



CHIR6303

Medical Sciences B

Session 2, In person-scheduled-weekday, North Ryde 2022

Department of Chiropractic

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General Information

Unit convenor and teaching staff

Convenor

Stephney Whillier

stephney.whillier@mq.edu.au

Contact via 9850 9387

75 Talavera road, room 2240

This is best arranged via email

Credit points

10

Prerequisites

CHIR6302 or CHIR604

Corequisites

Co-badged status

Unit description

This is another unit in which students continue to explore the relationship between health and disease, from both the biological and psychosocial perspective. The pathologies studied in this unit are those of the musculoskeletal, nervous and integumentary systems, as well as those relating to the eye and the ear. Their causes, mechanisms and effects are explored. The links between these disease mechanisms and their clinical manifestations is highlighted. By the completion of this unit, students will have completed their study of the major diseases of the body, and how they manifest in the patient. This will ultimately deepen their understanding of the complex relationship between ourselves and our environment.

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:

ULO1: Name the pathologies that can occur in the nervous, musculoskeletal and integumentary systems, as well as those of the eye and ear.

ULO2: For each disorder, describe its aetiology, epidemiology, pathogenesis, pathophysiological mechanisms and clinical manifestations, and explain

the relationship between each.

ULO3: Differentiate between diseases on the basis of aetiology, pathogenesis, epidemiology and clinical manifestations.

ULO4: Explain the multifactorial nature of the development of disease states.

ULO5: Apply knowledge of anatomy, physiology, biochemistry and basic pathology, to develop the likely mode of progression of the diseases studied in this unit.

ULO6: Justify the need for chiropractors to have a sound knowledge and understanding of the diseases studied in this unit.

General Assessment Information

Grade descriptors and other information concerning grading are contained in the [Macquarie University Assessment Policy](#).

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 which must correspond 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 11.55pm. A 1-hour grace period is provided to students who experience a technical concern.

For example:

| Number of days (hours) late | Total Possible Marks | Deduction | Raw mark | Final mark |
|-----------------------------|----------------------|-----------|----------|------------|
| 1 day (1-24 hours) | 100 | 5 | 75 | 70 |
| 2 days (24-48 hours) | 100 | 10 | 75 | 65 |
| 3 days (48-72 hours) | 100 | 15 | 75 | 60 |
| 7 days (144-168 hours) | 100 | 35 | 75 | 40 |
| >7 days (>168 hours) | 100 | - | 75 | 0 |

Late submission of time sensitive tasks, such as timetabled tests/exams, scheduled performance assessments/presentations, scheduled practical assessments/labs, will be addressed by the unit convenor in a Special consideration application.

Special Consideration

If you are unable to complete an assessment task on or by the specified date due circumstances that are unexpected, unavoidable, significantly disruptive and beyond your control, you may apply for special consideration in accordance with the [special consideration policy](#). Applications for special consideration must be supported by appropriate evidence and submitted via ask.mq.edu.au.

Assessment Tasks Description

1. **Online Quizzes: Four (4) quizzes:** 11 minute quizzes to be completed online in WEEKS 5, 9, 11 and 13 that will test **lecture and tutorial** material:

1. Quiz 1 in week 5: nervous system pathophysiology
2. Quiz 2 in week 9: musculoskeletal system pathophysiology
3. Quiz 3 in week 11: urinary system pathophysiology
4. Quiz 4 in week 13: reproductive and integumentary systems pathophysiology

The format will be 10 multiple choice questions. Each quiz will open on Monday at 8am and close on Sunday at 11pm of that week. There will be absolutely no opportunity to submit a quiz after the closing time as answers are released at that point. If you have technical difficulties, email your answers to your convenor and they will be manually marked. If you email these after the closing time, they will not be marked. The quizzes will have a time limit of 11 minutes, and there will be only one submission per student. The resultant mark will be an **AVERAGE of the 4 quiz marks (please note, NOT best x of 4)**.

2. Mid-semester examination: This will cover the content of the first half of the semester, and will include all work in the lectures and tutorials up to and including week 6 material. The exam is one and a half hours and consists of short-answer questions. The questions are on the theory covered thus far and the ability to connect that knowledge to real life situations (e.g., clinical presentations). The exam will be done online on Tuesday, 6 September, from 3 – 4:30pm, in the lecture timeslot. Note that a supplementary of this exam may not be in the same format and may be a viva.

3. Medical Sciences B Essay: 1500 word essay relating the material explored in this unit to the clinical practice of chiropractic. It is uploaded through Turnitin on iLearn by Monday, 10 October, 5pm. Late submissions will receive a 10% per day penalty including weekends and public holidays. If you submit the assessment task 10 days or more beyond the due date, without an approved extension, you will be awarded a maximum of 50% of the overall assessment marks.

4. Final examination: This will cover the lecture and tutorial content for the entire semester. It

tests your knowledge of the theory, and the ability to connect that knowledge to real life situations (e.g., clinical presentations). It will consist of a 2 hour on-campus written exam with multiple choice questions, and case studies.

Assessment Tasks

| Name | Weighting | Hurdle | Due |
|--------------------------------|-----------|--------|-----------------------------|
| <u>Online quizzes</u> | 5% | No | Weeks 5, 9, 11 and 13 |
| <u>Mid-term examination</u> | 30% | No | Week 7 |
| <u>Final examination</u> | 60% | No | End of semester exam period |
| <u>Medical Science B Essay</u> | 5% | No | Week 10 |

Online quizzes

Assessment Type ¹: Quiz/Test

Indicative Time on Task ²: 10 hours

Due: **Weeks 5, 9, 11 and 13**

Weighting: **5%**

Quizzes will occur online throughout the semester. Each quiz will be of 10 minutes duration, and cover material that has been delivered in lectures and/or tutorials.

On successful completion you will be able to:

- Name the pathologies that can occur in the nervous, musculoskeletal and integumentary systems, as well as those of the eye and ear.
- For each disorder, describe its aetiology, epidemiology, pathogenesis, pathophysiological mechanisms and clinical manifestations, and explain the relationship between each.
- Differentiate between diseases on the basis of aetiology, pathogenesis, epidemiology and clinical manifestations.
- Explain the multifactorial nature of the development of disease states.
- Apply knowledge of anatomy, physiology, biochemistry and basic pathology, to develop the likely mode of progression of the diseases studied in this unit.

Mid-term examination

Assessment Type ¹: Examination

Indicative Time on Task ²: 15 hours

Due: **Week 7**

Weighting: **30%**

This will cover the content of the first half of the semester. Questions will be in short answer format.

On successful completion you will be able to:

- Name the pathologies that can occur in the nervous, musculoskeletal and integumentary systems, as well as those of the eye and ear.
- For each disorder, describe its aetiology, epidemiology, pathogenesis, pathophysiological mechanisms and clinical manifestations, and explain the relationship between each.
- Differentiate between diseases on the basis of aetiology, pathogenesis, epidemiology and clinical manifestations.
- Explain the multifactorial nature of the development of disease states.
- Apply knowledge of anatomy, physiology, biochemistry and basic pathology, to develop the likely mode of progression of the diseases studied in this unit.

Final examination

Assessment Type ¹: Examination

Indicative Time on Task ²: 25 hours

Due: **End of semester exam period**

Weighting: **60%**

This will cover the content of the entire semester. Questions will include multiple choice and short answer questions

On successful completion you will be able to:

- Name the pathologies that can occur in the nervous, musculoskeletal and integumentary systems, as well as those of the eye and ear.
- For each disorder, describe its aetiology, epidemiology, pathogenesis, pathophysiological mechanisms and clinical manifestations, and explain the relationship between each.
- Differentiate between diseases on the basis of aetiology, pathogenesis, epidemiology and clinical manifestations.
- Explain the multifactorial nature of the development of disease states.
- Apply knowledge of anatomy, physiology, biochemistry and basic pathology, to

develop the likely mode of progression of the diseases studied in this unit.

Medical Science B Essay

Assessment Type ¹: Essay

Indicative Time on Task ²: 10 hours

Due: **Week 10**

Weighting: **5%**

1500 word essay relating the material explored in this unit to the clinical practice of chiropractic.

On successful completion you will be able to:

- Justify the need for chiropractors to have a sound knowledge and understanding of the diseases studied in this unit.

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

Delivery mode

As a student enrolled in this unit, you will engage in a range of online and face-to-face learning activities, including face-to-face/online tutorials, readings, and online PowerPoint and pre-recordings of lectures. Details can be found on the iLearn site for this unit.

Recommended Readings are detailed in your tutorial manual.

Technology Used

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

| ACTIVITY | Total |
|----------|-------|
|----------|-------|

| | | |
|------------------|---|---------------------------------|
| Lectures | 1 × 2 hour lectures per week online Tuesday 3 – 5pm | 2 hours per week, weeks 1-12 |
| Tutorials | 1 × 2 hours tutorial class per week, weeks 2 – 12 Wednesday 12 – 2 OICC216, Wednesday 3 – 5pm online, Thursday 10 – 12 OICC 205, Thursday 1 – 3pm online, Thursday 2 – 4pm or 4 – 6pm OICC216 Note that you must attend just one tutorial a week. | 2 hours per week, weeks 2-12 |
| Other | Revision, self-instructional learning, preparation for tutorials and readings from the manual/text | 6 - 8 hours per week |

Please note that the venues are subject to change until just before the start of the semester. So, for further details on class time and locations for this unit follow the link below:

http://students.mq.edu.au/student_admin/timetables

Unit Web Page

You can log in to iLearn System via the link listed below:

<https://ilearn.mq.edu.au/login/MQ/>

Your username is your student MQID. Your MQID and password have been mailed to you by the university. If you have lost them, go to the student portal: <http://students.mq.edu.au/home>

All lecture materials will be posted on ilearn, and there is also a link to ECHO360 for **audio** recordings of the lectures.

Required and recommended resources

Required:

1. *HLTH3303/CHIR6303 Tutorial Course Manual 2022*– This has been uploaded to iLearn. Please be sure to either download, print and bind the manual, or have an iPad or laptop to access the manual during the tutorial.
2. Craft JA *et al* (2018) *Understanding Pathophysiology ANZ*, 3rd Edition, Elsevier Australia.

Recommended:

- McCance KL *et al* (2019) *Pathophysiology – The biologic basis of disease in adults and children*, 8th Edition, Elsevier Australia.

A note about textbooks:

Textbooks for this unit can be purchased online from Booktopia <https://www.booktopia.com.au/coop>

The list of Macquarie University S1 2022 units and texts can be found on the [Booktopia website](#).

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 an](#)

[d 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
- Mental health [support](#)
- [Safety support](#) to respond to bullying, harassment, sexual harassment and sexual assault
- [Social support including information about finances, tenancy and legal issues](#)

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.

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 towards 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.

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, but we would remind you that the learning opportunities we create for you have been done so to enable your success, and that by not engaging you may impact your ability to successfully complete this unit. 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 to all learning activities on time, and if you are unavoidably detained, please join 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.