CHIR2104
Chiropractic Sciences 4
Session 2, In person-scheduled-weekday, North Ryde 2022
Department of Chiropractic

Contents

General Information 2
Learning Outcomes 4
General Assessment Information 5
Assessment Tasks 6
Delivery and Resources 9
Unit Schedule 9
Policies and Procedures 10
PROFESSIONALISM, INCLUSION AND DIVERSITY 12
Changes since First Published 13

Disclaimer
Macquarie University has taken all reasonable measures to ensure the information in this publication is accurate and up-to-date. However, the information may change or become out-dated as a result of change in University policies, procedures or rules. The University reserves the right to make changes to any information in this publication without notice. Users of this publication are advised to check the website version of this publication [or the relevant faculty or department] before acting on any information in this publication.
General Information
Unit convenor and teaching staff
Unit Convenor and Lecturer
Michael Swain
michael.swain@mq.edu.au
Contact via 0298504053
Room 2232, Level 2, 75 Talavera Rd
By appointment

Tutor
David McNaughton
david.mcnaughton@mq.edu.au

Tutor
Stephen Sharp
stephen.sharp@mq.edu.au

Tutor
Simon Paul Vella
simonpaul.vella@mq.edu.au

Tutor
Laura Montgomery
laura.montgomery@mq.edu.au

Tutor
Annie Young
annie.young@mq.edu.au

Tutor
Megan Yanz
megan.yanz@mq.edu.au

Director of Teaching (Chiropractic)
Christopher Burrell
christopher.burrell@mq.edu.au
Contact via 02 9850 3994
Level 2, 75 Talavera Rd
By appointment

Undergraduate Course Director (Chiropractic)
Aron Downie
aron.downie@mq.edu.au
Contact via 02 9850 6382
Level 2, 75 Talavera Rd
Learning Outcomes

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

ULO1: Describe clinical biomechanics (kinematics and kinetics) of the upper extremity and thorax of the human body.

ULO2: Demonstrate respect and empathy for patients while performing physical assessment techniques for the thoracic region and upper extremities: palpation, joint range of motion and muscle testing.

ULO3: Perform chiropractic techniques and joint manipulation skills on the thoracic spine, ribs and lower extremity.

ULO4: Demonstrate basic clinical reasoning by applying knowledge of thoracic and upper extremity pathomechanics to interpret information derived from a physical assessment and the application of chiropractic techniques.
ULO5: Apply epidemiological knowledge and biostatistical skills to quantify and interpret information pertaining to diagnostic test accuracy

**General Assessment Information**

The Macquarie University Assessment Policy contains grade descriptors and other grading information.

All final grades are determined by a grading committee, in accordance with the Macquarie University Assessment Policy, and are not the sole responsibility of the Unit Convenor.

Students will be awarded a final grade and a mark corresponding to the grade descriptors specified in the Assessment Procedure (clause 128).

To pass this unit, you must demonstrate sufficient evidence of achievement of the learning outcomes, meet any ungraded requirements, and achieve a final mark of 50 or better.

Further details for each assessment task will be available on iLearn.

**Late Submissions**

Unless a Special Consideration request has been submitted and approved, a 5% penalty (OF THE TOTAL POSSIBLE MARK) will be applied each day a written assessment is not submitted, up until the 7th day (including weekends). After the 7th day, a grade of '0' will be awarded even if the assessment is submitted. Submission time for all written assessments is set at 5pm. A 1-hour grace period is provided to students who experience a technical concern.

For example:

<table>
<thead>
<tr>
<th>Number of days (hours) late</th>
<th>Total Possible Marks</th>
<th>Deduction</th>
<th>Raw mark</th>
<th>Final mark</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 day (1-24 hours)</td>
<td>100</td>
<td>5</td>
<td>75</td>
<td>70</td>
</tr>
<tr>
<td>2 days (24-48 hours)</td>
<td>100</td>
<td>10</td>
<td>75</td>
<td>65</td>
</tr>
<tr>
<td>3 days (48-72 hours)</td>
<td>100</td>
<td>15</td>
<td>75</td>
<td>60</td>
</tr>
<tr>
<td>7 days (144-168 hours)</td>
<td>100</td>
<td>35</td>
<td>75</td>
<td>40</td>
</tr>
<tr>
<td>&gt;7 days (&gt;168 hours)</td>
<td>100</td>
<td>-</td>
<td>75</td>
<td>0</td>
</tr>
</tbody>
</table>

For any late submissions of time-sensitive tasks, such as scheduled tests/exams, performance assessments/presentations, and/or scheduled practical assessments/labs, students need to submit an application for Special Consideration.
## Assessment Tasks

<table>
<thead>
<tr>
<th>Name</th>
<th>Weighting</th>
<th>Hurdle</th>
<th>Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-tutorial quizzes</td>
<td>10%</td>
<td>No</td>
<td>Weekly: Week 2 to Week 11</td>
</tr>
<tr>
<td>Physical assessment and chiropractic technique videos</td>
<td>10%</td>
<td>No</td>
<td>Week 5</td>
</tr>
<tr>
<td>Research assignment</td>
<td>20%</td>
<td>No</td>
<td>Week 8</td>
</tr>
<tr>
<td>Chiropractic skills assessment (OSCE)</td>
<td>20%</td>
<td>No</td>
<td>Week 12</td>
</tr>
<tr>
<td>Final examination</td>
<td>40%</td>
<td>No</td>
<td>Session 2 Examination Period</td>
</tr>
</tbody>
</table>

### In-tutorial quizzes

Assessment Type 1: Quiz/Test  
Indicative Time on Task 2: 10 hours  
Due: Weekly: Week 2 to Week 11  
Weighting: 10%

It is recommended that students participate in at least 80% of the chiropractic skills tutorials. This includes participation in the weekly (10 weeks) case study discussions. Students are required to complete weekly in-tutorial quizzes assessing knowledge and skills developed through the tutorial practical work and the case studies presented in the tutorials.

On successful completion you will be able to:

- Describe clinical biomechanics (kinematics and kinetics) of the upper extremity and thorax of the human body.
- Demonstrate respect and empathy for patients while performing physical assessment techniques for the thoracic region and upper extremities: palpation, joint range of motion and muscle testing.
- Demonstrate basic clinical reasoning by applying knowledge of thoracic and upper extremity pathomechanics to interpret information derived from a physical assessment and the application of chiropractic techniques.
Physical assessment and chiropractic technique videos

Assessment Type: Clinical performance evaluation
Indicative Time on Task: 12 hours
Due: Week 5
Weighting: 10%

Students will maintain a video portfolio that demonstrates their ability to perform physical assessments and chiropractic techniques taught in this unit. Accompanying videos of procedures will be a brief critical appraisal statement that reflects on students' aptitude within the chiropractic skills competency framework. Only a subset of procedures will be evaluated by tutors to formulate the mark for this assessment.

On successful completion you will be able to:

• Demonstrate respect and empathy for patients while performing physical assessment techniques for the thoracic region and upper extremities: palpation, joint range of motion and muscle testing.
• Perform chiropractic techniques and joint manipulation skills on the thoracic spine, ribs and lower extremity

Research assignment

Assessment Type: Quantitative analysis task
Indicative Time on Task: 12 hours
Due: Week 8
Weighting: 20%

In this assessment, students will analyse a data set obtained from a simulated observational study. Students will report on the diagnostic test accuracy for a musculoskeletal condition.

On successful completion you will be able to:

• Apply epidemiological knowledge and biostatistical skills to quantify and interpret information pertaining to diagnostic test accuracy

Chiropractic skills assessment (OSCE)

Assessment Type: Clinical performance evaluation
Indicative Time on Task: 12 hours
Students will be assessed on their competency in performing chiropractic skills. Students will demonstrate a series of chiropractic procedures taught in this unit.

On successful completion you will be able to:

- Demonstrate respect and empathy for patients while performing physical assessment techniques for the thoracic region and upper extremities: palpation, joint range of motion and muscle testing.
- Perform chiropractic techniques and joint manipulation skills on the thoracic spine, ribs and lower extremity

**Final examination**

Assessment Type 1: Examination
Indicative Time on Task 2: 12 hours
Due: Session 2 Examination Period
Weighting: 40%

This written test will assess all theoretical material for the unit. It will include multiple-choice questions

On successful completion you will be able to:

- Describe clinical biomechanics (kinematics and kinetics) of the upper extremity and thorax of the human body.
- Demonstrate basic clinical reasoning by applying knowledge of thoracic and upper extremity pathomechanics to interpret information derived from a physical assessment and the application of chiropractic techniques.
- Apply epidemiological knowledge and biostatistical skills to quantify and interpret information pertaining to diagnostic test accuracy

---

1 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.

2 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

As a student enrolled in this unit, you will engage in a range of online and face-to-face learning activities, including online lecture modules, chiropractic skills tutorials and quizzes. Details can be found on the iLearn site for this unit.

Recommended Readings


Active participation in the learning activities throughout the unit will require students to have access to a tablet, laptop or similar device. Students who do not own their own laptop computer may borrow one from the university library.

Unit Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>Online lecture</th>
<th>Tuesday tutorial</th>
<th>Thursday tutorial</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>Unit overview Introduction to Force Sensing Table Technology®</td>
<td>No tutorial</td>
<td>No tutorial</td>
</tr>
<tr>
<td>Week 2</td>
<td>Thorax: structure and function</td>
<td>Thoracic spine: observation, surface palpation, active &amp; passive ROM</td>
<td>Thoracic: motion palpation, chiropractic techniques. Case study 1</td>
</tr>
<tr>
<td>Week 3</td>
<td>Thorax: muscle function</td>
<td>Thoracic: FSTT introduction, chiropractic techniques</td>
<td>Thoracic: motion palpation, chiropractic techniques. Case study 2</td>
</tr>
<tr>
<td>Week 4</td>
<td>Introduction to diagnostic test accuracy</td>
<td>Ribs: motion palpation, chiropractic techniques</td>
<td>Thoracic: chiropractic techniques. Case study 3</td>
</tr>
<tr>
<td>Week 5</td>
<td>Shoulder: structure and function</td>
<td>Shoulder: observation, surface palpation, active/passive ROM</td>
<td>Shoulder: motion palpation, chiropractic techniques. Case study 4</td>
</tr>
</tbody>
</table>
**Unit guide CHIR2104 Chiropractic Sciences 4**

<table>
<thead>
<tr>
<th>Week</th>
<th>Section</th>
<th>Methodology</th>
<th>Case Study</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Shoulder: muscle function</td>
<td>Shoulder: muscle length, muscle strength and soft tissue techniques</td>
<td>Study 5</td>
</tr>
<tr>
<td>7</td>
<td>Posture</td>
<td>AC/SC joint: surface palpation, motion palpation, chiropractic techniques.</td>
<td>Study 6</td>
</tr>
<tr>
<td>8</td>
<td>Elbow: structure and function</td>
<td>Elbow: observation, surface palpation, active/passive ROM</td>
<td>Study 7</td>
</tr>
<tr>
<td>9</td>
<td>Elbow: muscle function</td>
<td>Elbow: muscle strength, soft tissue techniques</td>
<td>Study 8</td>
</tr>
<tr>
<td>10</td>
<td>Wrist and hand: structure and function</td>
<td>Wrist/hand: observation, surface palpation, active/passive ROM</td>
<td>Study 9</td>
</tr>
<tr>
<td>11</td>
<td>Forearm: muscle function</td>
<td>Hand: Muscle strength, chiropractic techniques</td>
<td>Study 10</td>
</tr>
<tr>
<td>12</td>
<td>Hand: muscle function</td>
<td>Revision tutorial - reflective practice</td>
<td>OSCE</td>
</tr>
<tr>
<td>13</td>
<td>Unit summary, Q&amp;A</td>
<td>No tutorial</td>
<td>Supplementary OSCE</td>
</tr>
</tbody>
</table>

**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 or if you are a Global MBA student contact 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
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/.

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.

PROFESSIONALISM, INCLUSION AND DIVERSITY

PROFESSIONALISM

In the Faculty of Medicine, Health and Human Sciences, professionalism is a key capability embedded in all our courses.

As part of developing professionalism, students are expected to attend all small group interactive sessions including clinical, practical, laboratory, work-integrated learning (e.g., PACE placements), and team-based learning activities. Some learning activities are recorded (e.g., face-to-face lectures), however, you are encouraged to avoid relying upon such material as they do not recreate the whole learning experience and technical issues can and do occur. As an adult learner, we respect your decision to choose how you engage with your learning. Still, we would remind you that the learning opportunities we create for you have been done so to enable your success and that not engaging may impact your ability to complete this unit successfully. We equally expect that you show respect for the academic staff who have worked hard to develop meaningful activities and prioritise your learning by communicating with them in advance if you are unable to attend a small group interactive session.

Another dimension of professionalism is having respect for your peers. It is the right of every student to learn in an environment that is free of disruption and distraction. Please arrive at all learning activities on time, and if you are unavoidably detained, please join the activity as quietly as possible to minimise disruption. Phones and other electronic devices that produce noise and other distractions must be turned off prior to entering class. Where your own device (e.g., laptop) is being used for class-related activities, you are asked to close down all other applications to avoid distraction to you and others. Please treat your fellow students with the utmost respect. If you are uncomfortable participating in any specific activity, please let the relevant academic know.

Inclusion and Diversity

Social inclusion at Macquarie University is about giving everyone who has the potential to benefit
from higher education the opportunity to study at university, participate in campus life and flourish in their chosen field. The University has made significant moves to promote an equitable, diverse and exciting campus community for the benefit of staff and students. It is your responsibility to contribute to the development of an inclusive culture and practice in the areas of learning and teaching, research, and service orientation and delivery. As a member of the Macquarie University community, you must not discriminate against or harass others based on their sex, gender, race, marital status, carers' responsibilities, disability, sexual orientation, age, political conviction or religious belief. All staff and students are expected to display appropriate behaviour that is conducive to a healthy learning environment for everyone.

**Changes since First Published**

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>14/07/2022</td>
<td>Updated Unit Convenor details</td>
</tr>
<tr>
<td>11/07/2022</td>
<td>Added section on PROFESSIONALISM, INCLUSION AND DIVERSITY per FMHHS guide</td>
</tr>
</tbody>
</table>