



The University of Southern Queensland

Course specification

Description: Physiology and Pathophysiology 2						
Subject	Cat-nbr	Class	Term	Mode	Units	Campus
NSC	3630	44396	2, 2005	EXT	1.00	Toowoomba

Academic group:	FOSCI
Academic org:	FOS004
Student contribution band:	2
ASCED code:	010913

STAFFING

Examiner: Ron Atkinson
Moderator: Andrew Hoey

REQUISITES

Pre-requisite: NSC3620

RATIONALE

This course serves to provide more advanced knowledge of the physiology and pathophysiology of the nervous, musculoskeletal, cutaneous, endocrine and reproductive systems and the pathophysiological bases for shock, trauma and ageing. It is intended as a refresher course for registered nurses and as a basic pathophysiology course for others who may have an interest in health sciences.

SYNOPSIS

The course examines the physiology and pathophysiology of the nervous, musculoskeletal, cutaneous, endocrine and reproductive systems. It also considers the pathological processes involved in inflammation, trauma, healing and ageing.

OBJECTIVES

On successful completion of this course students will be able to:

1. describe the normal functioning of the nervous system, musculoskeletal system, endocrine and reproductive systems and the skin and internal linings;
2. explain the known aetiology, pathogenesis and clinical course of the more important diseases that affect these systems;
3. describe the nature, causes, and consequences of physical trauma and the inflammatory and healing responses; and
4. list the disorders commonly associated with old age and summarise their aetiology.

TOPICS

	Description	Weighting (%)
1.	PHYSIOLOGY AND PATHOPHYSIOLOGY OF THE NERVOUS SYSTEM A review of the functional anatomy of the human nervous system and its major disorders.	25.00
2.	MUSCULOSKELETAL PHYSIOLOGY AND PATHOPHYSIOLOGY A review of the physiology and disease states associated with the skeletal muscles; growth, repair and disease states seen in the bones, cartilage and soft connective tissues, including adipose tissue.	12.00
3.	PHYSIOLOGY AND PATHOPHYSIOLOGY OF THE SKIN AND INTERNAL LININGS A review of the construction, maintenance and disease states associated with the skin and internal linings.	8.00
4.	PHYSIOLOGY AND PATHOPHYSIOLOGY OF THE HUMAN ENDOCRINE SYSTEMS A review of the hormone-secreting tissues of the human body and of the major diseases associated with them.	15.00
5.	REPRODUCTIVE PHYSIOLOGY AND PATHOPHYSIOLOGY A review of the physiology of the male and female reproductive systems; puberty and the menopause; conception, pregnancy and post-natal physiology and pathophysiology.	25.00
6.	TRAUMA, HEALING, AND THE AGEING PROCESS A review of the processes of tissue trauma, inflammation, and healing; pathological reactions to trauma; degenerative changes associated with ageing.	15.00

TEXT and MATERIALS required to be PURCHASED or ACCESSED

ALL textbooks and materials are available for purchase from USQ BOOKSHOP (unless otherwise stated). Orders may be placed via secure internet, free fax 1800642453, phone 07 46312742 (within Australia), or mail. Overseas students should fax +61 7 46311743, or phone +61 7 46312742. For costs, further details, and internet ordering, use the 'Textbook Search' facility at <http://bookshop.usq.edu.au> click 'Semester', then enter your 'Course Code' (no spaces).

McCance, KL & Huether, SE 2002, *Pathophysiology: The Biologic Basis for Disease in Adults and Children*, 4th edn, CV Mosby, St Louis.

REFERENCE MATERIALS

Reference materials are materials that, if accessed by students, may improve their knowledge and understanding of the material in the course and enrich their learning experience.

Braunwald, E (ed) 2001, *Harrison's Principles of Internal Medicine*, 15th edn, McGraw-Hill, New York, Vol 1&2.

Copstead, LC & Banasik, JL 2000, *Pathophysiology: Biological and Behavioural Perspectives*, 2nd edn, WB Saunders Company, Philadelphia.

Cotran, RS, Kumar, V & Collins, T 1999, *Robbins Pathologic Basis of Disease*, 6th edn, WB Saunders Company, Philadelphia.

Cunningham, FG et al 2001, *Williams Obstetrics*, 21th edn, McGraw-Hill, New York.

Marieb, E 2004, *Human Anatomy and Physiology*, 6th edn, Benjamin/Cummings, California.

Porth, CM 2002, *Pathophysiology: Concepts of Altered Health States*, 6th edn, Lippincott, Philadelphia.

Tierney, LM, McPhee, SJ & Papadakis, MA 2000, *Current Medical Diagnosis and Treatment 2001*, McGraw-Hill, New York.

STUDENT WORKLOAD REQUIREMENTS

ACTIVITY	HOURS
Assessment	20.00
Directed Study	46.00
Examinations	2.00
Private Study	97.00

ASSESSMENT DETAILS

Description	Marks out of	Wtg(%)	Due date
ASSIGNMENT 1	20.00	20.00	26 Aug 2005
ASSIGNMENT 2	20.00	20.00	07 Oct 2005
2HR CLOSED EXAMINATION	75.00	60.00	END S2 (see note 1)

NOTES

1. Examination dates will be available during the semester. Please refer to the examination timetable when published.

IMPORTANT ASSESSMENT INFORMATION

- 1 Attendance requirements:
There are no attendance requirements for this course. However, it is the students' responsibility to study all material provided to them or required to be accessed by them to maximise their chance of meeting the objectives of the course and to be informed of course-related activities and administration.
- 2 Requirements for students to complete each assessment item satisfactorily:
To complete each assessment satisfactorily, students must obtain at least 50% of the marks available.
- 3 Penalties for late submission of required work:
If students submit assignments after the due date without prior approval then a penalty of 5% of the total marks available for the assignment will apply for each working day late.
- 4 Requirements for student to be awarded a passing grade in the course:

To be assured of a passing grade, students must demonstrate, via the summative assessment items, that they have achieved the required minimum standards in relation to the objectives of the course by obtaining at least 50% of the total weighted marks available for all summative assessment items.

- 5 Method used to combine assessment results to attain final grade:
The final grades for students will be assigned on the basis of the weighted aggregate of the marks obtained for the summative assessment items in the course.
- 6 Examination information:
In a Closed Examination, candidates are allowed to bring only writing and drawing instruments into the examination.
- 7 Examination period when Deferred/Supplementary examinations will be held:
Any Deferred or Supplementary examinations for this course will be held during the examination period at the end of the Summer Term following this offering of the course.
- 8 University Regulations:
Students should read USQ Regulations 5.1 Definitions, 5.6. Assessment, and 5.10 Academic Misconduct for further information and to avoid actions which might contravene University Regulations. These regulations can be found at the URL <http://www.usq.edu.au/corporateservices/calendar/part5.htm> or in the current USQ Handbook.

ASSESSMENT NOTES

- 9 The due date for an assignment is the date by which a student must despatch the assignment to the USQ. The onus is on the student to provide proof of the despatch date, if requested by the Examiner.
- 10 Students must retain a copy of each item submitted for assessment. If requested, students will be required to provide a copy of assignments submitted for assessment purposes. Such copies should be despatched to USQ within 24 hours of receipt of a request being made.
- 11 The examiner may grant an extension of the due date of an assignment in extenuating circumstances.
- 12 The Faculty will normally only accept assessments that have been written, typed or printed on paper-based media.
- 13 The Faculty will NOT accept submission of assignments by facsimile.
- 14 Students who do not have regular access to postal services or who are otherwise disadvantaged by these regulations may be given special consideration. They should contact the examiner of the course to negotiate such special arrangements.
- 15 Students who have undertaken all of the required assessments in a course but who have failed to meet some of the specified objectives of a course within the normally prescribed time may be awarded a temporary grade: namely IM (Incomplete - Make up), IS (Incomplete - Supplementary exam) or ISM (Incomplete - Make up and Supplementary exam). These grades will only be awarded when, in the opinion of the examiner, a student will be able to achieve the remaining objectives of the course after a period of non directed personal study.
- 16 Students who, for medical, family/personal, or employment-related reasons, are unable to complete an assignment or to sit for an examination at the scheduled time may apply to defer an assessment in a course. Such a request must be accompanied by appropriate supporting documentation. One of the following temporary grades may be awarded IDS (Incomplete - Deferred Examination; IDM (Incomplete Deferred Make-up); IDB (Incomplete - Both Deferred Examination and Deferred Make-up).