



# CHIR602

## Chiropractic A

S1 Day 2019

*Dept of Chiropractic*

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## General Information

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17 Wally's Walk - 354

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Credit points

8

Prerequisites

Admission to MChiroprac

Corequisites

Co-badged status

Unit description

This unit introduces the student to the history and science of chiropractic. It includes basic psychomotor skills such as peripheral and spinal motion palpation, muscle assessment, soft tissue techniques as well as lower limb joint mobilisation and manipulation techniques. The unit covers a 'core' group of techniques and aims at proficiency of this core. It also includes an understanding of the basic laws of physics as they apply to the biomechanics of joint movement as well as an introduction to research methodology.

## 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:

The ability to perform peripheral adjustments and/or mobilisations with a basic level of psychomotor skills associated with these procedures i.e. tactile/palpatory skills and hand/body/eye co-ordination of practitioner movements.

The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.

The ability to perform basic static and motion palpation on all peripheral joints in the body.

An understanding of peripheral and spinal joint mechanics.

A thorough knowledge of musculoskeletal anatomy.

An understanding of the history and development of chiropractic theories

## General Assessment Information

There are theory and practical assessments in this unit.

The theory assessments include two anatomy spot test exams, a series of 5 biomechanics online quizzes and an end of semester written examination.

The practical assessments include three chiropractic practical exams (Spot Tests).

## Assessment Tasks

Name	Weighting	Hurdle	Due
<a href="#">Anatomy mid-semester test</a>	5%	No	Week 7
<a href="#">Technique Spot Tests</a>	40%	No	weeks 4,8,13
<a href="#">Anatomy Spot Test</a>	10%	No	Week 13
<a href="#">On-line biomechanics quizzes</a>	10%	No	weeks 4,6,8,10,12
<a href="#">End of semester written examin</a>	35%	No	University examination period

### Anatomy mid-semester test

Due: **Week 7**

Weighting: **5%**

Musculoskeletal anatomy practical/written exam.

On successful completion you will be able to:

- A thorough knowledge of musculoskeletal anatomy.

### Technique Spot Tests

Due: **weeks 4,8,13**

Weighting: **40%**

The Technique spot tests cover the practical elements of the technique material in the unit. Spot Tests 1 & 2 are worth 10% and Spot Test 3 is worth 20%.

On successful completion you will be able to:

- The ability to perform peripheral adjustments and/or mobilisations with a basic level of psychomotor skills associated with these procedures i.e. tactile/palpatory skills and hand/body/eye co-ordination of practitioner movements.
- The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- The ability to perform basic static and motion palpation on all peripheral joints in the body.

### Anatomy Spot Test

Due: **Week 13**

Weighting: **10%**

Musculoskeletal anatomy practical/written exam.

On successful completion you will be able to:

- A thorough knowledge of musculoskeletal anatomy.

## On-line biomechanics quizzes

Due: **weeks 4,6,8,10,12**

Weighting: **10%**

The online biomechanics quizzes are designed to test the student's understanding of the basic biomechanics principles underlying joint function and mobilisation/manipulation. Each quiz is worth 2%.

On successful completion you will be able to:

- An understanding of peripheral and spinal joint mechanics.

## End of semester written exam

Due: **University examination period**

Weighting: **35%**

The final written examination covers material from all parts of the lecture series including Technique, Biomechanics and Anatomy.

On successful completion you will be able to:

- An understanding of peripheral and spinal joint mechanics.
- A thorough knowledge of musculoskeletal anatomy.
- An understanding of the history and development of chiropractic theories

## Delivery and Resources

### CLASSES

- Number and length of classes per week:
  - 2 x 2 hour lectures
  - 3 x 2 hour tutorials
  - 1 x 2 hour practical
- The timetable for classes can be found on the University web site at: <https://timetables.mq.edu.au/2019/>
- **TUTORIALS COMMENCE IN WEEK ONE**
- **Tutorial attendance/participation is required and will be factored into the final**

grade.

## Required and Recommended texts and/or materials

### TEXT

- Oatis CA. The Mechanics and Pathomechanics of Human Movement. 2<sup>nd</sup> ed. Lippincott Williams & Wilkins. 2009.

### Unit web page

The web page, referred to as iLearn, for this unit can be found by following the link below:

<http://ilearn.mq.edu.au/my>

Follow the links to CHIR 602. This includes links to ECHO 360.

All essential information that is required for this unit including lecture and tutorial notes will be posted on the iLearn web page.

## Policies and Procedures

Macquarie University policies and procedures are accessible from [Policy Central \(https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central\)](https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central). 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](#)
- [Grade Appeal Policy](#)
- [Complaint Management Procedure for Students and Members of the Public](#)
- [Special Consideration Policy](#) (**Note:** *The Special Consideration Policy is effective from 4 December 2017 and replaces the Disruption to Studies Policy.*)

Undergraduate students seeking more policy resources can visit the [Student Policy Gateway \(https://students.mq.edu.au/support/study/student-policy-gateway\)](https://students.mq.edu.au/support/study/student-policy-gateway). It is your one-stop-shop for the

key policies you need to know about throughout your undergraduate student journey.

If you would like to see all the policies relevant to Learning and Teaching visit [Policy Central \(http://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central\)](http://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policy-central).

## Student Code of Conduct

Macquarie University students have a responsibility to be familiar with the Student Code of Conduct: <https://students.mq.edu.au/study/getting-started/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](http://ask.mq.edu.au) or if you are a Global MBA student contact [globalmba.support@mq.edu.au](mailto:globalmba.support@mq.edu.au)

## Student Support

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

## Learning Skills

Learning Skills ([mq.edu.au/learningskills](http://mq.edu.au/learningskills)) provides academic writing resources and study strategies to improve your marks and take control of your study.

- [Workshops](#)
- [StudyWise](#)
- [Academic Integrity Module for Students](#)
- [Ask a Learning Adviser](#)

## Student Services and Support

Students with a disability are encouraged to contact the [Disability Service](#) who can provide appropriate help with any issues that arise during their studies.

## Student Enquiries

For all student enquiries, visit Student Connect at [ask.mq.edu.au](http://ask.mq.edu.au)

If you are a Global MBA student contact [globalmba.support@mq.edu.au](mailto:globalmba.support@mq.edu.au)

## 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.

## Graduate Capabilities

### Creative and Innovative

Our graduates will also be capable of creative thinking and of creating knowledge. They will be imaginative and open to experience and capable of innovation at work and in the community. We want them to be engaged in applying their critical, creative thinking.

This graduate capability is supported by:

#### Learning outcome

- The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.

#### Assessment task

- Anatomy Spot Test

### Capable of Professional and Personal Judgement and Initiative

We want our graduates to have emotional intelligence and sound interpersonal skills and to demonstrate discernment and common sense in their professional and personal judgement. They will exercise initiative as needed. They will be capable of risk assessment, and be able to handle ambiguity and complexity, enabling them to be adaptable in diverse and changing environments.

This graduate capability is supported by:

#### Learning outcomes

- The ability to perform peripheral adjustments and/or mobilisations with a basic level of psychomotor skills associated with these procedures i.e. tactile/palpatory skills and hand/body/eye co-ordination of practitioner movements.
- The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.

#### Assessment task

- Technique Spot Tests

### Commitment to Continuous Learning

Our graduates will have enquiring minds and a literate curiosity which will lead them to pursue knowledge for its own sake. They will continue to pursue learning in their careers and as they participate in the world. They will be capable of reflecting on their experiences and relationships with others and the environment, learning from them, and growing - personally, professionally



and socially.

This graduate capability is supported by:

### **Learning outcome**

- A thorough knowledge of musculoskeletal anatomy.

### **Assessment tasks**

- Anatomy Spot Test
- On-line biomechanics quizzes

## **Discipline Specific Knowledge and Skills**

Our graduates will take with them the intellectual development, depth and breadth of knowledge, scholarly understanding, and specific subject content in their chosen fields to make them competent and confident in their subject or profession. They will be able to demonstrate, where relevant, professional technical competence and meet professional standards. They will be able to articulate the structure of knowledge of their discipline, be able to adapt discipline-specific knowledge to novel situations, and be able to contribute from their discipline to inter-disciplinary solutions to problems.

This graduate capability is supported by:

### **Learning outcomes**

- The ability to perform peripheral adjustments and/or mobilisations with a basic level of psychomotor skills associated with these procedures i.e. tactile/palpatory skills and hand/body/eye co-ordination of practitioner movements.
- The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- The ability to perform basic static and motion palpation on all peripheral joints in the body.
- An understanding of peripheral and spinal joint mechanics.
- A thorough knowledge of musculoskeletal anatomy.
- An understanding of the history and development of chiropractic theories

### **Assessment tasks**

- Anatomy mid-semester test
- Technique Spot Tests
- Anatomy Spot Test
- On-line biomechanics quizzes
- End of semester written exam

## Critical, Analytical and Integrative Thinking

We want our graduates to be capable of reasoning, questioning and analysing, and to integrate and synthesise learning and knowledge from a range of sources and environments; to be able to critique constraints, assumptions and limitations; to be able to think independently and systemically in relation to scholarly activity, in the workplace, and in the world. We want them to have a level of scientific and information technology literacy.

This graduate capability is supported by:

### Learning outcomes

- The ability to perform peripheral adjustments and/or mobilisations with a basic level of psychomotor skills associated with these procedures i.e. tactile/palpatory skills and hand/body/eye co-ordination of practitioner movements.
- The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- The ability to perform basic static and motion palpation on all peripheral joints in the body.
- An understanding of peripheral and spinal joint mechanics.

### Assessment tasks

- Technique Spot Tests
- Anatomy Spot Test
- End of semester written exam

## Problem Solving and Research Capability

Our graduates should be capable of researching; of analysing, and interpreting and assessing data and information in various forms; of drawing connections across fields of knowledge; and they should be able to relate their knowledge to complex situations at work or in the world, in order to diagnose and solve problems. We want them to have the confidence to take the initiative in doing so, within an awareness of their own limitations.

This graduate capability is supported by:

### Learning outcome

- An understanding of peripheral and spinal joint mechanics.

### Assessment task

- Anatomy Spot Test

## Effective Communication

We want to develop in our students the ability to communicate and convey their views in forms effective with different audiences. We want our graduates to take with them the capability to read, listen, question, gather and evaluate information resources in a variety of formats, assess, write clearly, speak effectively, and to use visual communication and communication technologies as appropriate.

This graduate capability is supported by:

### Learning outcomes

- The ability to perform peripheral adjustments and/or mobilisations with a basic level of psychomotor skills associated with these procedures i.e. tactile/palpatory skills and hand/body/eye co-ordination of practitioner movements.
- The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- The ability to perform basic static and motion palpation on all peripheral joints in the body.

### Assessment tasks

- Technique Spot Tests
- Anatomy Spot Test
- End of semester written exam

## Engaged and Ethical Local and Global citizens

As local citizens our graduates will be aware of indigenous perspectives and of the nation's historical context. They will be engaged with the challenges of contemporary society and with knowledge and ideas. We want our graduates to have respect for diversity, to be open-minded, sensitive to others and inclusive, and to be open to other cultures and perspectives: they should have a level of cultural literacy. Our graduates should be aware of disadvantage and social justice, and be willing to participate to help create a wiser and better society.

This graduate capability is supported by:

### Learning outcome

- The ability to control these procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.

### Assessment task

- Technique Spot Tests

## Socially and Environmentally Active and Responsible

We want our graduates to be aware of and have respect for self and others; to be able to work with others as a leader and a team player; to have a sense of connectedness with others and country; and to have a sense of mutual obligation. Our graduates should be informed and active participants in moving society towards sustainability.

This graduate capability is supported by:

### Learning outcomes

- The ability to perform peripheral adjustments and/or mobilisations with a basic level of psychomotor skills associated with these procedures i.e. tactile/palpatory skills and hand/body/eye co-ordination of practitioner movements.
- The ability to perform basic static and motion palpation on all peripheral joints in the body.

### Assessment task

- Technique Spot Tests

## Changes from Previous Offering

The neuroanatomy component previously in CHIR602 has been moved to CHIR603.

Lectures for musculoskeletal and functional anatomy have been integrated into a hands on wet lab class.

## Grading

The relative weighting of the two parts of the unit is:

### Part A (Theory): 60% of total mark

i. Anatomy mid-semester exam	5%
ii. Anatomy spot test	10%
iii. Biomechanics online quizzes	10%
iv. End of semester written exam	35%

### Part B (Practical): 40% of total mark

i. Technique Spot Test 1 (Upper Limb)	10%
ii. Technique Spot Test 2 (Lower Limb)	10%
iii. Technique Spot Test 3 (Upper & Lower Limbs & Spinal)	20%

## GRADING

HD	High Distinction	Denotes work of outstanding quality
D	Distinction	Denotes work of superior quality
Cr	Credit	Denotes work of predominantly good quality
P	Pass	Denotes work of satisfactory quality
F	Fail	Denotes a candidate has failed to complete the unit satisfactorily

Achievement of grades will be based on the following criteria:

Grade	Description
Pass (P)	A minimum mark of 50% in the practical component PLUS a minimum total raw mark of 50%
Credit (Cr)	A minimum mark of 50% in the practical component PLUS a minimum total raw mark of 65%
Distinction (D)	A minimum mark of 50% in the practical component PLUS a minimum total raw mark of 75%
High Distinction (HD)	A minimum mark of 50% in the practical component PLUS a minimum total raw mark of 85%

## Serious and unavoidable disruption

**Serious and unavoidable disruption:** The University classifies a disruption as **serious and unavoidable** if it:

- could not have reasonably been anticipated, avoided or guarded against by the student; and
- was beyond the student's control; and
- caused substantial disruption to the student's capacity for effective study and/or completion of required work; and
- occurred during an event critical study period and was at least three (3) consecutive days duration, and/or

- prevented completion of a final examination.

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 the disruption to studies process the examination will be scheduled after the conclusion of the official examination period. (Individual Faculties may wish to signal when the Faculty Supplementary exams are normally scheduled.)

***If you are granted a supplementary exam via the Disruption to Studies process, you will have to write a supplementary exam in the supplementary exam period. In this scenario, only your supplementary exam mark will count towards your final exam mark, irrespective of whether or not you attended the final exam in the normal examination period. The submission of a Disruption to Studies form should not be used as a 'just in case' strategy.***

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.

If you apply for Disruption to Study for your final examination, you must make yourself available for the week of July 24 – 28, 2017. If you are not available at that time, there is no guarantee an additional examination time will be offered. Specific examination dates and times will be determined at a later date.