Finally, the practical course will emphasize experimental design and interpretation. Collectively, the PBL Methods lecture series and practical classes are intended to begin to develop skills and outlook to prepare students for the Honours year of research.

PSHI 3904  Human Cellular Physiology (Advanced)  
12 credit points. Dr Bill Phillips. Session: 1. Classes: 4 lec, 6 prac & 2 small group PBL: wk. Prerequisites: For BMSc: 32 credit points of Intermediate BMED units including BMED (2501 and 2502 and 2504). For others: PHSI (2001 or 2101 or 2901) and PHSI (2002 or 2102 or 2902) and either MBSL (2001 or 2101 or 2901) or SChM (2001 or 2101 or 2901). Prohibition: PHSI 3004. Assessment: Written exams, 1 essay, practical reports, oral presentations.

NB: Department permission required for enrolment. Permission is 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.

Psychology

Psychology is the study of behaviour and it is approached on a scientific basis, with provision for professional training at the postgraduate level. The research activities of the School cover almost all of the main branches of the subject. Extensive information about the subject and the School is available on the School 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, 3214, 3215 and 3216 (*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
- PSYC 3215, 4 credit points
- PSYC 3216, 4 credit points

Students who have completed PSYC 3001 and/or 3002 must obtain the permission of the Head of School of Psychology before enrolling in any of PSYC 3201 to 3216.

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 Old Teachers College Building.

Information about registration meetings for Intermediate and Senior psychology students will also be posted at the Enrolment Centre, and on the School noticeboards on the 5th floor of the Griffith-Taylor Building, as well as the School web-site.

Enquiries

The main enquiry office of the School 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 at least Pass with Credit in Intermediate and in Senior Psychology units of study. These Psychology units include Psychology 2111, 2112, 2113, 2114, 3201, 3202, and at least six other Senior Psychology units from Psychology 3203, 3204, 3205, 3206, 3208, 3209, 3210, 3211, 3212, 3214, 3215 and 3216. 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, PSYC 1002 and PSYC 3201 are offered in the Sydney Summer School. Consult the Sydney Summer School Web site for more information. www.usyd.edu.au/summerschool/Textbooks

Psychology 1001 Handbook,

PSYC 1002 Psychology 1002  
6 credit points. Session: 2. Summer. Classes: 3 lec & 2hr demonstration/tut/wk. Assessment: One 2hr exam, one 1000w essay, two tut tests, experimental participation.

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

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 covered 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 faces 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 School Web site

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 inference statistics. Building upon this ground work, 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 School Web site

PSYC 2113 Cognitive Processes & Social Psychology  
This unit expands the depth and range of topics introduced in the first year lectures on Cognitive Processes, Developmental Psychology and Social Psychology. The first section on cognitive psychology focuses on current theories of memory, attention and problem solving and discusses the methods and issues involved in investigating these processes in both healthy individuals and people with cognitive dysfunctions. The second section presents and evaluates evidence about the effects of the early environment that a child is exposed to on cognitive and social development. The final section focuses on two main areas of Social Psychology: (1) Group and inter-group relationships and (2) Interpersonal processes, with a particular emphasis on altruism, helping behaviour, affiliation and attraction. The practical program will provide students with hands-on experience of some of the research methods used in cognitive and social psychology, develop an understanding of how to test hypotheses about the factors influencing human behaviour and consider the practical implications of theories and research about cognitive, developmental and social psychology.  

Textbooks  
See School Web site

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 theory. 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  
NB: 32 credit points of Senior (third year) Psychology is required for a Psychology 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 School Web site

PSYC 3202 History and Philosophy of Psychology  
4 credit points. Session: 1. Classes: 2 lec & 1 tut & 1 hr self paced library research/wk. Qualifier: PSYC 2111 and PSYC (2113 or 2114). Assessment: 2hr exam, 1 x 2000 word essay.  
NB: 32 credit points of Senior (third year) Psychology is required for a Psychology 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 School Web site

PSYC 3203 Abnormal Psychology  
4 credit points. Session: 2. Classes: 2 lec & 1 tut/wk. Qualifier: PSYC 2111 and PSYC (2113 or 2114). Assessment: 2hr exam, report/presentation.  
NB: 32 credit points of Senior (third year) Psychology is required for a Psychology Major  
This unit of study examines core issues in Abnormal Psychology. The unit of study will cover aspects of adult abnormality and childhood 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.  

Textbooks  
See School Web site

PSYC 3204 Behavioural Neuroscience  
4 credit points. Session: 2. Classes: 2 lec & 1 prac/wk. Qualifier: PSYC 3201. Assessment: 2hr exam, class quiz, poster presentation, class participation.  
NB: 32 credit points of Senior (third year) Psychology is required for a Psychology Major  
This unit of study carries on from the Neuroscience component of PSYC 2111, providing more specialised coverage in the areas of psychopharmacology, addiction, molecular neuroscience, sensorimotor intergration and the neural basis of learning and memory. 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); Addiction (the neural basis of addiction, animal models of intravenous drug use and relapse to drug seeking behaviour); Molecular Neuroscience (effects of drugs on gene expression, the use of knockout mice and transgenic techniques in neuroscience); Neurobiology of learning and memory (the synaptic and neuroanatomical basis of associative learning and memory retrieval); Sensorimotor Integration (functions of the vestibular system, the role of the basal ganglia in motor control and learning). In the first few weeks of the unit, tutorials consist of demonstrations and practicals 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 behavioural neuroscience field.

Textbooks
See School Web site

PSYC 3205 Cognition, Language and Thought
4 credit points. Session: 1. Classes: 2 lec & 2 hr practic./fortnight. 
Prerequisite: PSYC (2112 and 2113). Assessment: 2hr exam, class quiz, report & class participation.

NB: 32 credit points of Senior (third year) Psychology is required for a Psychology Major.

The aim of this unit of study is to extend the theories and methods of investigating memory and attentional processes discussed in PSYC 2113 to consider a number of domains of higher cognitive processing. One segment of the course will deal with language processes and focus on the issues and research evidence about the processes involved in speech perception and production, visual word recognition reading, language comprehension and language acquisition. The remainder of the course will deal with topics such as the development of expertise, creativity and problem solving, decision-making and the relationship between cognition and emotion. The practical program will expose students to a variety of the research methods used to investigate higher cognitive processes, develop students’ understanding of how these methods can be used to investigate hypotheses about mental processes, consider applications of cognitive research to real-world problems and provide opportunities to discuss the theoretical, methodological and practical implications of the cognitive psychological issues considered in lectures and tutorials.

Textbooks
See School Web site

PSYC 3206 Developmental Psychology

NB: 32 credit points of Senior (third year) Psychology is required for a Psychology 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 School Web site

PSYC 3208 Intelligence
4 credit points. Session: N/A in 2004. Classes: 2 lec & 1 tut/wk. Prerequisite: PSYC (2112 and 2114). Assessment: 2hr exam, tutorial quizzes.

NB: 32 credit points of Senior (third year) Psychology is required for a Psychology 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 School Web site

PSYC 3209 Learning and Motivation

NB: 32 credit points of Senior (third year) Psychology is required for a Psychology Major.

PSYC 3209 addresses the fundamental concepts and more important research findings of contemporary learning theory and selected approaches to study motivation. It examines the application of such fundamental research to issues such as drug tolerance, food choice, stress and health. 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 School Web site

PSYC 3210 Perceptual Systems
4 credit points. Session: 1. Classes: 2 hrs lec & 1 hr lab/wk. Prerequisite: PSYC (2111 and 2112). Assessment: 2hr exam, tutorial assessment.

NB: 32 credit points of Senior (third year) Psychology is required for a Psychology 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.

Textbooks
See School Web site

PSYC 3211 Psychological Assessment & Organisational Psychological Assessment.

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’ (e.g., 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 factor analysis.

The Organisational Psychology component focuses on performance in the workplace 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 School Web site

PSYC 3212 Social Psychology
4 credit points. Session: 1. Classes: 2 lec & 1 tut/wk. Prerequisite: 8 credit points of Intermediate Psychology including PSYC 2113. Assessment: 1hr exam, classwork quiz.

NB: 32 credit points of Senior (third year) Psychology is required for a Psychology 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.

Textbooks
See School Web site

PSYC 3214 Communication and Counselling

NB: 32 credit points of Senior (third year) Psychology is required for a Psychology Major.

The communication component of the unit is concerned with understanding how personal communication occurs in a face to face context. The emphasis will be on the structure of language and non-language components that compose the message and the
extent to which that message is correctly decoded. The counseling component of the unit aims to provide an introduction to counseling psychology, to critically examine the theoretical foundations of counseling processes and their application, and to consider relevant empirical research and professional issues.

Textbooks
See School Web site

PSYC 3215  **Cognitive Neuroscience & Neuropsychology**

4 credit points. **Session:** 2. **Classes:** 2 lec/wk & 2 hr lab/fortnight. **Prerequisite:** Two of PSYC (2111, 2112, 2113). **Assessment:** 2 hr exam; laboratory class assessment.

**NB:** 32 credit points of Senior (third year) Psychology is required for a Psychology Major.

The unit of study will encompass two components. The Cognitive Neuroscience component will focus on approaches to studying the human brain at different scales of function (microscopic to macroscopic), the link between cognitive and biological models of brain function and dysfunction, and the application of these models to understanding cognitive neuropsychiatric disorders such as post-traumatic stress, schizophrenia and attention-deficit disorder. The Cognitive Neuropsychology component will use evidence about the selective breakdown of specific cognitive domains (eg, memory, language, visual cognition, praxis) in a variety of neurodegenerative disorders to (1) examine the functional neuroanatomy underpinning those cognitive domains and (2) explore the implications of focal cognitive deficits in neurological patients for models of normal cognitive function.

Textbooks
See School Web site

PSYC 3216  **Health and Safety Psychology Principles**

4 credit points. Dr R.F. Soames Job, Dr Julie Hatfield. **Session:** N/A in 2004. **Classes:** 2 lec, 1 tut. **Prerequisite:** PSYC (2111 and 2112). **Assessment:** 2hr exam, 2000w essay.

**NB:** 32 credit points of Senior (third year) Psychology is required for a Psychology Major.

The unit of study aims to develop an awareness of the general nature of Health and Safety Psychology, of the extent of preventable health problems and the likely victim groups, and of the role of psychological factors in the aetiology, prevention, and management of health problems. The unit of study will also develop students' ability to understand and evaluate research methodology in health psychology, and to identify the implications which can be drawn from cross-sectional observational, longitudinal observational, and experimental research designs. Topics covered include: several models of health-related behaviour, optimism bias (the phenomenon and its measurement, causal models and possible consequences), psychological factors in road safety, psychological issues related to health promotion messages (and factors which influence their efficacy), psychological factors in occupational health and safety, interactions with the health-care system, stress and its health consequences (including the role of coping and personality), the role of organisational psychology in occupational stress, and stress management, the influence of lifestyle on health (with particular consideration of diet, exercise and sleep), and the effects of noise exposure (methodological issues, behavioural, cognitive, and physical effects and their interrelationships, as well as the moderating role of psychological factors such as noise sensitivity and attitudes toward the noise source). The tutorial program aims to develop an ability to read and understand Health and Safety Psychology research articles, and an appreciation of ethical issues in Health and Safety Psychology research. It will also provide experience in conducting Health and Safety Psychology research.

Textbooks
See School Web site

**Psychology Honours**

**Prerequisite:** Average of Pass with 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. BPsych students should consult resolutions in chapter 5. School permission required.

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. **Assessment:** Formal exams in Ethics and Issues in Psychology and in Research Methods; report of empirical research project; theoretical thesis or assessment in three Special Fields modules.

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 two Special Fields seminars and complete required assessment tasks; and
(c) attend one lecture series in Ethics and Issues in Psychology and two series of lectures in Research Methods.