



# CHIR8511

## Clinical Neurology

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

*Department of Chiropractic*

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## General Information

Unit convenor and teaching staff

Senior Lecturer

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Contact via email

75 Talavera road, room 2240

This is best arranged via email

Credit points

10

Prerequisites

Admission to MChiroprac and (CHIR3106 or CHIR316) or ((CHIR6110 or CHIR602) and (CHIR6111 or CHIR603) and (CHIR6302 or CHIR604) and (CHIR6303 or CHIR605) and (CHIR6410 or CHIR606) and (CHIR6510 or CHIR608))

Corequisites

Co-badged status

Unit description

This unit covers a wide spectrum of clinically relevant neurological conditions for chiropractic students. Students will develop competency in neurological examination and in formulating a differential diagnosis based on the patient's clinical presentation. The knowledge and understanding constructed in this way also enables students to discuss and analyse pertinent case studies with the necessary depth required. The knowledge and skills acquired during this unit are fundamental for diagnostic competence in chiropractic practice. A variety of teaching methods are employed, from lectures based on current evidence that are also made available online, to tutorials that are underpinned by a social constructivist approach to building knowledge, using the discussion of case studies to develop diagnostic skill.

## 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:** Perform the clinical neuromusculoskeletal history taking and examination

competently

**ULO2:** Draw on acquired theoretical knowledge in order to tailor the physical examination to the clinical presentation of the patient, and from this develop a differential diagnosis and clinical management plan.

**ULO3:** Demonstrate well developed clinical reasoning skills and the ability to diagnose conditions that are suitable for chiropractic care, and identify conditions that are contraindicated for chiropractic care including conditions of non-musculoskeletal origin.

**ULO4:** Acquire knowledge to evaluate conditions, research these cases further using appropriate reference material and communicate findings

**ULO5:** Develop a respect and empathy for patients, and an ethical and professional attitude to health care. In this regard, you should develop a commitment to remain informed and up-to-date in your profession

## General Assessment Information

### *Assessment Tasks Description*

1. **Weekly Quizzes: Eleven (11) quizzes:** 10 minute quizzes to be completed online in WEEKS 2 - 12 that will test **lecture** material of the previous week. See the schedule above for details on content that is covered by looking at the previous week's lecture content. The format will be multiple choice questions or fill in the missing word/s. Each quiz will open on Monday at 8am and close on Sunday at 11pm of that week. The first quiz will be posted on Monday of week 2. There will be absolutely no opportunity to submit a quiz after the closing time as answers are released at that point. If you have technical difficulties, email your answers to your convenor and they will be manually marked. If you email these after the closing time, they will not be marked. The quizzes will have a time limit of 10 minutes, and there will be only one submission per student. The resultant mark will be an **AVERAGE of the 11 quiz marks (please note, NOT best x of 11)**.
2. **OSCE:** These will assess your competency in performing the neurological examination. Details will be given on iLearn and in the tutorials nearer to the date
3. **Final examination:** This will cover the content for the entire semester. It tests your knowledge of the theory, and the ability to connect that knowledge to real life situations (e.g., case studies, clinical presentations). It will consist of a 2 hour written exam with multiple choice questions, short answer questions and case studies.

### *Examinations*

The Semester 1 University Examination period is from: 6 - 24 June, 2022

You are expected to present yourself for examination at the time and place designated in the University examination timetable. The timetable will be available in draft form approximately eight weeks before the commencement of the examinations and in final form approximately four weeks before the commencement of the examinations:

<http://www.timetables.mq.edu.au/exam>

The only exception to not sitting an examination at the designated time is because of documented illness or unavoidable disruption. In these circumstances you may wish to consider applying for special consideration. The University's Special Consideration Policy can be found at: <https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policies/special-consideration>. Information can also be found at <https://students.mq.edu.au/study/my-study-program/special-consideration>

Students with a pre-existing disability/health condition or prolonged adverse circumstances may be eligible for ongoing assistance and support. Such support is governed by other policies and may be sought and coordinated through [Campus Wellbeing and Support Services](#).

If a supplementary examination is granted as a result of special consideration, the examination will be scheduled after the conclusion of the official examination period.

If you receive [special consideration](#) for the final exam, a supplementary exam will be scheduled in the interval between the regular exam period and the start of the next session. By making a special consideration application for the final exam you are declaring yourself available for a resit during the supplementary examination period and will not be eligible for a second special consideration approval based on pre-existing commitments. Please ensure you are familiar with the [policy](#) prior to submitting an application. You can check the supplementary exam information page on FSE101 in iLearn ([bit.ly/FSESupp](http://bit.ly/FSESupp)) for dates, and approved applicants will receive an individual notification one week prior to the exam with the exact date and time of their supplementary examination.

**NOTE:** Supplementary exams may be in a different format to the exam set in the normal examination period.

You are advised that it is Macquarie University policy not to set early examinations for individuals

or groups of students. You are expected to ensure that you are available until the end of the teaching semester that is the final day of the official examination period.

### Returning Assessment Tasks

1. Quizzes: automatic feedback is given when the quiz is closed
2. OSCEs: Students will receive feedback during the examination, and in the term I OSCE, further feedback will be given in the tutorial.
3. Examination: Papers will not be returned. Marks will be incorporated into the final unit grade.

### Extensions and penalties

Extensions to assignments are at the discretion of the unit convenor. It is your responsibility to prove to the convenor that there has been unavoidable disruption. Marks will be deducted for late submissions in the absence of an approved extension.

## Assessment Tasks

Name	Weighting	Hurdle	Due
<u>weekly quizzes</u>	20%	No	Weekly from week 2 - 12
<u>Final written examination</u>	40%	No	In formal examination period
<u>OSCE I</u>	20%	No	Week 7
<u>OSCE II</u>	20%	No	Week 13

### weekly quizzes

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

Indicative Time on Task <sup>2</sup>: 10 hours

Due: **Weekly from week 2 - 12**

Weighting: **20%**

students complete online weekly quizzes based on the previous week's lectures and case studies

On successful completion you will be able to:

- Perform the clinical neuromusculoskeletal history taking and examination competently
- Demonstrate well developed clinical reasoning skills and the ability to diagnose conditions that are suitable for chiropractic care, and identify conditions that are

contraindicated for chiropractic care including conditions of non-musculoskeletal origin.

- Acquire knowledge to evaluate conditions, research these cases further using appropriate reference material and communicate findings

## Final written examination

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

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

Due: **In formal examination period**

Weighting: **40%**

The final exam tests your knowledge of the theory, and the ability to connect that knowledge to real life situations (e.g. case studies, clinical presentations). It will consist of a 2 hour written exam with multiple choice questions and case studies.

On successful completion you will be able to:

- Draw on acquired theoretical knowledge in order to tailor the physical examination to the clinical presentation of the patient, and from this develop a differential diagnosis and clinical management plan.
- Demonstrate well developed clinical reasoning skills and the ability to diagnose conditions that are suitable for chiropractic care, and identify conditions that are contraindicated for chiropractic care including conditions of non-musculoskeletal origin.
- Acquire knowledge to evaluate conditions, research these cases further using appropriate reference material and communicate findings

## OSCE I

Assessment Type <sup>1</sup>: Clinical performance evaluation

Indicative Time on Task <sup>2</sup>: 10 hours

Due: **Week 7**

Weighting: **20%**

The OSCE will assess competency in performing the neurological examination.

On successful completion you will be able to:

- Perform the clinical neuromusculoskeletal history taking and examination competently
- Draw on acquired theoretical knowledge in order to tailor the physical examination to the clinical presentation of the patient, and from this develop a differential diagnosis and clinical management plan.
- Demonstrate well developed clinical reasoning skills and the ability to diagnose conditions that are suitable for chiropractic care, and identify conditions that are contraindicated for chiropractic care including conditions of non-musculoskeletal origin.

- Acquire knowledge to evaluate conditions, research these cases further using appropriate reference material and communicate findings
- Develop a respect and empathy for patients, and an ethical and professional attitude to health care. In this regard, you should develop a commitment to remain informed and up-to-date in your profession

## OSCE II

Assessment Type <sup>1</sup>: Clinical performance evaluation

Indicative Time on Task <sup>2</sup>: 10 hours

Due: **Week 13**

Weighting: **20%**

The OSCE will assess competency in performing the neurological examination and skill in differential diagnosis

On successful completion you will be able to:

- Perform the clinical neuromusculoskeletal history taking and examination competently
- Draw on acquired theoretical knowledge in order to tailor the physical examination to the clinical presentation of the patient, and from this develop a differential diagnosis and clinical management plan.
- Demonstrate well developed clinical reasoning skills and the ability to diagnose conditions that are suitable for chiropractic care, and identify conditions that are contraindicated for chiropractic care including conditions of non-musculoskeletal origin.
- Acquire knowledge to evaluate conditions, research these cases further using appropriate reference material and communicate findings
- Develop a respect and empathy for patients, and an ethical and professional attitude to health care. In this regard, you should develop a commitment to remain informed and up-to-date in your profession

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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

### Delivery mode

This unit is characterised by a moderate degree of flexibility. It incorporates a variety of learning tools and media. It will comprise:

	ACTIVITY	Total
<b>Lectures</b>	2 × 2 hour lectures per week online	4 hours per week, weeks 1-12
<b>Tutorials</b>	2 × 2 hour tutorial class per week, weeks 2 – 12  Tutorial 1: Wednesday 2-4pm or 4-6pm (11WW 320 North Lab) Tutorial 2: Thursday 9-11am or 11 – 1 (11WW 330 South Lab)  Note that you must attend one of the Wednesday, <b>and</b> one of the Thursday tutorials per week. This means you attend a total of two tutorials a week.	4 hours per week, weeks 2-12
<b>Other</b>	Revision, self-instructional learning, preparation for tutorials and readings from the manual/text	2.5 hours per week

Please note that the venues are subject to change until just before the start of the semester. So, for further details on class time and locations for this unit follow the link below:

[http://students.mq.edu.au/student\\_admin/timetables](http://students.mq.edu.au/student_admin/timetables)

### Unit Web Page

You can log in to iLearn System via the link listed below:

<https://ilearn.mq.edu.au/login/MQ/>

All lecture materials will be posted on ilearn<sub>1</sub> and there is also a link to ECHO360 for **audio** recordings of the lectures.

### Required and recommended resources

#### Required:



1. CHIR8511 – Clinical Neurology *Tutorial Course Manual* 2022– This has been uploaded to iLearn. Please be sure to either download, print and bind the manual, or have an iPad or laptop to access the manual during the tutorial.

### Recommended:

- Blumenfeld H (2010) *Neuroanatomy through Clinical Cases*. 2<sup>nd</sup> ed. Sinauer Associates Inc, Massachusetts. Distributed by Palgrave Macmillan, Victoria, Australia.
- Souza TA (2005) *Differential diagnosis and management for the chiropractor* 3<sup>rd</sup> ed. Jones & Bartlett Pub, Massachusetts.

### Required Diagnostic Equipment (Neurological Diagnosis Kit):

1. A diagnostic set with otoscope and ophthalmoscope (recommended: Welsh Allen series 97200-BI - ~\$585)
2. A tailor's measuring tape
3. A 128Hz or 256Hz (vibration) **and also** a 512Hz (auditory) tuning fork
4. Neurotips
5. Long stem cotton tips/long cotton swabs
6. Disposable tongue depressors
7. Tomahawk reflex hammer
8. A number of tactile items e.g., key, coin etc
9. A mathematical compass

### A note about textbooks:

Textbooks for this unit can be purchased online from Booktopia <https://www.booktopia.com.au/coop>.

The list of Macquarie University S1 2022 units and texts can be found on the [Booktopia website](#).

## 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](#).

## 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.