Description: Anatomy and Physiology

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<th>Subject</th>
<th>Cat-Nbr</th>
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<th>Term</th>
<th>Mode</th>
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Academic Group: FOSCI
Academic Org: FOS002
HECS Band: 2
ASCED Code: 010913

STAFFING
Examiner: Judy Craft
Moderator: Andrew Hoey

RATIONALE
A basic knowledge and understanding of the structure and functioning of the cells, tissues and organs of healthy people is essential for subsequent studies in pharmacology and pathophysiology. This course provides the foundation knowledge required to integrate and apply clinical nursing practices.

SYNOPSIS
A body systems approach is used in this course to study the essential anatomy and physiology of healthy people. Body systems covered in this course include cardiovascular system, blood, lymphatic and immune systems, respiratory system, digestive system, urinary system, integumentary system, musculoskeletal system, and an introduction to the nervous and endocrine systems.

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

- explain the relevance of the concept of homeostasis to the human body;
- describe the structure and function of body cells and tissues;
- demonstrate knowledge and an understanding of the structure and function of each of the body systems in healthy people;
- demonstrate a basic understanding of the integration of body functions to maintain the constancy of the internal environment.
TOPICS

Description Weighting (%)

1. CELLS, TISSUES & HOMEOSTASIS The various types of cells found in the body and their functions. The integration of cells, tissues and organs. Homeostasis and homeostatic control. 4.00

2. NOMENCLATURE Anatomical terms and frames of reference. 2.00

3. CARDIOVASCULAR SYSTEM Anatomy and physiology of the heart and blood vessels. Controls of cardiovascular function. 12.00

4. BLOOD & THE IMMUNE SYSTEM Major components, functions and formation of blood. Outline of immune function. 12.00

5. RESPIRATORY SYSTEM Respiratory system anatomy. Gas exchange in the lungs and body tissues. Mechanics and controls of breathing. 10.00


7. DIGESTIVE SYSTEM Anatomy of the digestive tract and associated organs. Digestion and absorption. 10.00

8. NERVOUS SYSTEM Gross anatomy of the central and peripheral divisions of the nervous system. Neuronal structure and physiology. Sensorimotor organisation and integration, and higher mental functions. The special senses. The autonomic nervous system. Nervous system control of body functions. 16.00

9. MUSCULOSKELETAL SYSTEM Anatomy and physiology of the voluntary muscles, bones and joints. 10.00

10. ENDOCRINE SYSTEM Origins and nature of hormones and their actions on cells, tissues and organs. Physiology of the endocrine glands. 6.00

11. REPRODUCTIVE SYSTEM Anatomy and essential physiology of the male and female reproductive systems. Outline of embryonic and foetal anatomy and physiology. 10.00

TEXT and MATERIALS required to be PURCHASED or ACCESSED:

Books can be ordered by fax or telephone. For costs and further details use the 'Book Search' facility at http://bookshop.usq.edu.au by entering the author or title of the text.

Interactive Physiology CD-ROMs.


(Students can either purchase the Human anatomy and physiology textbook alone OR purchase the Human anatomy and physiology textbook and Interactive Physiology CD ROMs as these are shrink wrapped together. The study guide can be purchased separately.)

**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.


**STUDENT WORKLOAD REQUIREMENTS**

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<th>ACTIVITY</th>
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ASSESSMENT DETAILS

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NOTES:
3. Examination dates will be available during the Semester. Please refer to the examination timetable when published.
4. Examination dates will be available during the Semester. Please refer to the examination timetable when published.
5. Examiner will advise more details of the Module on Preaudits and Postaudits.

OTHER REQUIREMENTS
1. Attendance Requirements It is the students' responsibility to participate actively in all classes scheduled for them, and 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 to Complete Satisfactorily Each Assessment Item To complete satisfactorily each of the assignments, students must obtain at least 45% of the mark available for each assignment. To complete satisfactorily the examination of the course, students must obtain at least 45% of the marks available for the examination.
3. Minimum Requirements to Pass the Course To be assured of a pass in this course, students must obtain an overall mark of at least 50%.
4. Grading Final grades for students will be determined by the addition of the marks obtained in each assessment item, weighted as in the Assessment Details.
5. Supplementary and Deferred Examinations Students who do not perform satisfactorily in an examination, may, at the discretion of the Examiner, be granted a supplementary examination. Students will be granted a deferred examination only if they perform satisfactorily in all other assessment items. Any supplementary or deferred examinations for this course will be held during the examination period at the end of semester 3 of the current academic year.
6. Assignments The due date for an assignment is the date by which a student must despatch it to the USQ. The onus is on the student to provide proof of the despatch date, if requested by the Examiner. Students must retain a copy of each item submitted for assessment. This must be produced within 5 days if required by the Examiner. In accordance with University's Policy on Assignments (Regulation 5.6.1), the Examiner of a course may grant an extension of the due date of an
assignment in extenuating circumstances. This policy may be found in the USQ Handbook, the Distance Education Study Guide and the Faculty of Sciences' Orientation Handbook for new on-campus students. All students are advised to study and follow the guidelines associated with this policy. An assignment, submitted after the due date without an extension approved by the Examiner, will attract a penalty of up to a maximum of 20 percent of the assigned mark for each day (or part thereof) that the assignment is late.

Examinations

Candidates should be aware that the University has policies and regulations (Regulation 5.6.2.2) about the use of unfair means and electronic devices in an examination and they should refer to them to determine whether or not actions they intend to take are acceptable to the University. Closed Examination: Candidates are allowed to bring only writing and drawing instruments into the closed examination.