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PHSI 3003 Heart and Circulation

**Teacher/Coordinator:** Dr J. Hoh

**Prerequisite:** Qual Physiology 2002

Prereq Biochemistry (2001 and 2002) or (2101 and 2102) and an additional 8 or more credit points from any Intermediate unit(s) of study in the following subjects: Anatomy and Histology, Biology, Chemistry, Computer Science, Mathematics, Microbiology, Pharmacology, Physics, Physiology, Psychology or Statistics

**Additional information:** Students in the Faculty of Engineering who have completed Physiology 2002 plus at least one other Intermediate course similar to one of the above prerequisites may also be permitted to enrol

**When Offered:** July

**Classes:** 4 lec, 2 tut & 6hprac/wk

**Assessment:** One 3hr exam, spot tests, essays, prac reports, seminar presentations

This unit of study offers an up to date and in depth treatment of the structure and function of the cardiovascular system at the organ system, cellular and molecular levels. There is a particular focus on exercise physiology and the way in which the heart, circulation and muscle contribute to the limits of sporting achievement. The excitability, contractility and energetics of the heart and blood vessels are studied, and the regulation of these organs by local (physical and chemical) factors, hormones and the nervous system are discussed, with emphasis on cellular and molecular mechanisms. At the systemic level, the unit of study deals with short term (neural) mechanisms controlling the blood pressure, and how the system behaves during exercise and other stresses. Long term (hormonal) mechanisms regulating blood pressure via the renal control of extracellular fluid volume, and the pathophysiology of atherosclerosis and hypertension are also discussed.

**Practical Work:**

Lectures are combined with practical laboratory experiments on animals and human subjects.

PHSI 4001 Physiology Honours

**Teacher/Coordinator:** Coordinator Dr J. Hoh

**When Offered:** February

During fourth year, no formal series of lectures is provided but students are given a relevant problem to investigate. This problem usually represents a small facet of one of the major current research projects within the Department, and the students work in collaboration with members of the staff. Students write a thesis embodying the results of their work.

Department of Psychology

Psychology is the study of behaviour. As a study it is approached on a scientific basis, with provision for professional training at the postgraduate level. The research activities of the Department cover almost all of the main branches of the subject.

A normal three year sequence in Psychology is Psychology 1001, 1002, 2001, 2002, 3001 and 3002. Psychology 2101 and 2102 (which together are identical to Psychology 2001) are intended only for students wishing to vary the above sequence for reasons such as mid year entry or failure in 1001.

The units of study available are:

- Psychology 1001 6 credit points
- Psychology 1002 6 credit points
- Psychology 2001 8 credit points

Psychology 2002 8 credit points
- Psychology 2101 4 credit points
- Psychology 2102 4 credit points
- Psychology 3001 12 credit points
- Psychology 3002 12 credit points

In addition, Bachelor of Psychology students must study two or more of the following:

- Psychology 3101 12 credit points
- Psychology 3102 12 credit points
- Psychology 3103 12 credit points
- Psychology 3104 12 credit points

These consist of additional options not chosen by students within Psychology 3001 and 3002.

**Registration and noticeboards**

Students in all years must register during the orientation period. Psychology 1001 students register by going to the Carslaw Building during orientation and collecting a personalised computer generated timetable, which will indicate the lecture times and the tutorial group to which they have been allocated. Further information will be posted at the Enrolment Centre and on the Junior Psychology noticeboard on the 4th Floor of the Griffith-Taylor Building.

Information about registration meetings for Psychology 2001, 2002, 3001 and 3002 students will also be posted at the Enrolment Centre, and on the Departmental noticeboards on the 5th floor of the Griffith-Taylor Building.

**Enquiries**

The main enquiry office of the Department is Room 416, Griffith-Taylor Building (tel. 9351 2872). Staff members available to discuss particular courses may be contacted directly or through this office.

**Honours**

In order to be eligible to graduate with Honours in Psychology, it is necessary (except as provided in the by-laws or resolutions) to gain a year average of Pass with at least Credit in Psychology 2001 and 2002 and also in Psychology 3001 and 3002. Students wishing to graduate with Honours in Psychology are urged to discuss their choice of other subjects with a Faculty adviser as soon as practicable. There is currently a quota on entry to Psychology 4.

**Examinations**

Undergraduate units of study are examined at the end of each semester and include classwork by way of essays, reports or practical/laboratory work. At the beginning of each unit of study or module, students are advised of its relative weight and the contributions of exam and classwork for assessment purposes.

**Textbooks:**

Check Departmental syllabi before buying prescribed texts.

**PSYC 1001 Psychology 1001**

**Teacher/Coordinator:**Coordinator Dr J. Hoh

**When Offered:** February

**Classes:** 3 lec, 1 2hr demonstration/tut/wk

**Assessment:** One 3hr exam, one 1000w essay, two tut tests; experimental participation

Psychology 1001 is a general introduction to the main topics and methods of psychology, and is the basis for advanced work as well as being of use to those not proceeding with the subject. Psychology 1001 covers the following areas: subject matter and methods of psychology; basic statistics and measurement; behavioural neuroscience; sensory processes; social psychology; personality theory.

**Textbooks:**

To be advised and Psychology 1001 Handbook (1998)
PSYC 1002 Psychology 1002

When Offered: July
Classes: 3 lec & 2hr demonstration/tut/wk
Assessment: One 3hr exam, one 1250w prac report, two tut tests; experimental participation

Psychology 1002 covers the following areas: human development; humnanmental abilities; learning, motivation and abnormal psychology; visual perception; cognitive processes.

Textbooks:
To be advised and Psychology 1002 Handbook (1998)

PSYC 2001 Psychology 2001

Prerequisite: Psychology 1001 and 1002
When Offered: February
Classes: 4 lec & up to 4hr tut/prac/wk
Assessment: Two 2hr exams, class quizzes, report

Psychology 2001 deals with material on both basic and complex psychological processes and covers the following topics:

Psychological Statistics
Classes: 1 lec & 1 tut/wk
Assessment one 1hr exam, 2 quizzes

Personality
Classes: 1 lec & 1 tut/wk
Assessment one 1hr exam

Individual Differences
Classes: 1 lec & 1 tut/wk
Assessment one 1hr exam

Sensation and Perception
Classes: 1 lec & 1 prac/wk
Assessment one 1hr exam, quiz.

Textbooks:
See Departmental handout

PSYC 2002 Psychology 2002

Prerequisite: Psychology 1001 and 1002 and either 2001 or 2101 or, with permission, equivalent Statistics content
When Offered: July
Classes: 4 lec & up to 4hr tut/prac/wk
Assessment: Two 2hr exams, quizzes, prac report

Psychology 2002 deals with material on both basic and complex psychological processes and covers the following topics:

Psychological Statistics
Classes (1 lec & 1 tut)/wk
Assessment one 1hr exam, 2 quizzes

Learning and Behavioural Neuroscience
Classes (1 lec & 1 prac)/wk
Assessment one 1hr exam, prac report

Social Psychology
Classes (1 lec & 1 tut)/wk
Assessment one 1hr exam, quiz

Cognitive Processes
Classes (1 lec & 1 prac)/wk
Assessment one 1hr exam, one essay, tut paper

Abnormal Psychology
Classes: 1 lec & 1 tut/wk
Assessment one 1hr exam, one essay, tut paper

Cognitive Processes: Recognition, Search and Memory
Classes: 1 lec & 1 tut/wk
Assessment one 1hr exam, prac report, quiz

History and Philosophy of Psychology I: Historical Foundations
(Required of students wishing to proceed to Psychology Honours)
Classes: 1 lec & 1 tut/wk
Assessment one 1hr exam, one essay, tut paper

Intelligence

PSYC 2101 Psychology 2101

4 credit points

Prerequisite: Psychology 1002
Corequisite: Psychology 1001
Additional information: May not be counted with Psychology 2001
When Offered: February

The coursework for this unit of study consists of the Statistics and Individual Differences modules from Psychology 2001.

PSYC 2102 Psychology 2102

4 credit points

Prerequisite: Psychology 2002 and 2101
Additional information: May not be counted with Psychology 2001
When Offered: February

The coursework for this unit of study consists of the Sensation and Perception and Personality modules from Psychology 2001.

PSYC 3001 Psychology 3001

12 credit points

Prerequisite: Qua! Psychology 2001 (or 2101 and 2102) and Psychology 2002
When Offered: February
Classes: 4 lec & up to 6hr of tuition/prac/wk
Assessment: Four 1hr exams, essays, prac reports, quizzes

Classes
Psychology 3001 consists of four lectures and up to six hours of practical/tutorial work each week. The class work includes essays and reports of practical or laboratory work done under supervision.

Timetabling of units of study
Because of timetabling difficulties some units of study are offered at times other than those listed for Psychology 3001 and 3002 in the timetable for Senior units of study.

Students wishing to proceed to Psychology 4 Honours must complete the four modules History and Philosophy of Psychology I and II, Measurement and Psychometrics and Statistics and Research Design, plus two other modules in each semester.

Students not wishing to proceed to Psychology 4 Honours must complete any four modules each semester.

All Psychology modules are offered subject to the availability of staff and on the condition that they are chosen by an adequate number of students in each case. The topics include:

Abnormal Psychology
Classes: 1 lec & 1 tut/wk
Assessment one 1hr exam, one essay, tut paper

Cognitive Processes: Recognition, Search and Memory
Classes: 1 lec & 1 tut/wk
Assessment one 1hr exam, prac report, quiz

History and Philosophy of Psychology I: Historical Foundations
(Required of students wishing to proceed to Psychology Honours)
Classes: 1 lec & 1 tut/wk
Assessment one 1hr exam, one essay, tut paper

Intelligence
Classes: 1 lec & 1 tut/wk
Assessment one 1hr exam, quiz

Learning and Motivation
Classes: 1 lec & up to 2hr of tut or prac/wk
Assessment one 1hr exam, prac report or essay

Measurement and Psychometrics
(Required of students wishing to proceed to Psychology Honours)
Classes: 1 lec & 1 tut/wk
Assessment one 1hr exam, prac report

Social Psychology
Classes: 1 lec & 1 tut/wk
Assessment one 1hr exam, prac report

Theoretical Bases of Development
Classes: 1 lec & 1 tut/wk
Assessment one 1hr exam, prac report.

PSYC 3002 Psychology 3002

12 credit points

Prerequisite: Qual Psychology 2001 and 2002. History and Philosophy II module requires History and Philosophy I

When Offered: July
Classes: 4 lec & up to 6hr qf/tut/prac/wk
Assessment: Four 1hr exams, essays, prac reports, quizzes

Classes and unit of study information: See Psychology 3001.

The topics include:

Behavioural Neuroscience
Classes: 1 lec & up to 2hr of prac or tut/wk
Assessment one 1hr exam, prac report, quiz

Child Abnormal Psychology
Classes: 1 lec & 1 tut/wk
Assessment one 1hr exam, one essay, tut paper

Developmental Issues
Classes: 1 lec & 1 tut/wk
Assessment one 1hr exam, report

Environmental and Organisational Psychology
Classes (1 lec & 1 tut)/wk
Assessment one 1hr exam, one prac report

History and Philosophy of Psychology II: Philosophical Principles
(Required of students wishing to proceed to Psychology Honours)
Prereq History and Philosophy of Psychology I: Historical Foundations
Classes: 1 lec & 1 tut/wk
Assessment one 1hr exam, one essay, tut paper

Human Performance
Classes: 1 lec & 1 tut/wk
Assessment one 1hr exam, 10 short reports, tutorial quiz

Language and Communication
Classes: 1 lec & 2 prac/wk (6 weeks only)
Assessment one 1hr exam, assignment/quizzes

Perceptual Systems
Classes: 1 lec & up to 2hr of tut or prac/wk
Assessment one 1hr exam, prac report

Statistics and Research Design
(Required of students wishing to proceed to Psychology Honours)

PSYC 4001 Psychology Honours

48 credit points

Prerequisite: Average of Credit or better in Psychology 2001 and 2002, and also in 3001 and 3002; specified options in Psychology 3001 and 3002

When Offered: February
Assessment: Formal exams in General Psychology and Methods; report of empirical research project; theoretical thesis or take-home examination in three Special Fields modules

Due to restricted resources for research supervision, the intake to Psychology 4 Honours will be limited to approximately 55 students and will be determined by academic merit.

Students are required to:
(a) devise, conduct and report upon an empirical research project,
(b) write a theoretical thesis or attend three Special Fields modules and write three essays;
(c) attend one General Psychology lecture series and two Method lecture series. The areas of psychology in which the empirical research project may be carried out may depend on the interests and specialities of staff members.

Bachelor of Science (Environmental)

The Bachelor of Science (Environmental) requires three years of full-time study. An Honours program is available and requires a further year of full-time study.

Progression in the Bachelor of Science (Environmental) degree program is by accumulation of credit points gained by completing units of study. A total of 144 credit points is required for the degree.

For information on other relevant units of study for this degree program, please refer to the Bachelor of Science units of study descriptions in this chapter.

HSC Aggregate

A quota exists for admission into the degree of Bachelor of Science (Environmental).

Transferring into the BSc (Environmental)

Students will only be permitted to transfer from other degrees offered by the Faculty of Science into the Bachelor of Science (Environmental) degree program with the approval of the Dean.

Bachelor of Science (Environmental)

Junior Units of Study

Candidates are required to enrol in and complete:
(i) Global Geology 1001 and Geomorphic Environments and Change 1002
(ii) Biology 1001 or 1901 and either Biology 1002 or 1902
(iii) Chemistry 1101 or 1901 or 1903 and either 1102 or 1902 or 1904
(iv) Physics 1001 or 1002
(v) Mathematics 1704.