PHSI3903 Heart and Circulation (Advanced)
12 credit points. Dr J Hohn assisted by Ms I Schneider. Semester 2.
Classes: 4lec, 2 tut & 6hr pracwk. Prerequisite: Except for BiomedSci: (MGB 2001 or 2011 or BMG/CHM 2001 or 2011 and BCHM 2002 or 2012 or MBLG 2002 or 2012 or MBLG 2003 or 2012) or at least 32 credit points of Intermediate BMED units including BMEQ (2501 and 2503 and 2505). Prohibition: May not be counted with PHSI 3003. Assessment: One 3hr exam, essays, prac reports, seminar presentations.
NB: Permission required for enrolment. A minimum of 5 credit points of Intermediate Psychology and BCHM 2002 or 2102 or 2902 are strongly recommended. Available to selected students who have achieved a mark of at least 65 in the qualifying unit(s) of study.

The lecture and practical component are the same as for PHSI 3003. Selected students will be set special advanced assignments and attend tutorials on those assignments as negotiated with a member of the academic staff.

PHSI 3004 Human Cellular Physiology (Advanced)
12 credit points. Dr Bill Phillips. Semester 1.
Classes: 4lec, 6 prac & 2 smallgroup/Lab: 1. Week has 1st & 2nd Tutors BMedSci PHSI 2001 or 2012 and BMED (2002, 2003 or 2012) and either MBLG 2001 or 2011 or BCHM 2001 or 2011 or BMED or Intermediate BMED units including BMEQ (2501 and 2503 and 2505). Prohibition: May not be counted with PHSI 3003. Assessment: One 3hr exam, 1 essay, practical reports, oral presentations.
NB: Permission required for enrolment. Available to selected students who have achieved an average of at least 65 in the prerequisite units of study.
The lecture and practical component are the same as for PHSI 3004. Selected students will be set special advanced assignments and attend tutorials on those assignments as negotiated with a member of the academic staff.

Physiology Honours
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.

Extensive information about the subject and the Department is available on the Departmental web-site: www.psych.usyd.edu.au

A normal three year sequence required for a major in Psychology is: PSYC 1001, 1002, 2111, 2112, 2113, 2114, and eight Senior units of study selected from PSYC 3201*, 3202*, 3203, 3204, 3205, 3206, 3208, 3209, 3210, 3211, 3212 and 3214 (*Required for entry to Fourth Year). Mid year entry is possible and involves modification of this sequence.

The units of study available are:
PSYC 1001, 6 credit points
PSYC 1002, 6 credit points
PSYC 2111, 4 credit points
PSYC 2112, 4 credit points
PSYC 2113, 4 credit points
PSYC 2114, 4 credit points
PSYC 3201, 4 credit points
PSYC 3202, 4 credit points
PSYC 3203, 4 credit points
PSYC 3204, 4 credit points
PSYC 3205, 4 credit points
PSYC 3206, 4 credit points
PSYC 3208, 4 credit points
PSYC 3209, 4 credit points
PSYC 3210, 4 credit points
PSYC 3211, 4 credit points
PSYC 3212, 4 credit points
PSYC 3214, 4 credit points

Students who have completed PSYSE001 and/or 3002 must obtain the permission of the Head of Department of Psychology before enrolling in any of PSYC 3201-3214.

Registratim 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 Intermediate and Senior Psychology students will also be posted at the Enrolment Centre, and on the Departmental noticeboards on the 5th floor of the Griffith-Taylor Building, as well as the Departmental website.

Enquiries
The main enquiry office of the Department is Room 416, Griffith-Taylor Building (phone 02) 9351 2872. Staff members available to discuss particular courses may be contacted directly or through this office.

Honours
In order to be eligible to enter Psychology 4 Honours, it is necessary (except as provided in the by-laws or resolutions) to gain a year average of Pass with at least Credit average in Intermediate and in Senior Psychology units of study. These Psychology units include Psychology 2111, 2112, 2113, 2114, 3210, 3211, at least 6 Intermediate Psychology units from Psychology 3203, 3204, 3205, 3206, 3208, 3209, 3210, 3211, 3212 and 3214. 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 students are advised of the contributions of exam and classwork for assessment purposes.

Summer School: January-February
PSYC 1001 Psychology 1001 is offered in the Sydney Summer School. Consult the Sydney Summer School Web site for more information, www.summer.usyd.edu.au/

PSYC 1001 Psychology 1001
6 credit points. Semester 1, Summer.
Classes: 3lec, 2hr demonstration/tut/wk. Assessment: One 3hr exam, one 1000w essay, one tut test, 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.

Summer School: January-February

This department offers PSYC 1001 in the Sydney Summer School. Consult The Sydney Summer School Web site for more information, www.usyd.edu.au/summerschool/Textbooks

Psychology 1001 Handbook (2001) and others as advised.

PSYC 1002 Psychology 1002
6 credit points. Semester: 2. Classes: 3 lecs & 2hr demonstration/tutorial. Assessment: One 3hr exam, one 1250w prac. report, one tut test, experimental participation.

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

Textbooks

Psychology 1002 Handbook (2001) and others as advised.

PSYC 2111 Learning, Neuroscience and Perception

This unit of study examines a range of phenomena and principles in perception and learning and their relations to neural substrates. The emphasis in learning is on instrumental conditioning and the principle of reinforcement, ranging from applications of this principle to its neural substrates. Also discussed are analyses of aversive-based learning, such as punishment and avoidance, and anxiety, together with related neurochemical mechanisms and the effects of various psychopharmacological agents on these processes. Perceptual phenomena include recognition of face and of emotion. A series of practical classes and demonstrations allow students to gain hands-on experience of how some of these principles and phenomena may be studied experimentally.

Textbooks

See Departmental handout

PSYC 2112 Psychological Statistics

The aim of this unit of study is to introduce students to some of the fundamental concepts in statistics as used in Psychology. These include summary descriptive statistics and an introduction to the principles and practice of experimental design and inferential statistics. Building upon this groundwork, the unit of study aims to develop student’s expertise in understanding the rationale for, and application of a variety of statistical tests to the sorts of data typically obtained in psychological research.

Textbooks

See Departmental handout

PSYC 2113 Cognitive Processes & Social Psychology

The aim of the Cognitive Processes component is to acquaint students with current theoretical and experimental work in cognitive psychology. The aim of the Social Psychology component is to extend some of the Social Psychology topics introduced in Psychology 1001 and to introduce some new topics. Students are expected to gain an understanding of two main areas of Social Psychology: (1) Group and intergroup relationships and (2) Interpersonal processes, with a focus on altruism and helping behaviour and affiliation and attraction.

Textbooks

See Departmental handout

PSYC 2114 Personality and Individual Differences

PSYC 2114 is made up of two components: Personality and Individual Differences. The aim of the Personality component is to introduce the student to various psychodynamic theories of personality; Eysenck's biological typology and current trait theories. Students will be exposed to conceptual analysis and encouraged to critically evaluate the various theories covered.

The aim of the Individual Differences component is to introduce the major issues in individual differences and group differences in human abilities. It is divided into two parts: 5 lectures on individual differences and 8 lectures on group differences. Students are expected to gain an understanding about the major theories of intelligence and of the facts related to the traditional areas of group differences.

Textbooks

See Departmental handout

PSYC 3201 Statistics and Psychometrics
4 credit points. Semester: 2. Classes: 2 lecs & 1 prac & 1 hr unsupervised computer practice. Qualifying: 8 credit points of Intermediate Psychology including PSYC 2112. Assessment: Class test, assignment, examination.

NB: 32 credit points of Senior (thirdyear) Psychology is required for a major

PSYC 3201 consists of two components, Statistics and Psychometrics. The aim of the Statistics component is to teach students the structure of experiments for which analysis of variance would be an appropriate means of analysis. The unit of study aims to develop students’ ability to ask more focused questions than can be answered by omnibus F tests, specifically by the testing of contrasts. The problems of multiple inferences, and the control of the Type I error rate, are an integral aspect of the unit of study.

The objective of the Psychometrics component is to introduce students to measurement as understood in Psychology, to a range of quantitative theories and to the basic concepts of classical psychometrics, item analysis and test construction.

Textbooks

See Departmental handout

PSYC 3202 History and Philosophy of Psychology

NB: 32 credit points of Senior (thirdyear) Psychology is required for a major

PSYC 3202 consists of two components: History of Psychology and Philosophy of Psychology. The History of Psychology introduces the historical foundations of Western psychology from Descartes through to the cognitive revolution in the 1960's. In covering important individuals, movements and themes, attention is drawn to debate about interpretation of the historical process, and to analysis of the form and structure of the various arguments presented in favour of certain psychological theories. The Philosophy of Psychology introduces traditional and contemporary themes in the philosophy of science, with focus on the relevance to psychology. Students are expected to become aware that metatheoretical analysis has a central place in psychology alongside empirical methods, that the basic concepts and theories of psychology involve philosophical assumptions which can be articulated and examined.

Textbooks

See Departmental handout

PSYC 3203 Abnormal Psychology
4 credit points. Semester: 2. Classes: 2 lecs & 1 tut wk. Qualifying: PSYC 2111 and PSYC (2113 or 2114). Assessment: 1.5 hr exam, report/presentation.

NB: 32 credit points of Senior (thirdyear) Psychology is required for a major

This unit of study examines core issues in Abnormal Psychology. The unit of study will cover aspects of adult abnormality and child abnormality and will include topics such as:

(a) Adult abnormal psychology: Anxiety disorders (specific phobias, panic disorder, agoraphobia); OCD; Addictive disorders (drug, alcohol, gambling); Eating disorders (anorexia nervosa, bulimia nervosa); Mood disorders (dysthymia, major depressive disorder, cyclothymia, bipolar disorder). Schizophrenia, Personality disorders.

(b) Child abnormal psychology: Learning disabilities, Mental retardation, Intellectual and educational assessment of children; Pervasive developmental disorders; Attention deficit disorder; Conduct disorder; Anxiety disorders in children and adolescents; Depression.
PSYC 3204 Behavioural Neuroscience
4 credit points. Semester: 2. Classes: 2 lec & 1 prac/wk. Qualifying: 8 credit points of Intermediate Psychology including PSYC 2111. Assessment: 1.5hr exam, class quiz, poster presentation, class participation.
NB: 32 credit points of Senior (thirdyear) Psychology is required for a major
This unit of study carries on the from the Neuroscience component of PSYCH 2111, providing some more specialised coverage in the areas of psychopharmacology, molecular neuroscience, human brain imaging and cognitive neuroscience. Topics to be covered include: Psychopharmacology (basic actions of drugs on the brain, mechanism of action of antidepressant, antipsychotic and anxiolytic drugs, effects of recreational drugs (cannabis, MDMA, alcohol, opiates) on brain, behaviour and cognition); Molecular Neuroscience (effects of drugs on gene expression, the use of knockout mice and antisense techniques); Brain Imaging Technologies (findings in psychiatry and neurology, what we can learn about the fundamentals of brain function from brain imaging) and Cognitive Neuroscience (neural basis of cognitive abnormalities in schizophrenia and other disorders). In the first few weeks of the unit, tutorials consist of demonstrations covering basic neuroanatomy, histology and neuropharmacology. In the latter part of the course, tutorials involve groups of students giving poster presentations of recent ‘hot’ papers in the neuroscience field.
Textbooks
See Departmental Handout

PSYC 3205 Cognitive Psychology
NB: 32 credit points of Senior (thirdyear) Psychology is required for a major
This unit of study deals with current research in memory, attention and pattern recognition and is approached in a practical way. Students participate in experiments as subjects and experimenters and are encouraged to think and act as experimenters in order to prepare them for their empirical projects in fourth year honours. In tutorial sessions students are set problems in the derivation of hypotheses from theory and the design of experiments to test these hypotheses.
Textbooks
See Departmental Handout

PSYC 3206 Developmental Psychology
NB: 32 credit points of Senior (thirdyear) Psychology is required for a major
This unit of study examines various theoretical approaches to and selected issues within Developmental Psychology. The major issues/controversies in Developmental theory are examined in relation to a number of the more influential theoretical approaches. Students are expected to gain an understanding of current developmental theory and research. In addition the unit introduces students to a range of issues in selected areas of contemporary Developmental Psychology. Students are expected to gain knowledge of these areas, and to develop a critical approach to the analysis of current research and theoretical issues. They are also required to apply their knowledge in practical exercises involving observations of children.
Textbooks
See Departmental handout.

PSYC 3208 Intelligence
4 credit points. Semester: 2. Classes: 2 lec & 1 tut/wk. Qualifying: PSYC 2112 and 2114. Assessment: 1.5hr exam, tutorial quizzes.
NB: 32 credit points of Senior (thirdyear) Psychology is required for a major
The aim is to provide an overview and critical platform to evaluate recent studies of individual differences in human cognitive abilities. The unit introduces major contemporary issues in individual differences in human abilities and intelligence. The emphasis of the latter part is on recent work on the topics related to (a) Psychometric research on intelligence; (b) Experimental cognitive correlates approach to intelligence; (c) Biological aspects of intelligence; and (d) the role of metacognitive abilities in intelligence. Some of the work carried out at this University is also discussed.
Textbooks
See Departmental handout.

PSYC 3209 Learning and Motivation
NB: 32 credit points of Senior (thirdyear) Psychology is required for a major.
PSYC 3209 introduces the fundamental concepts and more important research findings of contemporary learning theory and selected approaches to motivation. It examines the application of such fundamental research to issues such as drug tolerance, food choice, stress, health promotion and risk taking. It is designed to develop skills in reading primary sources in this area; and to provide the opportunity for hands-on experience of planning and carrying out a research project.
Textbooks
See Departmental handout.

PSYC 3210 Perceptual Systems
4 credit points. Semester: 2. Classes: 2 lec & 1 hr tab wk. Qualifying: PSYC 2111 and 2112. Assessment: 1.5hr exam, tutorial assessment.
NB: 32 credit points of Senior (thirdyear) Psychology is required for a major
This unit covers at an advanced level selected topics in Perception from both the psychophysical and neuroscientific perspectives. Students are expected to gain an understanding of the main theoretical perspectives in current research, to appreciate the significance and relevance of basic perceptual research for understanding normal perceptual functioning, and to be able to evaluate the conceptual and empirical worth of research contributions.

PSYC 3211 Psychological Assessment & Organisational
4 credit points. Semester: 1. Classes: 2 lec & 1 tut/wk. Qualifying: PSYC 2112 and 2114. Prohibitions: May not be counted with PSYC 3207 (except with permission from the Head of Department). Assessment: 1.5hr exam, tutorial evaluation.
NB: 32 credit points of Senior (thirdyear) Psychology is required for a major
The Psychological Assessment component covers fundamental issues in the construction, evaluation and administration of psychological tests with particular emphasis on tests of personality. Students will be given ‘hands-on’ experience with a variety of psychological instruments including those used for personality, aptitude and clinical assessment. A variety of psychometric ‘skills’ eg, calculating reliability, rudiments of scale construction) will also be taught. This component of the unit will conclude with an introduction of state of the art issues in psychological assessment including demonstrations of adaptive and computerised testing and discussion of item response theory (IRT) and confirmatory factor analysis (CFA).

The Organisational Psychology component focuses on performance in the work place and the influence of social factors on such performance. Various aspects of the workplace will be examined, including leadership, workplace conflict, job satisfaction, selection and appraisal.
Textbooks
See Departmental handout.

PSYC 3212 Social Psychology
NB: 32 credit points of Senior (thirdyear) Psychology is required for a major
PSYC 3212 continues the coverage of topics in Social Psychology begun in the unit PSYC 2113. The unit is divided into topic areas where the focus is on evaluating theories and the relevant evidence. In any one year approximately four topics will be covered from the following list: affiliation and attraction, social motivation (especially aggression), social cognition, social competence, the impact of aspects of the physical environment on social behaviour, jury decision making, interpersonal communication, and social development through the lifespan. Tutorials provide first hand experience of research by involving students in a range of research projects on the topics covered in the lectures. The tutorials also provide an opportunity for discussion of issues associated with the topics covered in lectures.

PSYC 3214 Communication and Counselling
NB: 32 credit points of Senior (thirdyear) Psychology is required for a major

The focus of the Communication component is the way in which the meaning communicated by the spoken word is modified by non-lexical features. Topics covered include the three phase structure of communication, conversation structure, prosodic features of speech; paralanguage; and non-vocal communication. These topics are considered in the context of the type of information communicated: knowledge, attitudes, feelings and emotions. Cultural differences in communication are highlighted. Special topics include the concept and role of body language, the detection of deception, and conversational control.

The aims of the Counselling component are to provide an introduction to counselling psychology, to critically examine the theoretical foundations of counselling processes and to consider relevant empirical research. The topics to be covered are: The work of the counsellor: Defining counselling, distinguishing between counselling, education, interviewing and psychotherapy, Goals of counselling, Skills-oriented and stage-oriented models of counselling (eg, Egan’s Helping Model),

Theoretical Models: The organising principles of counselling, and their status, as variously proposed within the following viewpoints; Psychodynamic theories (Freud and the neo-Freudians), behavioural theories (eg, Wolpe, Skinner, Bandura), cognitive theories (eg, Ellis, Beck), existentialist-humanistic theories (eg, Rogers), Gestalt theories (eg, Perls). More recent approaches (examples to be selected by the lecturer), Integrating theory and skills: Single-model approaches versus forms of eclecticism, Introduction to professional issues: Supervision and ethics.

**Recommended Reading**

**Psychology Honours**

Prerequisite: Average of Credit or better in 16 credit points of Intermediate Psychology, and also in at least 32 credit points of Senior Psychology which must include PSYC 3201 and 3202.

B Psych students should consult resolutions in chapter 5. Departmental permission required. Assessment: Formal exams in Ethics and Issues in Psychology and in 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 in Intermediate and Senior Psychology.

Students are required to:

(a) devise, conduct and report upon an empirical research project (research area dependent on interests & specialities of staff members);
(b) write a theoretical thesis or attend three Special Fields seminars and write three essays; and
(c) attend one lecture series in Ethics and Issues in Psychology and two Method lecture series.