currently scheduled to occur on Macquarie University campus. Students are expected to make themselves available for the final exam, at the date and time set by the University, in line with the Assessment Policy and Procedure.

On successful completion you will be able to:

- Describe the classification of the nervous system and the history of this classification model.
- Describe the meaning of key terms used in neuroanatomy and neuropsychology.
- Conceptualise the relationship between different components of the same system (e.g., the pyramidal and extra-pyramidal components of the motor system).
- Identify brain structures (including cortical and subcortical structures and blood vessels) and explain what is known about their role in producing behaviour.
- Explain the anatomical basis of the disorders commonly seen in clinical practice and uncommon disorders.

### Multiple choice in class test

Assessment Type <sup>1</sup>: Quiz/Test Indicative Time on Task <sup>2</sup>: 20 hours Due: **04/04/2022** Weighting: **40%**

Students will complete forty multiple choice questions within one hour.

The multiple choice in class test is currently scheduled to occur on Macquarie University campus. Students are expected to make themselves available for the test, at the date and time scheduled, in line with the Assessment Policy and Procedure.

On successful completion you will be able to:

- Describe the classification of the nervous system and the history of this classification model.
- Describe the meaning of key terms used in neuroanatomy and neuropsychology.
- Identify brain structures (including cortical and subcortical structures and blood vessels) and explain what is known about their role in producing behaviour.

- Explain the anatomical basis of the disorders commonly seen in clinical practice and uncommon disorders.

## Group Critique of a case study

Assessment Type <sup>1</sup>: Presentation Indicative Time on Task <sup>2</sup>: 20 hours Due: **Weeks 2 - 10** Weighting: **20%**

In small groups (3-4), students will present and critique a recently published single case in an interactive manner, for twenty minutes, followed by ten minutes for questions from the cohort.

On successful completion you will be able to:

- Identify brain structures (including cortical and subcortical structures and blood vessels) and explain what is known about their role in producing behaviour.
- Explain the anatomical basis of the disorders commonly seen in clinical practice and uncommon disorders.
- Understand the implications of brain damage for neuropsychological practice.

<sup>1</sup> If you need help with your assignment, please contact:

- the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
- the [Learning Skills Unit](#) for academic skills support.

<sup>2</sup> Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation

## Assessment Tasks

Name	Weighting	Hurdle	Due
<a href="#">Multiple choice in class test</a>	40%	No	04/04/2022
<a href="#">Group Critique of a case study</a>	20%	No	Weeks 2-10
<a href="#">Final Examination</a>	40%	No	30/05/2022

## Multiple choice in class test

Assessment Type <sup>1</sup>: Quiz/Test

Indicative Time on Task <sup>2</sup>: 38 hours

Due: **04/04/2022**

Weighting: **40%**

Students will complete forty multiple choice questions within one hour

On successful completion you will be able to:

- Describe the classification of the nervous system and the history of this classification model.
- Describe the meaning of key terms used in neuroanatomy and neuropsychology.
- Identify brain structures (including cortical and subcortical structures and blood vessels) and explain what is known about their role in producing behaviour.
- Explain the anatomical basis of the disorders commonly seen in clinical practice and uncommon disorders.

## Group Critique of a case study

Assessment Type <sup>1</sup>: Presentation

Indicative Time on Task <sup>2</sup>: 20 hours

Due: **Weeks 2-10**

Weighting: **20%**

As a group exercise of 4 students will present and critique a recently published single case in an interactive manner, for twenty minutes, followed by ten minutes for questions from the cohort.

On successful completion you will be able to:

- Identify brain structures (including cortical and subcortical structures and blood vessels) and explain what is known about their role in producing behaviour.
- Explain the anatomical basis of the disorders commonly seen in clinical practice and uncommon disorders.
- Understand the implications of brain damage for neuropsychological practice.

## Final Examination

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Indicative Time on Task <sup>2</sup>: 38 hours

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- Describe the classification of the nervous system and the history of this classification model.
- Describe the meaning of key terms used in neuroanatomy and neuropsychology.
- Conceptualise the relationship between different components of the same system (e.g., the pyramidal and extra-pyramidal components of the motor system).
- Identify brain structures (including cortical and subcortical structures and blood vessels) and explain what is known about their role in producing behaviour.
- Explain the anatomical basis of the disorders commonly seen in clinical practice and uncommon disorders.

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<sup>1</sup> If you need help with your assignment, please contact:

- the academic teaching staff in your unit for guidance in understanding or completing this type of assessment
- the [Writing Centre](#) for academic skills support.

<sup>2</sup> Indicative time-on-task is an estimate of the time required for completion of the assessment task and is subject to individual variation

## Delivery and Resources

Lectures and practicals will be held from 1pm-4pm on Mondays. Face-to-face lectures and the lab practical are an essential part of PSYN8855. All students are therefore required to come to campus to participate in these sessions and complete the associated in-class assessment tasks. If you are unable to attend a lecture or the lab session in person due to unavoidable reasons (quarantine, illness, etc.), you should apply for Special Consideration through [AskMQ](#). Reasonable adjustments will be made for students with approved special consideration.

### Lectures

Lectures will be held on the dates in the unit schedule. Case presentations will be held during the class (except for the first lecture).

### Practical content

A practical neuroanatomy session will be held on 16th May.

Practical at ASAM on 16th May: The lab is a secure area. To allow us to enter as a group please meet at 12:45 pm at the latest at the ASAM entrance [building F10A, opposite the Macquarie University hospital, the building has a large red awning].

Worksheets will be provided. It will be helpful to bring something like a clipboard as there are no desks. There are lockers for personal possessions as they cannot be taken into the lab area.

Bring a lab coat if you have one. Disposable gowns and gloves will be provided.

Please wear fully enclosed shoes which cover the dorsal part of the foot (no ballet flats, flip-flops/thongs) and tie long hair back. No photographs or other recording devices are allowed. Follow the instructions of ASAM staff if you are directed in matters of lab safety, protocol or other matters.

No eating or drinking (including chewing gum) is permitted in the lab.

**Respect for the dead is expected at all times.**

## Unit Schedule

**Schedule:**

Week	Date	Content	Location	Who
1	21st February	Lecture	25 Wallys Walk - A114 Tutorial Rm	Dr Heather Francis
2	28th February	Lecture	25 Wallys Walk - A114 Tutorial Rm	Dr Heather Francis
3	7th March	Lecture	25 Wallys Walk - A114 Tutorial Rm	Dr Heather Francis
4	14th March	Lecture	25 Wallys Walk - A114 Tutorial Rm	Dr Heather Francis
5	21st March	Lecture	25 Wallys Walk - A114 Tutorial Rm	Dr Heather Francis
6	28th March	Lecture	25 Wallys Walk - A114 Tutorial Rm	Dr Heather Francis
7	4th April	Exam	25 Wallys Walk - A114 Tutorial Rm	Dr Heather Francis
8	25th April	Anzac day	No class	Dr Heather Francis
9	2nd May	Lecture	25 Wallys Walk - A114 Tutorial Rm	Dr Heather Francis
10	9th May	Lecture	25 Wallys Walk - A114 Tutorial Rm	Dr Heather Francis
11	16th May	Practical	ASAM	A/Prof Ian Johnson
12	23 <sup>rd</sup> May	Lecture	25 Wallys Walk - A114 Tutorial Rm	Dr Heather Francis
13	30th May	Exam	25 Wallys Walk - A114 Tutorial Rm	Dr Heather Francis

## Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central \(https://policies.mq.edu.au\)](https://policies.mq.edu.au). Students should be aware of the following policies in particular with regard to Learning and Teaching:

- [Academic Appeals Policy](#)
- [Academic Integrity Policy](#)
- [Academic Progression Policy](#)
- [Assessment Policy](#)
- [Fitness to Practice Procedure](#)
- [Assessment Procedure](#)
- [Complaints Resolution Procedure for Students and Members of the Public](#)
- [Special Consideration Policy](#)

Students seeking more policy resources can visit [Student Policies \(https://students.mq.edu.au/support/study/policies\)](https://students.mq.edu.au/support/study/policies). It is your one-stop-shop for the key policies you need to know about throughout your undergraduate student journey.

To find other policies relating to Teaching and Learning, visit [Policy Central \(https://policies.mq.edu.au\)](https://policies.mq.edu.au) and use the [search tool](#).

## Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/admin/other-resources/student-conduct>

## Results

Results published on platform other than [eStudent](#), (eg. iLearn, Coursera etc.) or released directly by your Unit Convenor, are not confirmed as they are subject to final approval by the University. Once approved, final results will be sent to your student email address and will be made available in [eStudent](#). For more information visit [ask.mq.edu.au](https://ask.mq.edu.au) or if you are a Global MBA student contact [globalmba.support@mq.edu.au](mailto:globalmba.support@mq.edu.au)

## Academic Integrity

At Macquarie, we believe [academic integrity](#) – honesty, respect, trust, responsibility, fairness and courage – is at the core of learning, teaching and research. We recognise that meeting the expectations required to complete your assessments can be challenging. So, we offer you a range of resources and services to help you reach your potential, including free [online writing and maths support](#), [academic skills development](#) and [wellbeing consultations](#).

Macquarie University follow standards-based assessment of student performance. All individual assessment tasks are subject to moderation, consistent with the Assessment Policy and Procedure. A student's final mark for this unit, and associated grade, must reflect their attainment of the unit learning outcomes, and isn't necessarily a simple summation of their individual



assessment items.

## Student Support

Macquarie University provides a range of support services for students. For details, visit <http://students.mq.edu.au/support/>

### The Writing Centre

[The Writing Centre](#) provides resources to develop your English language proficiency, academic writing, and communication skills.

- [Workshops](#)
- [Chat with a WriteWISE peer writing leader](#)
- [Access StudyWISE](#)
- [Upload an assignment to Studiosity](#)
- [Complete the Academic Integrity Module](#)

The Library provides online and face to face support to help you find and use relevant information resources.

- [Subject and Research Guides](#)
- [Ask a Librarian](#)

## Student Services and Support

Macquarie University offers a range of [Student Support Services](#) including:

- [IT Support](#)
- [Accessibility and disability support](#) with study
- Mental health [support](#)
- [Safety support](#) to respond to bullying, harassment, sexual harassment and sexual assault
- [Social support including information about finances, tenancy and legal issues](#)

## Student Enquiries

Got a question? Ask us via [AskMQ](#), or contact [Service Connect](#).

## IT Help

For help with University computer systems and technology, visit [http://www.mq.edu.au/about\\_us/offices\\_and\\_units/information\\_technology/help/](http://www.mq.edu.au/about_us/offices_and_units/information_technology/help/).

When using the University's IT, you must adhere to the [Acceptable Use of IT Resources Policy](#). The policy applies to all who connect to the MQ network including students.

## Changes since First Published

Date	Description
04/02/2022	Policies and procedures related to on campus attendance have been updated.