



HLTH316

Principles in Health and Disease 2

S1 Day 2014

Chiropractic

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General Information

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Credit points

3

Prerequisites

39cp including HLTH215

Corequisites

Co-badged status

Unit description

This unit provides students with further opportunity to explore the relationship between health and disease, from both the biological and psychological 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 the 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.

Assessment Tasks

Name	Weighting	Due
<u>In class tests</u>	30%	Ongoing
<u>Assignment</u>	20%	April 28
<u>Final examination</u>	50%	University examination period

In class tests

Due: **Ongoing**

Weighting: **30%**

5 of the quizzes will be conducted within the assigned tutorial time, during weeks 4, 6, 8, 10 and 12. (5 quizzes total). Each test will be of 10-15 minutes duration, and cover the material from one topic.

Quiz 6 will be available in week 13 via ilearn (due to the public holiday affecting the Monday tutorials).

Your total mark for the quizzes will be calculated from the best 5 quiz results. An overall raw mark of at least

60% is needed to satisfy the requirements of the unit.

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: **April 28**

Weighting: **20%**

A mark of 50% is needed to satisfy the requirements of the unit. Students who do not achieve this mark will be required to resubmit their assignment.

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.

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. A minimum of 50% in the examination is required to satisfy the requirements of the unit.

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 1 hour lecture per week, weeks 1-13
3. A 2 hour tutorial per week, weeks 2-13
4. 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,
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 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

There are no changes since the 2013 offering.

Unit Schedule

Week	Date (week commencing)	Topic	Assessment
1	3rd March	Lecture 1A Introduction to course Disorders of the Digestive System Lecture 1B Disorders of the Digestive System	

2	10th March	Tutorial 1 Disorders of the Digestive System Lecture 2A Disorders of the Digestive System Lecture 2B Disorders of the Digestive System	
3	17 th March	Tutorial 2 Disorders of the Digestive System Lecture 3A Disorders of the Digestive System Lecture 3B Disorders of the Digestive System	

4	24 th March	Tutorial 3 Disorders of the Digestive System Lecture 4A Disorders of the Endocrine System Lecture 4B Disorders of the Endocrine System	Test 1 (Digestive system disorders)
5	31st March	Tutorial 4 Disorders of the Endocrine System Lecture 5A Disorders of the Endocrine System Lecture 5B Disorders of the Endocrine System	

6	7th April	Tutorial 5 Disorders of the Endocrine System Lecture 6A Disorders of the Cardiovascular System Lecture 6B Disorders of the Cardiovascular System	Test 2 (Endocrine system disorders)
		RECESS	
7	28 th April	Tutorial 6 Disorders of the Cardiovascular System Lecture 7A Disorders of the Cardiovascular System Lecture 7B Disorders of the Cardiovascular System	

8	5th May	<p>Tutorial 7</p> <p>Disorders of the Cardiovascular System</p> <p>Lecture 8A</p> <p>Disorders of the Lymphoid and Haematopoietic System</p> <p>Lecture 8B</p> <p>Disorders of the Lymphoid and Haematopoietic System</p>	Test 3 (CVS disorders)
9	12th May	<p>Tutorial 8</p> <p>Disorders of the Lymphoid and Haematopoietic System</p> <p>Lecture 9A</p> <p>Disorders of the Lymphoid and Haematopoietic System</p> <p>Lecture 9B</p> <p>Disorders of the Respiratory System</p>	

<p>10</p>	<p>19th May</p>	<p>Tutorial 9 Disorders of the Lymphoid and Haematopoietic System</p> <p>Lecture 10A Disorders of the Respiratory System</p> <p>Lecture 10B Disorders of the Respiratory System</p>	<p>Test 4 (Lymphoid and Haematopoietic disorders)</p>
<p>11</p>	<p>26th May</p>	<p>Tutorial 10 Disorders of the Respiratory System</p> <p>Lecture 11A Disorders of the Respiratory System</p> <p>Lecture 11B Disorders of the Urinary and Reproductive Systems</p>	
<p>12</p>	<p>2nd June</p>	<p>Tutorial 11 Disorders of the Respiratory System.</p> <p>Lecture 12A Disorders of the Urinary and Reproductive Systems</p> <p>Lecture 12B Disorders of the Urinary and Reproductive Systems</p>	<p>Test 5 (Respiratory system disorders)</p>

13	9th June	Lecture 13A Disorders of the Reproductive System Lecture 13B Revision	Test 6 (Urinary & Reproductive system disorders - online)
Examination period			Final examination

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

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

Disruption to Studies Policy 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/

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://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

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
- 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
- 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
- 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.
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Assessment tasks

- In class tests
- Assignment
- Final examination

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 50% achievement in the examination, PLUS a minimum 90% total raw mark
Distinction (75-84)	A minimum of 60% achievement in the class tests, a minimum of 50% achievement in the examination, PLUS a minimum 80% total raw mark
Credit (65-74)	A minimum of 60% achievement in the class tests, a minimum of 50% achievement in the examination, PLUS a minimum 70% total raw mark
Pass (50-64)	A minimum of 60% achievement in the class tests, a minimum of 50% achievement in the examination, PLUS a minimum 60% total raw mark
Fail (< 50)	Less than 60% achievement in the class tests, and/or less than 50% achievement in the examination, or less than 60% 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.