

**MACQUARIE UNIVERSITY
DEPARTMENT OF HEALTH & CHIROPRACTIC
DIVISION OF ENVIRONMENTAL & LIFE SCIENCES
HLTH 207 UNIT OUTLINE
PATHOLOGY 1**

Year and Semester:	2008, Semester 1
Unit convenor:	Dr Robyn Beirman
Prerequisites:	HLTH 107, HLTH 132 or CHIR 133

Students in this unit should read this unit outline carefully at the start of semester. It contains important information about the unit. If anything in it is unclear, please consult one of the teaching staff in the unit.

ABOUT THIS UNIT

This unit aims to bridge the gap between the basic sciences and the clinical sciences. From a basic understanding of normal structure and function, the student is introduced to the causes and effects of disturbances to 'normal'. The mechanisms by which disease may develop is then explored, with consideration of both hereditary and environmental factors. The links between disease mechanisms and their clinical manifestations is highlighted. The interactions between the mind and the body, and the possible role of the mind in the development of disease are also discussed.

Focus is also placed on facilitating the students' skills in being able to derive new information from pre-existing knowledge, as a consequence of learning to access the literature, as well as by the development of a solid foundation in pathophysiological processes.

It is a 2 credit point unit which involves a one hour lecture, a compulsory 2 hour tutorial, and self-instructional study.

TEACHING STAFF

Unit Convenor

Robyn Beirman MB.BS. (Hons). MHPEd	E5A Rm 348 98506392 email rbeirman@els.mq.edu.au
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Teaching staff

Robyn Beirman	E5A Rm 348 98506392 email rbeirman@els.mq.edu.au
Suzanne Saks	
Jane Brooks	
Jana Kalokay	
Sara Brown	

CLASSES

- 1 x 1 hour lecture
- 1 x 2 hour tutorial. A minimum of 80% attendance is required as part of the course requirements.

Due to Easter, there will be no pathology tutorials on the following dates:

Friday 21st March

Monday 24th March

Tuesday 25th March

Wednesday 26th March

Please note that tutorials will be scheduled for Friday, 28th March.

REQUIRED AND RECOMMENDED TEXTS AND/OR MATERIALS

- **Core:**
 1. Unit workbook for HLTH 207
 2. Porth: Essentials of Pathophysiology 2nd ed. Lippincott Williams and Wilkins, 2007
This text will also be used in HLTH 208.
- **Highly recommended:**
 1. A medical dictionary (This will be useful for all health science units)
 2. Prezbindowski K. Study Guide to accompany Porth's Essentials of Pathophysiology: Concepts of Altered Health States. Lippincott Williams and Wilkins, 2007
- **Recommended web sites:**

<http://www-medlib.med.utah.edu/WebPath/>

This is the web site which is the source of many of the pathological images found on the web site.

<http://www.dermis.net/doia>

<http://www.mic.ki.se/Diseases/index.html>

<http://www.med.uiuc.edu/PathAtlasf/titlePage.html>

<http://pathweb.uchc.edu/>

http://www.kumc.edu/instruction/medicine/pathology/ed/home_page.html

UNIT WEB PAGE

The web page for this unit can be found at: www.chiro.mq.edu.au and following the links for Undergraduate students. You will need a log in for access to any material.

LEARNING OUTCOMES

By the conclusion of this unit, students should be able to:

1. Demonstrate an understanding of common terminology associated with the study of disease.
2. Describe the different concepts related to the causes of disease.
3. Describe the variety of responses the body may exhibit as a result of injury.
4. Explain the processes of tissue healing.
5. Describe the effects of stressors on vascular and other fluid compartments of the body.
6. Describe the range of growth and differentiation disorders and their characteristics.
7. Describe the influence of environmental and hereditary factors in the development of disease.
9. Describe the alterations that can occur to our normal immune response:
 - Hypersensitivity reactions
 - Immunodeficiency states
 - Auto-immune disorders
10. Describe the homeostatic mechanisms which are utilised when the body is stressed.
11. Describe and explain relevant issues related to the epidemiological aspects of disease.
12. Explain the major concepts in Psychoneuroimmunology.
13. Describe the nature of common haemodynamic disturbances.
14. Describe common traumatic lesions of the musculoskeletal system and the skin

In addition to the discipline-based learning objectives, all academic programs at Macquarie seek to develop students' generic skills in a range of areas. One of the aims of this unit is that students develop their skills in the following:

1. Academic skills:
 - Able to become more reflective
 - Able to improve cognitive/reasoning skills

- Able to problem solve
 - Able to think critically and independently
 - Able to apply and adapt knowledge to the real world
 - Able to understand data collection instruments
 - Able to analyse / interpret and work with data
 - Able to critique
 - Able to improve creative thinking
 - 2. Information technology / literacy
 - General computer literacy
 - Able to use the internet
 - Able to use library resources
 - 3. Self-management skills
 - Able to work independently
 - Able to plan and organize learning activities
 - Able to become more self aware
 - 4. Communication skills
 - Improve general literacy skills
 - Improve language skills (particularly for international students)
 - Improve general discussion skills
 - Improve listening and comprehension skills
 - Able to become flexible and open to the ideas of others
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TEACHING AND LEARNING STRATEGY

This unit is characterised by a moderate degree of flexibility. It incorporates a variety of learning tools and media. It will comprise:

- 1 hour lecture per week, weeks 1-13
- 2 hour tutorial per week , weeks 1-13
- 1-2 hours per week self instructional learning
set readings from the text
exercises on lecture topics

Week	Topic
1	Core concepts in pathology Concepts of Health, Disease and Illness Terminology The study of Pathology
2	Cell injury Responses of the cell to injury Cell death
3	Neoplasia
4	Haemodynamic disturbances 1: Overview of haemodynamic disturbances Edema Disturbances to haemostasis Arteriosclerosis
5	Easter – no class
6	Haemodynamic disturbances 2: Arteriosclerosis Thrombosis Embolism Infarction
7	Haemodynamic disturbances 3: Alterations in blood pressure Aneurysms
8	Infectious processes
9	The Inflammatory response Tissue repair
10	Overview of the immune response Stress Psychoneuroimmunology
11	Immunopathology
12	Trauma
13	Revision

RELATIONSHIP BETWEEN ASSESSMENT AND LEARNING OUTCOMES

- Assessment Tasks

1. Weekly quizzes: This will contribute 40% to the total unit mark
2. Examination: This will contribute 60% to the total unit mark

1. Quizzes

These will be conducted within the assigned tutorial time, during weeks 2-13. (12 quizzes total)

Each quiz will be of 10 minutes duration, and cover the material covered the previous week. Your total mark for the quizzes will be calculated from the best 10 quiz results. Tutorials scheduled at different times will have DIFFERENT questions. If you miss your assigned tutorial in any week, you may request attendance at an alternative tutorial, through written request and appropriate documentation to the unit convenor. This allowance may be used on a maximum of 2 occasions.

2. Final examination

This will be conducted during the university exam time, and will cover the content of the entire semester. Questions will include Multiple choice questions, True and False and short answer questions.

Satisfactory completion of this unit requires students to attain a minimum total semester mark of 60%, and not less than 50% in each component of the assessment. These refer to the RAW marks – not the final result. Please refer to the University Policy on Grading, found below.

Students who achieve a High Distinction will have been able to demonstrate exceptional knowledge, understanding and application of pathological concepts.
Students who achieve a Distinction will have been able to demonstrate excellent knowledge, understanding and application of pathological concepts.
Students who achieve a Credit will have been able to demonstrate above average knowledge, understanding and application of pathological concepts.
Students who achieve a Pass will have been able to demonstrate competency in the knowledge, understanding and application of pathological concepts.
Students who achieve a Pass Conceded will have been able to only demonstrate marginal knowledge, understanding and application of pathological concepts.
Students who receive a Fail grade will have been unable to demonstrate adequate knowledge, understanding and application of pathological concepts.

Examinations 2008

The University Examination period in for First Half Year **2008 is from Wednesday 11 June to Friday 27 June 2008.**

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.

<http://www.timetables.mq.edu.au/exam>

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 consider applying for Special Consideration. Information about unavoidable disruption and the special consideration process is available at

<http://www.reg.mq.edu.au/Forms/APSCon.pdf>

If a Supplementary Examination is granted as a result of the Special Consideration process the examination will be scheduled after the conclusion of the official examination period. (Individual Divisions may wish to signal when the Division's Supplementaries are normally scheduled.)

You are advised that it is Macquarie University policy not to set early examinations for individuals or groups of students. All students are expected to ensure that they are available until the end of the teaching semester, that is the final day of the official examination period.

PLAGIARISM

The University defines plagiarism in its rules: "Plagiarism involves using the work of another person and presenting it as one's own." Plagiarism is a serious breach of the University's rules and carries significant penalties. You must read the University's practices and procedures on plagiarism. These can be found in the *Handbook of Undergraduate Studies* or on the web at: <http://www.student.mq.edu.au/plagiarism/>

The policies and procedures explain what plagiarism is, how to avoid it, the procedures that will be taken in cases of suspected plagiarism, and the penalties if you are found guilty. Penalties may include a deduction of marks, failure in the unit, and/or referral to the University Discipline Committee.

UNIVERSITY POLICY ON GRADING

Academic Senate has a set of guidelines on the distribution of grades across the range from fail to high distinction. Your final result will include one of these grades plus a standardised numerical grade (SNG).

On occasion your raw mark for a unit (i.e., the total of your marks for each assessment item) may not be the same as the SNG which you receive. Under the Senate guidelines, results may be scaled to ensure that there is a degree of comparability across the university, so that units with the same past performances of their students should achieve similar results.

It is important that you realise that the policy does not require that a minimum number of students are to be failed in any unit. In fact it does something like the opposite, in requiring examiners to explain their actions if more than 20% of students fail in a unit.

The process of scaling does not change the order of marks among students. A student who receives a higher raw mark than another will also receive a higher final scaled mark.

For an explanation of the policy see

<http://www.mq.edu.au/senate/MQUonly/Issues/Guidelines2003.doc> or
<http://www.mq.edu.au/senate/MQUonly/Issues/detailedguidelines.doc>.

STUDENT SUPPORT SERVICES

Macquarie University provides a range of Academic Student Support Services. Details of these services can accessed at <http://www.student.mq.edu.au>.