CHIR604

Medical Sciences A

S1 Day 2018

Dept of Chiropractic

Contents

General Information

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Credit points
4

Prerequisites
Admission to MChiroprac

Corequisites

Co-badged status

Unit description
This unit provides students with the opportunity to explore the relationship between health and disease, from both the biological and psychosocial perspective. The common pathologies of each body system are studied, and 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 a good knowledge of the major diseases of the body, and how they manifest in the patient. By studying a large number of human disease states, students will 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:

Name the range of pathologies that can occur in each of the following systems: Cardiovascular, Respiratory, Lymphatic, Haematopoietic, Endocrine, Immune, Digestive, Urinary and Reproductive.

Name and define the common symptoms and signs that are associated with diseases of the body systems named above.

Describe the aetiology, epidemiology, pathogenesis and clinical manifestations for each disease studied.

For each disease studied, explain the relationship between its aetiology, pathogenesis and clinical manifestations.

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

Explain the pathophysiological processes which can alter an individual's health status.

Explain the multifactorial nature in 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.

General Assessment Information

Assessment Tasks Description

In-class tests

The on-line quizzes will be made available for a 48 hour window at the end of the week, during weeks 4, 6, 9, 11 & 13. Each quiz will be of 10 minutes duration, and cover material that has

been delivered in lectures and/or tutorials.

Assignment

See iLearn for details.

Requirements for your assignment:

a) It must be done individually

b) It must be fully referenced, with a minimum of 8 peer-reviewed journal articles or textbooks.

c) As a rough guideline, a length of approximately 1,500 words is expected.

d) The assignment needs to be submitted by midnight on the due date, electronically via Turnitin. A hard copy is NOT required.

Final examination

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

Participation Requirements

A minimum 80% participation is required at tutorials.

Examination(s)

The University Examination period in for First Half Year 2018 is from Tuesday 12th June to Friday 29th June.

You are expected to present yourself for examination at the time and place designated in the University Examination Timetable. The timetable will be available in Draft form approximately eight weeks before the commencement of the examinations and in Final form approximately four weeks before the commencement of the examinations. https://iexams.mq.edu.au/timetable

The only exception to not sitting an examination at the designated time is because of documented illness or unavoidable disruption. In these circumstances you may wish to submit a application for 'Special consideration'. Information about the special consideration process is available at **Policy Central:** http://www.mq.edu.au/policy/

If you receive special consideration for the final exam, a supplementary exam will be scheduled in the interval between the regular exam period and the start of the next session. By making a special consideration application for the final exam you are declaring yourself available for a resit during the supplementary examination period and will not be eligible for a second special consideration approval based on pre-existing commitments. Please ensure you are familiar with the policy prior to submitting an application. You can check the supplementary exam information page on FSE101 in iLearn (bit.ly/FSESupp) for dates, and approved applicants will receive an individual notification one week prior to the exam with the exact date and time of their supplementary examination.

Extensions and penalties

Extensions to assignments is at the discretion of the unit convenor. It is the responsibility of the student to prove to the convenor that there has been unavoidable disruption. Please submit a 'Notification of disruption to studies' and request an extension. The online form will ask you to provide evidence of the disruption.

Marks will be deducted for late submissions in the absence of an approved extension. Marks will be deducted at the rate of 10% of the available marks per day.

Returning Assessment Tasks

1. In-class test / mid-semester test: Each test will be returned to the student the following week during tutorial time. The tutor will discuss the correct responses during this class

2. Assignment: This will be returned within 3 weeks of submission. Feedback will be given in the form of turnitin commentary and rubric descriptors.

3. CHIR604 Chiropractic Assessment: Feedback will be provided via turnitin in the form of commentary and rubric descriptors.

4. Examination: Papers will not be returned. Marks will be incorporated into the final unit grade. Students can request a consultation to receive final examination feedback.

Assessment Tasks

Name	Weighting	Hurdle	Due
In class tests	10%	No	Ongoing. Weeks 4, 6, 9, 11, 13
Assignment	15%	No	13th of April
Mid-semester examination	20%	No	3rd of May
Chiropractic Assessment	5%	No	Week 13
Final examination	50%	No	University examination period

In class tests

Due: **Ongoing. Weeks 4, 6, 9, 11, 13**
Weighting: **10%**

Five in-class tests will be conducted within the assigned tutorial time, during weeks 4, 6, 9, 11 & 13. (5 tests total). Each test will be of 10 minutes duration, and cover material the has been delivered in lectures and tutorials.

On successful completion you will be able to:

- Name the range of pathologies that can occur in each of the following systems: Cardiovascular, Respiratory, Lymphatic, Haematopoietic, Endocrine, Immune, Digestive, Urinary and Reproductive.
- Name and define the common symptoms and signs that are associated with diseases of the body systems named above.
- Describe the aetiology, epidemiology, pathogenesis and clinical manifestations for each disease studied.
- For each disease studied, explain the relationship between its aetiology, pathogenesis and clinical manifestations.
- Differentiate between diseases on the basis of aetiology, pathogenesis, epidemiology and clinical manifestations.
- Explain the pathophysiological processes which can alter an individual's health status.
- Explain the multifactorial nature in 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.

Assignment

Due: **13th of April**
Weighting: **15%**

This is a written assignment that will explore students' understanding of the pathophysiology of a common condition.

On successful completion you will be able to:

- For each disease studied, explain the relationship between its aetiology, pathogenesis and clinical manifestations.
- Apply knowledge of anatomy, physiology, biochemistry and basic pathology, to develop the likely mode of progression of the diseases studied in this unit.

Mid-semester examination

Due: **3rd of May**
Weighting: **20%**

This will cover the content of the first half of the semester, Weeks 1-6. Questions will be in short answer format. The Mid-semester examination will be conducted in Week 8 at the start of the lecture on the 3rd of May at 11am (First lecture after Mid-Sem break).

On successful completion you will be able to:

- Name the range of pathologies that can occur in each of the following systems: Cardiovascular, Respiratory, Lymphatic, Haematopoietic, Endocrine, Immune, Digestive, Urinary and Reproductive.
- Name and define the common symptoms and signs that are associated with diseases of the body systems named above.
- Describe the aetiology, epidemiology, pathogenesis and clinical manifestations for each disease studied.
- For each disease studied, explain the relationship between its aetiology, pathogenesis and clinical manifestations.
- Differentiate between diseases on the basis of aetiology, pathogenesis, epidemiology and clinical manifestations.
- Explain the pathophysiological processes which can alter an individual's health status.
- Explain the multifactorial nature in 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.

Chiropractic Assessment

Due: **Week 13**
Weighting: **5%**

In this turnitin submission, chiropractic students will demonstrate sound knowledge and understanding of the pathology a particular disease studied in this unit.

On successful completion you will be able to:

- Differentiate between diseases on the basis of aetiology, pathogenesis, epidemiology and clinical manifestations.
- Explain the pathophysiological processes which can alter an individual's health status.
- Explain the multifactorial nature in the development of disease states.

Final examination

Due: **University examination period**
Weighting: **50%**

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 range of pathologies that can occur in each of the following systems: Cardiovascular, Respiratory, Lymphatic, Haematopoietic, Endocrine, Immune, Digestive,

Urinary and Reproductive.

- Name and define the common symptoms and signs that are associated with diseases of the body systems named above.
- Describe the aetiology, epidemiology, pathogenesis and clinical manifestations for each disease studied.
- For each disease studied, explain the relationship between its aetiology, pathogenesis and clinical manifestations.
- Differentiate between diseases on the basis of aetiology, pathogenesis, epidemiology and clinical manifestations.
- Explain the pathophysiological processes which can alter an individual's health status.
- Explain the multifactorial nature in 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.

Delivery and Resources

Classes

Delivery mode

It will comprise:

1. A 2 hour lecture per week, weeks 1-13

2. A 2 hour tutorial per week, weeks 2-13

3. 4-5 hours per week self instructional learning, set readings from the text and exercises on lecture topics

Required and Recommended Texts and/or Materials

Core:

1. Unit workbook for HLTH316 / CHIR604

2. J Craft et al. (2011) Understanding Pathophysiology, Mosby OR K L McCance & S E Heuther. (2010) Pathophysiology. The Biological Basis for Disease in Adults and Children. Mosby

Highly recommended: A medical dictionary (This will be useful for all health science units)

Technology Used and Required

Unit web page:

The URL of the HLTH316 / CHIR604 iLearn site is: https://ilearn.mq.edu.au/

You will be asked for a username and password. 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/

Recommended web sites:

See ilearn

Changes made since last offering

The mid-semester examination has been added since last offering. The mid-semester examination gives students exposure to the style of short-answer questions that are used in the final exam.

Unit Schedule

Unit Schedule

Week	Date (week commencing)	Topic	Assessment
1	26th February	Lecture 1 Introduction to course Disorders of the Cardiovascular System 1	
2	5th March	Tutorial 1 Disorders of the Cardiovascular System 1 --- Lecture 2 Disorders of the Cardiovascular System 2	
3	12th March	Tutorial 2 Disorders of the Cardiovascular System 2 --- Lecture 3 Disorders of the Lymphoid and Haematopoietic System 1	

4	19th March	Tutorial 3 Disorders of the Lymphoid and Haematopoietic System 1 --- Lecture 4 Disorders of the Lymphoid and Haematopoietic System 2	Online quiz 1 (Cardiovascular system disorders) (2%)
5	26th March	Tutorial 4 Disorders of the Lymphoid and Haematopoietic System 2 --- Lecture 5 Disorders of the Endocrine System 1	
6	3rd April	Tutorial 5 Disorders of the Endocrine System 1 --- Lecture 6 Disorders of the Endocrine System 2	Online quiz 2 (Lymphoid and Haematopoietic System disorders) (2%)
7	9th April	Tutorial 6 Disorders of the Endocrine System 2 --- Lecture 7 Disorders of the Digestive System 1	Assignment (14%) Due Thursday 13th April by midnight - Through iLearn - turnitin
Recess		Recess Tuesday 16th April until Friday 27th April	
8	30th April	Tutorial 7 Disorders of the Digestive System 1 --- Lecture 8 Disorders of the Digestive System 2	Mid-semester examination (20%) - Thursday 3rd May in the lecture theatre Y3A-212 at 11am, The content that will be in the exam is everything in Weeks 1-7 (Everything before the break)
9	7th May	Tutorial 8 Disorders of the Digestive System 2 --- Lecture 9 Disorders of the Digestive System 3	Online quiz 3 (Endocrine disorders) (2%)

10	14th May	Tutorial 9 Disorders of the Digestive System 3 _____ Lecture 10 Disorders of the Respiratory System 1	
11	21st May	Tutorial 10 Disorders of the Respiratory System 1 _____ Lecture 11 Disorders of the Respiratory System 2	Online quiz 4 (Digestive system disorders) (2%)
12	28th May	Tutorial 11 Disorders of the Respiratory System 2 _____ Lecture 12 Disorders of the Urinary and Reproductive Systems	
13	4th June	Tutorial 12 Disorders of the Urinary and Reproductive Systems _____ Lecture 13 Disorders of the Female Reproductive System Revision	Online quiz 5 (Respiratory system disorders, Urinary system disorders) (2%) Chiropractic Essay
Examination period		12th June - 30th June	Final examination (50%)

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). 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). 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 (https://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 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.

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.

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.

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) 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

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.

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:

Assessment task

- Chiropractic Assessment

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:

Assessment task

- Chiropractic Assessment

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

- Name the range of pathologies that can occur in each of the following systems: Cardiovascular, Respiratory, Lymphatic, Haematopoietic, Endocrine, Immune, Digestive, Urinary and Reproductive.
- Name and define the common symptoms and signs that are associated with diseases of the body systems named above.
- Describe the aetiology, epidemiology, pathogenesis and clinical manifestations for each disease studied.
- For each disease studied, explain the relationship between its aetiology, pathogenesis and clinical manifestations.
- Differentiate between diseases on the basis of aetiology, pathogenesis, epidemiology and clinical manifestations.
- Explain the pathophysiological processes which can alter an individual's health status.

- Explain the multifactorial nature in 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.

Assessment tasks

- In class tests
- Assignment
- Mid-semester examination
- Final examination

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

- For each disease studied, explain the relationship between its aetiology, pathogenesis and clinical manifestations.
- Differentiate between diseases on the basis of aetiology, pathogenesis, epidemiology and clinical manifestations.
- Explain the pathophysiological processes which can alter an individual's health status.
- Explain the multifactorial nature in 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.

Assessment tasks

- In class tests
- Assignment
- Mid-semester examination
- Chiropractic Assessment
- Final examination

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

- Describe the aetiology, epidemiology, pathogenesis and clinical manifestations for each disease studied.
- For each disease studied, explain the relationship between its aetiology, pathogenesis and clinical manifestations.
- Differentiate between diseases on the basis of aetiology, pathogenesis, epidemiology and clinical manifestations.
- Explain the pathophysiological processes which can alter an individual's health status.
- Explain the multifactorial nature in 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.

Assessment tasks

- In class tests
- Assignment
- Mid-semester examination
- Chiropractic Assessment
- Final examination

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

- Describe the aetiology, epidemiology, pathogenesis and clinical manifestations for each disease studied.
- For each disease studied, explain the relationship between its aetiology, pathogenesis and clinical manifestations.
- Differentiate between diseases on the basis of aetiology, pathogenesis, epidemiology and clinical manifestations.

- Explain the pathophysiological processes which can alter an individual's health status.
- Explain the multifactorial nature in 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.

Assessment tasks

- In class tests
- Assignment
- Mid-semester examination
- Chiropractic Assessment
- Final examination

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:

Assessment task

- Chiropractic Assessment

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:

Assessment task

- Chiropractic Assessment

Grading

Achievement of grades will be based on the following criteria:

Grade	

High Distinction (85-100)	**A minimum of 60% achievement in the class tests, a minimum of 60% achievement in the examination, PLUS a minimum 85% total raw mark**
Distinction (75-84)	**A minimum of 60% achievement in the class tests, a minimum of 60% achievement in the examination, PLUS a minimum 75% total raw mark**
Credit (65-74)	**A minimum of 50% achievement in the class tests, a minimum of 50% achievement in the examination, PLUS a minimum 65% total raw mark**
Pass (50-64)	**A minimum of 50% achievement in the class tests, a minimum of 50% achievement in the examination, PLUS a minimum 50% total raw mark**
Fail (< 50)	**Less than 50% achievement in the examination, or less than 50% total raw mark.**

NOTE: Raw mark vs SNG

"The Standard Numerical Grade (SNG) is the number that is associated with the grade (high distinction, distinction, credit and so on) that a student is awarded. It is called a grade as it does not represent the raw marks, it reflects where within the grading structure the student sits."

http://www.mq.edu.au/glossary/term/StandardisedNumericalGrade

It is NOT necessarily the same as your RAW mark, which represents the total of your marks for each assessment task.

High Distinction: provides consistent evidence of deep and critical understanding in relation to the learning outcomes. There is substantial originality and insight in identifying, generating and communicating competing arguments, perspectives or problem solving approaches; critical evaluation of problems, their solutions and their implications; creativity in application.

Distinction: provides evidence of integration and evaluation of critical ideas, principles and theories, distinctive insight and ability in applying relevant skills and concepts in relation to learning outcomes. There is demonstration of frequent originality in defining and analysing issues or problems and providing solutions; and the use of means of communication appropriate to the discipline and the audience.

Credit: provides evidence of learning that goes beyond replication of content knowledge or skills relevant to the learning outcomes. There is demonstration of substantial understanding of fundamental concepts in the field of study and the ability to apply these concepts in a variety of contexts; plus communication of ideas fluently and clearly in terms of the conventions of the discipline.

Pass: provides sufficient evidence of the achievement of learning outcomes. There is demonstration of understanding and application of fundamental concepts of the field of study; and communication of information and ideas adequately in terms of the conventions of the discipline. The learning attainment is considered satisfactory or adequate or competent or

capable in relation to the specified outcomes.

Fail: does not provide evidence of attainment of all learning outcomes.

There is missing or partial or superficial or faulty understanding and application of the fundamental concepts in the field of study; and incomplete, confusing or lacking communication of ideas in ways that give little attention to the conventions of the discipline.