



CHIR20001 *Advanced Clinical Neurology and Diagnosis*

Term 1 - 2017

Profile information current as at 06/05/2024 05:53 am

All details in this unit profile for CHIR20001 have been officially approved by CQUniversity and represent a learning partnership between the University and you (our student). The information will not be changed unless absolutely necessary and any change will be clearly indicated by an approved correction included in the profile.

General Information

Overview

The unit builds upon your knowledge and understanding of the human body gained through the Bachelor of Science (Chiropractic). The unit will focus upon the clinical presentation of neurological conditions encountered in chiropractic practice. You will develop an understanding of the physiological processes underlying signs and symptoms at clinical presentation as well as knowledge and skills to interpret these changes through physical examination.

Details

Career Level: *Postgraduate*

Unit Level: *Level 9*

Credit Points: 6

Student Contribution Band: 8

Fraction of Full-Time Student Load: 0.125

Pre-requisites or Co-requisites

Co-requisite CHIR20002 Clinical Practice 2

Important note: Students enrolled in a subsequent unit who failed their pre-requisite unit, should drop the subsequent unit before the census date or within 10 working days of Fail grade notification. Students who do not drop the unit in this timeframe cannot later drop the unit without academic and financial liability. See details in the [Assessment Policy and Procedure \(Higher Education Coursework\)](#).

Offerings For Term 1 - 2017

- Brisbane
- Mackay
- Sydney

Attendance Requirements

All on-campus students are expected to attend scheduled classes – in some units, these classes are identified as a mandatory (pass/fail) component and attendance is compulsory. International students, on a student visa, must maintain a full time study load and meet both attendance and academic progress requirements in each study period (satisfactory attendance for International students is defined as maintaining at least an 80% attendance record).

Website

[This unit has a website, within the Moodle system, which is available two weeks before the start of term. It is important that you visit your Moodle site throughout the term. Please visit Moodle for more information.](#)

Class and Assessment Overview

Recommended Student Time Commitment

Each 6-credit Postgraduate unit at CQUniversity requires an overall time commitment of an average of 12.5 hours of study per week, making a total of 150 hours for the unit.

Class Timetable

[Regional Campuses](#)

Bundaberg, Cairns, Emerald, Gladstone, Mackay, Rockhampton, Townsville

[Metropolitan Campuses](#)

Adelaide, Brisbane, Melbourne, Perth, Sydney

Assessment Overview

1. **In-class Test(s)**

Weighting: 10%

2. **In-class Test(s)**

Weighting: 20%

3. **Practical Assessment**

Weighting: 30%

4. **Examination**

Weighting: 40%

Assessment Grading

This is a graded unit: your overall grade will be calculated from the marks or grades for each assessment task, based on the relative weightings shown in the table above. You must obtain an overall mark for the unit of at least 50%, or an overall grade of 'pass' in order to pass the unit. If any 'pass/fail' tasks are shown in the table above they must also be completed successfully ('pass' grade). You must also meet any minimum mark requirements specified for a particular assessment task, as detailed in the 'assessment task' section (note that in some instances, the minimum mark for a task may be greater than 50%). Consult the [University's Grades and Results Policy](#) for more details of interim results and final grades.

CQUniversity Policies

All University policies are available on the [CQUniversity Policy site](#).

You may wish to view these policies:

- Grades and Results Policy
- Assessment Policy and Procedure (Higher Education Coursework)
- Review of Grade Procedure
- Student Academic Integrity Policy and Procedure
- Monitoring Academic Progress (MAP) Policy and Procedure – Domestic Students
- Monitoring Academic Progress (MAP) Policy and Procedure – International Students
- Student Refund and Credit Balance Policy and Procedure
- Student Feedback – Compliments and Complaints Policy and Procedure
- Information and Communications Technology Acceptable Use Policy and Procedure

This list is not an exhaustive list of all University policies. The full list of University policies are available on the [CQUniversity Policy site](#).

Previous Student Feedback

Feedback, Recommendations and Responses

Every unit is reviewed for enhancement each year. At the most recent review, the following staff and student feedback items were identified and recommendations were made.

Feedback from Students (in class and formal course evaluation forms)

Feedback

More time with lecturer

Recommendation

In 2017 the course will have 8 weeks of lectures (with 4 weeks when students are away on placement) via on-line sessions. This will coincide with weekly tutorials to turn theory into practical.

Action

This was implemented, but as was obviously, the students require some face-to-face contact with the lecturer as well as the local tutors.

Feedback from Students (formal course evaluation forms)

Feedback

Increased use of neurological testing equipment

Recommendation

Neurological testing equipment (reflex hammers; pinwheels etc.) will be introduced much earlier in the Chiropractic program. Year 3, therefore utilisation and skills will increase over the 3 years, rather than just the Masters.

Action

Practical classes were introduced from week one. As well, many of the practical skills in this unit have been introduced into CHIR12007 as the lecturer now also teaches that unit in the 3rd year.

Unit Learning Outcomes

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

1. Relate the physiology, structure and function of the nervous system to clinical practice.
2. Apply a targeted neurological physical examination as it relates to clinical practice.
3. Formulate a differential diagnosis from neurological assessment findings.
4. Describe a plan of management protocol from assessment and diagnostic findings.

Links to CCEA Competency Units:

Learning outcome 1-4:

Professional Interface (3)

Patient Assessment (6)

Diagnostic decision making (7)

Planning of patient care (8)

Alignment of Learning Outcomes, Assessment and Graduate Attributes



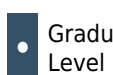
N/A
Level



Introductory
Level



Intermediate
Level



Graduate
Level



Professional
Level



Advanced
Level

Alignment of Assessment Tasks to Learning Outcomes

Assessment Tasks	Learning Outcomes			
	1	2	3	4
1 - In-class Test(s) - 10%	•		•	•

Assessment Tasks	Learning Outcomes			
	1	2	3	4
2 - In-class Test(s) - 20%	•		•	•
3 - Practical Assessment - 30%		•		
4 - Examination - 40%	•		•	•

Alignment of Graduate Attributes to Learning Outcomes

Graduate Attributes	Learning Outcomes			
	1	2	3	4
1 - Knowledge	○	○	○	○
2 - Communication	○	○	○	○
3 - Cognitive, technical and creative skills		○	○	○
4 - Research				
5 - Self-management		○		
6 - Ethical and Professional Responsibility				
7 - Leadership				
8 - Aboriginal and Torres Strait Islander Cultures				

Alignment of Assessment Tasks to Graduate Attributes

Assessment Tasks	Graduate Attributes							
	1	2	3	4	5	6	7	8
1 - In-class Test(s) - 10%	○		○		○			
2 - In-class Test(s) - 20%	○		○		○			
3 - Practical Assessment - 30%	○	○	○					
4 - Examination - 40%	○	○	○					

Textbooks and Resources

Textbooks

CHIR20001

Prescribed

Functional neurology for practitioners of manual medicine

Edition: 2nd edn revised (2011)

Authors: Beck, R

Churchill Livingstone - Elsevier

London , UK

ISBN: 9780702040627

Binding: Paperback

CHIR20001

Prescribed

Neuroanatomy through clinical cases (includes ebook)

Edition: 2nd edn (2010)

Authors: Blumenfeld, H

Sinauer Associates Inc

Sunderland , MA , USA

ISBN: 9780878936137

Binding: Paperback

[View textbooks at the CQUniversity Bookshop](#)

IT Resources

You will need access to the following IT resources:

- CQUniversity Student Email
- Internet
- Unit Website (Moodle)

Referencing Style

All submissions for this unit must use the referencing style: [American Psychological Association 6th Edition \(APA 6th edition\)](#)

For further information, see the Assessment Tasks.

Teaching Contacts

Michael Edgley Unit Coordinator

m.edgley@cqu.edu.au

Schedule

Week 1 - 06 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
1. Neuron Theory & Anatomy 2. Neurotransmitters and their Receptors	Please read the following chapters in Functional Neurology for Practitioners of Manual Medicine: Chapter 1: Fundamental concepts in functional neurology Chapter 2: Early developmental events	Socrative Quizzes: 1. Neuron Theory & Anatomy 2. Neurotransmitters and their Receptors Draw it to know it - Neuroanatomy - General Organisation Chapter & Quiz

Week 2 - 13 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
1. Lower Motor Neuron	Please read the following chapters in Functional Neurology for Practitioners of Manual Medicine: Chapter 3: Biochemistry and physiology of receptor activation Chapter 4: History and examination Chapter 5: Neurology of sensory and receptor activation	Draw it to know it - Neuroanatomy 1. Upper Extremity & Quiz 2. Lower Extremity & Quiz

Week 3 - 20 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
1. Upper Motor Neuron	Please read the following chapters in Functional Neurology for Practitioners of Manual Medicine: Chapter 6: Neuronal activation and movement Chapter 7: The spinal cord and peripheral nerves Chapter 8: The autonomic nervous system	Draw it to know it - Neuroanatomy 1. Sensory Maps & Quiz 2. Spinal Cord & Quiz 3. Spinal Canal & Quiz

Week 4 - 27 Mar 2017

Module/Topic	Chapter	Events and Submissions/Topic
1. Sensory System - Tactile & Proprioception 2. Sensory System - Temperature & Nociception		

Week 5 - 03 Apr 2017

Module/Topic	Chapter	Events and Submissions/Topic
Review of first half of unit		Draw it to know it - Neuroanatomy 1. Brainstem & Quiz 2. Cranial Nerves 3,4,6,12 & Quiz 3. Cranial Nerves 5,7,9,10 & Quiz In-class Test(s) Due: Week 5 Friday (7 Apr 2017) 5:00 pm AEST

Vacation Week - 10 Apr 2017

Module/Topic	Chapter	Events and Submissions/Topic
Review practical patient examination		

Week 6 - 17 Apr 2017

Module/Topic	Chapter	Events and Submissions/Topic
1. Sensory System - Vestibular 2. Sensory System - Cerebellum	Please read the following chapters in Functional Neurology for Practitioners of Manual Medicine: Chapter 14: The Cerebellum & Vestibular	Draw it to know it - Neuroanatomy 1. Vestibular and Auditory Systems & Quiz 2. Cerebellum & Quiz

Week 7 - 24 Apr 2017

Module/Topic	Chapter	Events and Submissions/Topic
1. Pain	Please read the following chapters in Functional Neurology for Practitioners of Manual Medicine: Chapter 17: Headaches	Draw it to know it - Neuroanatomy 1. Diencephalon & Quiz

Week 8 - 01 May 2017

Module/Topic	Chapter	Events and Submissions/Topic
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1. Basal Ganglia & Movement Disorders	Please read the following chapters in Functional Neurology for Practitioners of Manual Medicine: Chapter 11: The Basal Ganglia	Draw it to know it - Neuroanatomy 1. Basal Ganglia & Quiz
Week 9 - 08 May 2017		
Module/Topic	Chapter	Events and Submissions/Topic
1. Cerebral Vasculature & Stroke	Please read the following chapters in Functional Neurology for Practitioners of Manual Medicine: Chapter 9: The Cortex Chapter 10: The Thalamus & Hypothalamus	Draw it to know it - Neuroanatomy 1. Cerebral Hemispheres & Quiz 2. Cerebral White Matter & Quiz
Week 10 - 15 May 2017		
Module/Topic	Chapter	Events and Submissions/Topic
1. Brain Stem Anatomy Vasculature and Stroke	Please read the following chapters in Functional Neurology for Practitioners of Manual Medicine: Chapter 13: The Brainstem & Reticular Formation	Draw it to know it - Neuroanatomy 1. Arterial Supply
Week 11 - 22 May 2017		
Module/Topic	Chapter	Events and Submissions/Topic
1. Advanced Case Management & Rehabilitation	Please read the following chapters in Functional Neurology for Practitioners of Manual Medicine: Chapter 19: Approaches to Patient Management Chapter 20: Approaches to Treatment	Draw it to know it - Neuroanatomy 1. Eye Movements
Week 12 - 29 May 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Exam and Practical preparations		Written Assessment (OSCE) Due: Week 12 Friday (2 June 2017) 3:00 pm AEST Practical Exam Due: Week 12 Friday (2 June 2017) 3:00 pm AEST
Review/Exam Week - 05 Jun 2017		
Module/Topic	Chapter	Events and Submissions/Topic
Exam Week - 12 Jun 2017		
Module/Topic	Chapter	Events and Submissions/Topic

Assessment Tasks

1 In-class Test(s)

Assessment Type

In-class Test(s)

Task Description

10 Objective Structured Clinical Examinations (OSCE) stations lasting 2 minutes for each station. Total exam time is 20 minutes.

Topics covered in this exam will consist of:

- Anatomy & Physiology
- Pathology
- Orthopaedic & Neurological tests
- Patient management

Assessment Due Date

Week 5 Friday (7 Apr 2017) 5:00 pm AEST

Return Date to Students

Week 6 Friday (21 Apr 2017)

Weighting

10%

Minimum mark or grade

50%

Assessment Criteria

No Assessment Criteria

Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)

Submission

Offline

Learning Outcomes Assessed

- Relate the physiology, structure and function of the nervous system to clinical practice.
- Formulate a differential diagnosis from neurological assessment findings.
- Describe a plan of management protocol from assessment and diagnostic findings.

Graduate Attributes

- Knowledge
- Cognitive, technical and creative skills
- Self-management

2 Written Assessment (OSCE)

Assessment Type

In-class Test(s)

Task Description

20 Objective Structured Clinical Examinations (OSCE) stations lasting 2 minutes for each station. Total exam time is 40 minutes.

Topics covered in this exam will consist of:

- Anatomy & Physiology
- Pathology
- Orthopaedic & Neurological tests
- Patient management

Assessment Due Date

Week 12 Friday (2 June 2017) 3:00 pm AEST

Return Date to Students

Exam Week Friday (16 June 2017)

Weighting

20%

Minimum mark or grade

60%

Assessment Criteria

All four learning outcomes will be examined in this exam:

1. Discuss the physiology, structure and function of the nervous system and how it relates to clinical practice.
2. Apply a targeted neurological physical examination as it relates to clinical practice.
3. Formulate a differential diagnosis from neurological assessment findings.
4. Describe a plan of management protocol from assessment and diagnostic findings.

Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)

Submission

Offline

Learning Outcomes Assessed

- Relate the physiology, structure and function of the nervous system to clinical practice.
- Formulate a differential diagnosis from neurological assessment findings.
- Describe a plan of management protocol from assessment and diagnostic findings.

Graduate Attributes

- Knowledge
- Cognitive, technical and creative skills
- Self-management

3 Practical Exam

Assessment Type

Practical Assessment

Task Description

The practical exam will consist of 1 case history to read. From this, develop a list of differential diagnosis and your working diagnosis. List the orthopaedic and neurological tests that you would perform to confirm your diagnosis. You will be given 10 minutes to complete this part.

The second part will consist of you performing your list of tests. You will be given 5 minutes to complete this part.

Assessment Due Date

Week 12 Friday (2 June 2017) 3:00 pm AEST

Return Date to Students

Exam Week Friday (16 June 2017)

Weighting

30%

Minimum mark or grade

70%

Assessment Criteria

2-6 differential diagnosis will be required.

The examination needs to be a targeted one with the tests specific for the patient presentation.

Referencing Style

- [American Psychological Association 6th Edition \(APA 6th edition\)](#)

Submission

Offline

Learning Outcomes Assessed

- Apply a targeted neurological physical examination as it relates to clinical practice.

Graduate Attributes

- Knowledge
- Communication
- Cognitive, technical and creative skills

Examination

Outline

Complete an invigilated examination.

Date

During the examination period at a CQUniversity examination centre.

Weighting

40%

Length

180 minutes

Minimum mark or grade

50%

Exam Conditions

Closed Book.

Materials

No calculators permitted

Dictionary - non-electronic, concise, direct translation only (dictionary must not contain any notes or comments).

Academic Integrity Statement

As a CQUniversity student you are expected to act honestly in all aspects of your academic work.

Any assessable work undertaken or submitted for review or assessment must be your own work. Assessable work is any type of work you do to meet the assessment requirements in the unit, including draft work submitted for review and feedback and final work to be assessed.

When you use the ideas, words or data of others in your assessment, you must thoroughly and clearly acknowledge the source of this information by using the correct referencing style for your unit. Using others' work without proper acknowledgement may be considered a form of intellectual dishonesty.

Participating honestly, respectfully, responsibly, and fairly in your university study ensures the CQUniversity qualification you earn will be valued as a true indication of your individual academic achievement and will continue to receive the respect and recognition it deserves.

As a student, you are responsible for reading and following CQUniversity's policies, including the [Student Academic Integrity Policy and Procedure](#). This policy sets out CQUniversity's expectations of you to act with integrity, examples of academic integrity breaches to avoid, the processes used to address alleged breaches of academic integrity, and potential penalties.

What is a breach of academic integrity?

A breach of academic integrity includes but is not limited to plagiarism, self-plagiarism, collusion, cheating, contract cheating, and academic misconduct. The Student Academic Integrity Policy and Procedure defines what these terms mean and gives examples.

Why is academic integrity important?

A breach of academic integrity may result in one or more penalties, including suspension or even expulsion from the University. It can also have negative implications for student visas and future enrolment at CQUniversity or elsewhere. Students who engage in contract cheating also risk being blackmailed by contract cheating services.

Where can I get assistance?

For academic advice and guidance, the [Academic Learning Centre \(ALC\)](#) can support you in becoming confident in completing assessments with integrity and of high standard.

What can you do to act with integrity?

**Be Honest**

If your assessment task is done by someone else, it would be dishonest of you to claim it as your own

**Seek Help**

If you are not sure about how to cite or reference in essays, reports etc, then seek help from your lecturer, the library or the Academic Learning Centre (ALC)

**Produce Original Work**

Originality comes from your ability to read widely, think critically, and apply your gained knowledge to address a question or problem