



# CHIR602

## Chiropractic A

S1 Day 2017

*Dept of Chiropractic*

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#### **Disclaimer**

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## General Information

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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 basic knowledge of the neuro-anatomy of the human nervous system.

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 a neuro-anatomy mid-semester written test, a series of 5 biomechanics online quizzes, an end of semester written examination and a written assignment.

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

## Assessment Tasks

Name	Weighting	Hurdle	Due
<a href="#">Neuro-anatomy mid-semester tes</a>	5%	No	Week 6
<a href="#">Technique Spot Tests</a>	40%	No	weeks 5,8,13

Name	Weighting	Hurdle	Due
<u>Written Assignment</u>	15%	No	week 7
<u>On-line biomechanics quizzes</u>	5%	No	weeks 4,6,8,10,12
<u>End of semester written examin</u>	35%	No	University examination period

## Neuro-anatomy mid-semester tes

Due: **Week 6**

Weighting: **5%**

Neuro-anatomy written exam.

On successful completion you will be able to:

- A thorough basic knowledge of the neuro-anatomy of the human nervous system.

## Technique Spot Tests

Due: **weeks 5,8,13**

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.

## Written Assignment

Due: **week 7**

Weighting: **15%**

The written assignment covers biomechanics.

On successful completion you will be able to:

- An understanding of peripheral and spinal joint mechanics.

## On-line biomechanics quizzes

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

Weighting: **5%**

The online biomechanics quizzes are designed to test the student's understanding of the basic biomechanics principles underlying joint mobilisation/manipulation. Each quiz is worth 1%.

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, Neuro-anatomy and other topics. .

On successful completion you will be able to:

- An understanding of peripheral and spinal joint mechanics.
- A thorough basic knowledge of the neuro-anatomy of the human nervous system.
- An understanding of the history and development of chiropractic theories

## Delivery and Resources

### CLASSES

- Number and length of classes per week:
- 3 x 2 hour + 1 x 1 hour lectures
- 3 x 2 hour tutorials
- The timetable for classes can be found on the University web site at:

<https://timetables.mq.edu.au/Scientia/Web/index.html>

- **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](#). Students should be aware of the following policies in particular with regard to Learning and Teaching:

Academic Honesty Policy [http://mq.edu.au/policy/docs/academic\\_honesty/policy.html](http://mq.edu.au/policy/docs/academic_honesty/policy.html)

Assessment Policy [http://mq.edu.au/policy/docs/assessment/policy\\_2016.html](http://mq.edu.au/policy/docs/assessment/policy_2016.html)

Grade Appeal Policy <http://mq.edu.au/policy/docs/gradeappeal/policy.html>

Complaint Management Procedure for Students and Members of the Public [http://www.mq.edu.au/policy/docs/complaint\\_management/procedure.html](http://www.mq.edu.au/policy/docs/complaint_management/procedure.html)

Disruption to Studies Policy (in effect until Dec 4th, 2017): [http://www.mq.edu.au/policy/docs/disruption\\_studies/policy.html](http://www.mq.edu.au/policy/docs/disruption_studies/policy.html)

Special Consideration Policy (in effect from Dec 4th, 2017): <https://staff.mq.edu.au/work/strategy-planning-and-governance/university-policies-and-procedures/policies/special-consideration>

In addition, a number of other policies can be found in the [Learning and Teaching Category](#) of 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/support/student\\_conduct/](https://students.mq.edu.au/support/student_conduct/)

## Results

Results shown in *iLearn*, 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](#).

## 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)

## 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

- Written Assignment

## 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 basic knowledge of the neuro-anatomy of the human nervous system.

## Assessment tasks

- Written Assignment
- 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 basic knowledge of the neuro-anatomy of the human nervous system.
- An understanding of the history and development of chiropractic theories

## **Assessment tasks**

- Neuro-anatomy mid-semester test
- Technique Spot Tests
- Written Assignment
- 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
- Written Assignment
- 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**

- Written Assignment

## **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
- Written Assignment
- 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/palpation 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

## Grading

The relative weighting of the two parts is as follows:

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

i. End of semester written exam	<b>35%</b>
ii. Written assignment	<b>15%</b>
iii. Biomechanics online quizzes	<b>5%</b>
iv. Neuro-anatomy mid-semester exam	<b>5%</b>

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

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

## 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.

## Changes since First Published

Date	Description
23/02/2017	Have added graduate capabilities to learning outcomes and assessments.