



# CHIR315

## Chiropractic Science 5

S1 Day 2014

*Chiropractic*

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## General Information

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By appointment

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Credit points

3

Prerequisites

[Admission to BChiroSc and (CHIR213(P) or CHIR201(P)) and (CHIR214(P) or CHIR202(P))] or admission to PGQualChiro

Corequisites

Co-badged status

Unit description

This unit explores the theory and practice of chiropractic spinal manipulative therapy in detail, and extends the psychomotor skills acquired in previous technique units. The hypotheses and scientific rationale relating to chiropractic intervention is examined through exploration of the current literature. Major themes relating to evidence-based practice (EBP) are explored. Spinal biomechanics is explored in detail.

## 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 spinal adjustments and/or mobilisations with the appropriate psychomotor skills.

The ability to control adjustment/mobilisation 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 of spinal joints.

An understanding of spinal and peripheral joint mechanics.

A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.

Research skills at the level of an open inquiry within structured guidelines as part of a research skills development (RSD) progression.

## Assessment Tasks

Name	Weighting	Due
<a href="#">Tutorial attendance</a>	0%	Ongoing
<a href="#">ICA (3x)</a>	0%	Rolling

Name	Weighting	Due
<u>iLearn quizzes (2x)</u>	5%	Weeks 6 & 11.
<u>Assignment</u>	15%	Week 6
<u>FoCA (2x10%)</u>	20%	Weeks 6 & 11.
<u>OSCE</u>	30%	Week 13.
<u>End of semester written exam</u>	30%	University Examination Period

## Tutorial attendance

Due: **Ongoing**

Weighting: **0%**

On successful completion you will be able to:

- The ability to perform spinal adjustments and/or mobilisations with the appropriate psychomotor skills.
- The ability to control adjustment/mobilisation 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 of spinal joints.
- An understanding of spinal and peripheral joint mechanics.
- A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.
- Research skills at the level of an open inquiry within structured guidelines as part of a research skills development (RSD) progression.

## ICA (3x)

Due: **Rolling**

Weighting: **0%**

An In Class Adjustment (ICA) is a task that aims to help you develop the challenging skill of 'putting it all together'. You will need to address the clinical presentation of a fellow student. You need to take a case history, conduct a physical examination, develop a treatment plan, deliver the first adjustment of that treatment plan, conduct a post treatment examination and appropriately record all aspects of this clinical interaction.

You will work independently up to the point of performing the adjustment. At that point you shall consult a tutor about the case you have worked up. Your tutor will discuss the clinical presentation with you and provide feedback on your clinical interaction, reasoning and records

up to that point. Your tutor will then either agree with your proposed adjustment or propose an alternate approach. You will then perform the adjustment or other procedure under the observation of your tutor who will then offer immediate feedback on your performance.

The ICAs are a crucial part of your development as a Chiropractor. We have weighted these tasks at 0% to encourage you to seek feedback on your performance of the techniques and procedures that you find more challenging.

On successful completion you will be able to:

- The ability to perform spinal adjustments and/or mobilisations with the appropriate psychomotor skills.
- The ability to control adjustment/mobilisation 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 of spinal joints.
- An understanding of spinal and peripheral joint mechanics.
- A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.

## iLearn quizzes (2x)

Due: **Weeks 6 & 11.**

Weighting: **5%**

Online Quiz covering material from the week it is released and the previous 5 weeks (6 weeks total). There will be some overlap of weeks.

The quiz will be available online Wednesday evening at 6pm and will stay open for 24 hours closing 6pm Thursday evening.

On successful completion you will be able to:

- The ability to perform spinal adjustments and/or mobilisations with the appropriate psychomotor skills.
- The ability to control adjustment/mobilisation procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- An understanding of spinal and peripheral joint mechanics.
- A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.
- Research skills at the level of an open inquiry within structured guidelines as part of a research skills development (RSD) progression.

## Assignment

Due: **Week 6**

Weighting: **15%**

An assignment that allows you to demonstrate your understanding of biomechanics as it relates to chiropractic manipulative therapy.

On successful completion you will be able to:

- An understanding of spinal and peripheral joint mechanics.
- A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.
- Research skills at the level of an open inquiry within structured guidelines as part of a research skills development (RSD) progression.

## FoCA (2x10%)

Due: **Weeks 6 & 11.**

Weighting: **20%**

Ongoing assessment (2x10%)

On successful completion you will be able to:

- The ability to perform spinal adjustments and/or mobilisations with the appropriate psychomotor skills.
- The ability to control adjustment/mobilisation 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 of spinal joints.
- An understanding of spinal and peripheral joint mechanics.
- A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.

## OSCE

Due: **Week 13.**

Weighting: **30%**

On successful completion you will be able to:

- The ability to perform spinal adjustments and/or mobilisations with the appropriate psychomotor skills.

- The ability to control adjustment/mobilisation 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 of spinal joints.
- An understanding of spinal and peripheral joint mechanics.
- A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.

## End of semester written exam

Due: **University Examination Period**

Weighting: **30%**

On successful completion you will be able to:

- An understanding of spinal and peripheral joint mechanics.
- A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.
- Research skills at the level of an open inquiry within structured guidelines as part of a research skills development (RSD) progression.

## Delivery and Resources

### Classes

- The timetable for classes can be found on the University web site at:  
<http://www.timetables.mq.edu.au/>
- Tutorials begin on Wednesday of week 2.
- Tutorial attendance/participation is required and will be factored in to the final grade

## Required and Recommended Texts and/or Materials

TEXT

- Esposito & Philipson, Manual of Spinal Technique - Printed adjustment compilation available via the Department
- Oatis. Kinesiology "Kinesiology The Mechanics and Pathomechanics of Human Movement," 2nd edition 2008, Lippincott, Williams and Wilkins
- Manual of Peripheral Technique, Department of Chiropractic, Macquarie University - online adjustment compilation available via iLearn download

- RECOMMENDED READING
- Bergmann & Peterson: Chiropractic technique, principles and procedures 3rd Ed. 2011, Mosby
- Sackett & Straus, et al. Evidence-based Medicine: how to practice and teach EBM. Churchill Livingstone.
- Specific week-week resources available as links via iLearn

## Teaching and Learning Strategy / technology required

- This unit is comprised of lectures and technique tutorials. There will also be some self directed learning within the course.
- The assignment contributes 15% of the overall mark.
- The unit is an internal offering.
- Students are expected to attend lectures and tutorials (tutorial minimum attendance 85%)
- iLearn is not a substitute for lecture attendance. Complex concepts are discussed as a group within the lecture format.
- The assignment will be submitted via Turnitin
- The online quizzes will be accessed via iLearn

## What has changed?

Since 2013 there has been an increase in the degree of clinically based reasoning in this unit.

## Unit Schedule

Refer to CHIR315 iLearn 2013 for unit schedule

## Learning and Teaching Activities

### Lecture

Lecture/class discussion

### Tutorial

Demonstration/tutorial

### ICA

In Class Adjustment (Clinical+Practical)



## FoCA

Feedback on Chiropractic Assessment

## iLearn Quiz

online quiz

## Assignment

Assignment

## Theory assessment

End of semester exam

## OSCE

End of semester practical

## 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.html>

Grading Policy <http://mq.edu.au/policy/docs/grading/policy.html>

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

Grievance Management Policy [http://mq.edu.au/policy/docs/grievance\\_management/policy.html](http://mq.edu.au/policy/docs/grievance_management/policy.html)

Disruption to Studies Policy [http://www.mq.edu.au/policy/docs/disruption\\_studies/policy.html](http://www.mq.edu.au/policy/docs/disruption_studies/policy.html) *The Disruption to Studies Policy is effective from March 3 2014 and replaces the Special Consideration Policy.*

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/)

## Passing the unit

To pass CHIR315, students need to pass the practical component of the unit AS WELL AS achieve an overall passing grade. The passing grade is 50%. Tutorial attendance needs to be

≥85% in addition to the condition above.

Three ICA's must be completed to satisfy unit requirements. These are formative assessments.

## 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://informatics.mq.edu.au/help/>.

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

## Graduate Capabilities

### 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 spinal adjustments and/or mobilisations with the appropriate psychomotor skills.

- The ability to control adjustment/mobilisation 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 of spinal joints.

### **Assessment tasks**

- Tutorial attendance
- ICA (3x)
- FoCA (2x10%)
- OSCE

### **Learning and teaching activities**

- Demonstration/tutorial
- End of semester practical

## **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**

- Research skills at the level of an open inquiry within structured guidelines as part of a research skills development (RSD) progression.

### **Assessment tasks**

- Tutorial attendance
- ICA (3x)
- iLearn quizzes (2x)
- End of semester written exam

### **Learning and teaching activities**

- Lecture/class discussion
- Assignment
- End of semester exam

## **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 spinal adjustments and/or mobilisations with the appropriate psychomotor skills.
- The ability to control adjustment/mobilisation 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 of spinal joints.
- An understanding of spinal and peripheral joint mechanics.
- A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.

## **Assessment tasks**

- Tutorial attendance
- ICA (3x)
- iLearn quizzes (2x)
- Assignment
- FoCA (2x10%)
- OSCE
- End of semester written exam

## **Learning and teaching activities**

- Lecture/class discussion
- Demonstration/tutorial
- In Class Adjustment (Clinical+Practical)
- Feedback on Chiropractic Assessment
- End of semester exam
- End of semester practical

## **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 spinal adjustments and/or mobilisations with the appropriate psychomotor skills.
- The ability to control adjustment/mobilisation 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 of spinal joints.
- An understanding of spinal and peripheral joint mechanics.
- A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.
- Research skills at the level of an open inquiry within structured guidelines as part of a research skills development (RSD) progression.

## **Assessment tasks**

- Tutorial attendance
- ICA (3x)
- iLearn quizzes (2x)
- End of semester written exam

## **Learning and teaching activities**

- Lecture/class discussion
- Demonstration/tutorial
- In Class Adjustment (Clinical+Practical)
- Assignment
- End of semester exam
- End of semester practical

## **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 outcomes

- An understanding of spinal and peripheral joint mechanics.
- A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.
- Research skills at the level of an open inquiry within structured guidelines as part of a research skills development (RSD) progression.

## Assessment task

- End of semester written exam

## Learning and teaching activity

- Lecture/class discussion
- Demonstration/tutorial
- In Class Adjustment (Clinical+Practical)
- End of semester exam

## 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 outcomes

- The ability to perform spinal adjustments and/or mobilisations with the appropriate psychomotor skills.
- The ability to control adjustment/mobilisation procedures with regard to patient position, practitioner position, primary contact, secondary contact, lock-up/set-up, speed, amplitude and line of drive.
- Research skills at the level of an open inquiry within structured guidelines as part of a research skills development (RSD) progression.

## Assessment tasks

- Tutorial attendance
- ICA (3x)
- End of semester written exam

## Learning and teaching activities

- Lecture/class discussion

- Demonstration/tutorial
- In Class Adjustment (Clinical+Practical)
- 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 spinal adjustments and/or mobilisations with the appropriate psychomotor skills.
- The ability to control adjustment/mobilisation 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 of spinal joints.

### Assessment tasks

- Tutorial attendance
- ICA (3x)
- FoCA (2x10%)
- OSCE

### Learning and teaching activities

- Lecture/class discussion
- Demonstration/tutorial
- In Class Adjustment (Clinical+Practical)
- Feedback on Chiropractic Assessment
- End of semester practical

## 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**

- Research skills at the level of an open inquiry within structured guidelines as part of a research skills development (RSD) progression.

### **Assessment task**

- Tutorial attendance

### **Learning and teaching activity**

- Lecture/class discussion

## **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**

- A thorough knowledge of, and clinical proficiency in examination and testing procedures taught in this unit.
- Research skills at the level of an open inquiry within structured guidelines as part of a research skills development (RSD) progression.

### **Assessment task**

- Tutorial attendance

### **Learning and teaching activity**

- Lecture/class discussion
- Demonstration/tutorial