

PSYCHOLOGY (PSYC)

Updated February 2, 2013

Note: The department/program code PSYC replaces the former code 44. Students cannot hold credit in PSYC-xxxx and the former 44.xxxx having the same course number (e.g., PSYC-1000(6) and 44.1000(6)).

Chair: Professor J. Clark; Professor Emeritus: R. Norton; Professors: D. Bourassa, H. Bradbury, B. Fehr, W. Josephson, M.C. McIntyre, G. Rockman, , H. Strub, D.A. Williams; Associate Professors: H. Aujla, B. Bolster, P.M. Pearson, L.M. Sinclair, S. Smith, P. Trapnell; Assistant Professors: A. Desroches; J. Frimer; D. Gaucher; Instructors: M.K. Halldorson; Senior Scholars: B. Kelly, M.K. Kerr, E. Schaefer; Adjunct Professors: D. Bailis; J. Kornelson, S. Skwarchuk, U. Sboto-Frankenstein.

DEGREES/PROGRAMS OFFERED

**3-Year BA
Honours BA**

INTRODUCTION

Psychology is the scientific study of the mind and behaviour, in essence, why people feel, think, and act the way that they do. The Psychology Department offers courses to acquaint students with theory and research in the diverse areas of study examined by academic psychologists, including Developmental Psychology, Social Psychology, Physiological Psychology (Neuroscience), Organizational Psychology, and Forensic Psychology. Students are also exposed to laboratory methods of investigation. These programs prepare students for further study in psychology and related fields, for example, education, speech pathology, law, business, and human services. For more information on the Psychology Department see www.uwinnipeg.ca/index/psychology-index.

REQUIREMENTS FOR A 3-YEAR BA IN PSYCHOLOGY

ADMISSION REQUIREMENT	Students are advised, but not required to consult with a member of the Department in planning their course of study.
GRADUATION REQUIREMENT	90 credit hours
RESIDENCE REQUIREMENT	
Degree:	Minimum 30 credit hours
Major:	Minimum 18 credit hours
GENERAL DEGREE REQUIREMENT	
Humanities:	12 credit hours in Humanities
Science:	6 credit hours in Science
Writing:	Minimum 3 credit hours of Academic Writing.
Maximum Introductory Courses:	Students may use a maximum of 42 credit hours at the 1000 level. Of these, a maximum of 6 credit hours may be below the 1000 level.
Distribution:	Minimum three (3) credit hours from each of five (5) different subjects.
MAJOR REQUIREMENT	
Single Major:	Minimum 30 credit hours/Maximum 48 credit hours. Minimum 6 credit hours at the 3000 level or above in Psychology.
Double Major:	30 or 36 credit hours in each Major subject, as specified.
Combined Major:	Minimum 48 credit hours from two different majors with not less than 18 credit hours from each major subject.
Required courses:	
PSYC-1000(6) Introductory Psychology, or a 3 credit introductory course transferred from another university as PSYC-1000(3) minimum 2.0 GPA (C)	
PSYC-2101(3) Introduction to Data Analysis or equivalent STAT-1201(6), STAT-1501(3), or STAT-1601(3).	
PSYC-2102(3) Introduction to Research Methods	
Minimum of 3 credit hours from Entry Category A (Social Sciences), to be selected from:	
PSYC-2200(3) Developmental Psychology I: Fundamentals	
PSYC-2300(3) Personality Psychology	
PSYC-2400(3) Social Psychology I	
Minimum of 3 credit hours from Entry Category B (Natural Sciences), to be selected from:	
PSYC-2600(3) Attention and Memory	
PSYC-2610(3) Perception I	
PSYC-2800(3) Fundamentals of Animal Learning	
PSYC-2900(3) Physiological Psychology I	

Advisory:

Students who declared a major in Psychology prior to April 30, 2000 are not required to obtain 3 credit hours in each of the Entry Categories A and B above. Students with a 3.0 GPA (B) in Psychology courses are eligible to take 4000-level courses, but must receive permission from the Psychology Department's Honours Committee before registering for 4000-level courses.

Note that a 3-Year BA is *not* normally sufficient for admission to graduate studies. Students normally enrol in PSYC-2101(3) and PSYC-2102(3) in their 2nd year.

GENERAL INFORMATION

Prerequisites: **PSYC-1000(6) Introductory Psychology** or a 3 credit introductory course transferred from another university as **PSYC-1000(3)** is required for registration in all other Psychology courses. A grade of C or better in PSYC-1000 Introductory Psychology, or a 3 credit introductory course transferred from another university as **PSYC-1000(3)**, and a minimum 2.0 overall GPA (C) is required for acceptance to the Major program.

REQUIREMENTS FOR AN HONOURS BA IN PSYCHOLOGY

The Honours program gives students of demonstrated ability an opportunity to deal more deeply with the subject matter of Psychology and to prepare for graduate study in Psychology or for advanced study in related fields. Honours courses generally have smaller enrolments and give more emphasis to research than do general courses. Honours students must consult with an Honours Psychology advisor prior to each registration.

ADMISSION REQUIREMENT

Entry into the program after completing a minimum of 30 credit hours.
Entry, continuing and graduation minimum GPA is 3.0 (B) in Honours Subject courses and 2.5 (C+) in Non-Honours Subject courses.
The minimum 3.0 GPA (B) will be based on all attempts (including course repeats and failures) in Honours Subject courses.
The minimum 2.5 GPA (C+) in all Non-Honours Subject courses will be calculated as for the general degree (i.e., Fs are not included, and in the case of repeated courses, only the highest grade will be used).

GRADUATION REQUIREMENT

Minimum 120 credit hours

RESIDENCE REQUIREMENT

Degree: Minimum 60 credit hours
Honours: Minimum 30 credit hours, including minimum 18 credit hours at upper level (3000/4000) of which a minimum of 9 credit hours must be at the 4000 level.

GENERAL DEGREE REQUIREMENT

Humanities: 12 credit hours in Humanities
Science: 6 credit hours in Science
Writing: Minimum 3 credit hours of Academic Writing.
Maximum Introductory Courses: Students may use a maximum of 42 credit hours at the 1000 level. Of these, a maximum of 6 credit hours may be below the 1000 level.
Distribution: Minimum three (3) credit hours from each of five (5) different subjects.

HONOURS REQUIREMENT

Single Honours: Minimum 54 credit hours/Maximum 78 credit hours in the Honours subject.
Minimum 30 credit hours in 4000-level Honours courses.
Double Honours: Minimum 36 credit hours in each Honours subject.
Minimum 24 credit hours in 4000-level Honours courses in the Psychology component of the double Honours. For the requirements of the other Honours subject, consult the department involved.

Required courses:

PSYC-1000(6) Introductory Psychology or a 3 credit introductory course transferred from another university as **PSYC-1000(3)**

PSYC-2101(3) Introduction to Data Analysis or STAT-1201(6) STAT-1301(3) or STAT-1501(3) or STAT-1601(3).

PSYC-2102(3) Introduction to Research Methods

PSYC-4100(6) Research Design and Data Analysis

PSYC-4040(6) Honours Thesis

Minimum of 6 credit hours from Entry Category A (Social Sciences), to be selected from:

PSYC-2200(3) Developmental Psychology I: Fundamentals

PSYC-2300(3) Personality Psychology

PSYC-2400(3) Social Psychology I

Minimum of 6 credit hours from Entry Category B (Natural Sciences), to be selected from:

PSYC-2600(3) Attention and Memory

PSYC-2610(3) Perception I

PSYC-2800(3) Fundamentals of Animal Learning

PSYC-2900(3) Physiological Psychology I

Advisory:

All 4000-level courses are Honours courses and are ordinarily taken in the 3rd and 4th years.

Honours students are advised to enrol in **PSYC-2101(3)** (or equivalent) and **PSYC-2102(3)** in their 2nd year.

Honours students should begin fulfilling their Entry Category requirements with a minimum of two, 3 credit hour courses in their 2nd year.

Honours students normally register for **PSYC-4100(6)** in their 3rd year.

The Honours thesis course, **PSYC-4040(6)**, is normally taken during the last registration period.

GENERAL INFORMATION

Prerequisites

PSYC-1000(6) Introductory Psychology or a 3 credit introductory course transferred from another university as **PSYC-1000(3)** is required for registration in all other Psychology courses. A grade of C or better in **PSYC-1000(6)** Introductory Psychology, or a 3 credit introductory course transferred from another university as **PSYC-1000(3)** and a minimum 2.0 overall GPA (C) is required for acceptance to the Major program.

COURSE LISTINGS

INTRODUCTION, HISTORY AND TOPICS		PSYC-3470(3)	Psychology and The Law**
GENERAL COURSES		PSYC-3480(3)	Interpersonal Communication
PSYC-1000(6)	Introductory Psychology		
PSYC-3030(3)	Historical Developments in Psychology		
PSYC-3050(3)	Culture and Psychology		
HONOURS COURSES		PSYC-4400(3)	Topics in Social Psychology
PSYC-4010(3)	Advanced Reading and Research In Psychology I	PSYC-4410(3)	Research Seminar in Social Psychology
PSYC-4020(3)	Advanced Reading and Research In Psychology II	PSYC-4450(3)	Advanced Organizational Psychology
PSYC-4030(3)	Psychological Issues in Historical Perspective		
PSYC-4040(6)	Honours Thesis		
METHODS			
GENERAL COURSES		PSYC-2600(3)	Attention and Memory*
PSYC-2101(3)	Introduction to Data Analysis*	PSYC-2610(3)	Perception I*
PSYC-2102(3)	Introduction to Research Methods*	PSYC-2620(3)	Psycholinguistics*
		PSYC-3600(3)	Cognitive Processes
HONOURS COURSES			
PSYC-4100(6)	Intermediate Research Design and Data Analysis	PSYC-4600(3)	Topics in Human Learning And Memory
		PSYC-4610(3)	Topics in Perception
		PSYC-4630(3)	Topics in Cognitive Psychology
DEVELOPMENTAL			
GENERAL COURSES			
PSYC-2200(3)	Developmental Psychology I: Fundamentals	PSYC-2700(3)	Introduction to Clinical Psychology
PSYC-2210(3)	Introduction to Educational Psychology	PSYC-3700(3)	Abnormal Behaviour in Adults
PSYC-3200(3)	Developmental Psychology II: Childhood	PSYC-3710(3)	Abnormal Behaviour in Children And Adolescents
PSYC-3220(3)	Adult Psychology	PSYC-3720(3)	Behaviour Modification
PSYC-3230(3)	Adolescent Psychology	PSYC-3740(3)	Introduction to Family Processes
HONOURS COURSES			
PSYC-4200(3)	Topics In Developmental Psychology	PSYC-4700(3)	Topics in Abnormal Behaviour
PSYC-4240(3)	Social Development	PSYC-4730(3)	Biological Considerations in Clinical Psychology
PSYC-4250(3)	Cognitive Development	PSYC-4750(3)	Psychological Testing
PSYC-4260(3)	Prenatal and Infant Development	PSYC-4760(3)	Introduction to Counselling Theory
		PSYC-4770(3)	Introduction to Interviewing
PERSONALITY			
GENERAL COURSES			
PSYC-2300(3)	Personality Psychology		
PSYC-3300(3)	Empirical Approaches to Personality		
HONOURS COURSES			
PSYC-4300(3)	Topics in Personality		
PSYC-4350(3)	Freud: On Personality and Clinical Practice		
PSYC-4355(3)	Freud: On Society and Culture		
SOCIAL AND ORGANIZATIONAL			
GENERAL COURSES			
PSYC-2400(3)	Social Psychology I		
PSYC-2410(3)	Social Psychology II		
PSYC-2420(3)	The Psychology of Sex and Gender		
PSYC-2430(3)	Psychological Approaches to Social Issues		
PSYC-2440(3)	Organizational Psychology I		
PSYC-2450(3)	Organizational Psychology II		
PSYC-3450(3)	Organizational Leadership and Decision Making		
		PSYC-2900(3)	Physiological Psychology I*
		PSYC-2920(3)	Drugs and Behaviour
		PSYC-3900(3)	Physiological Psychology II
		PSYC-3910(3)	Human Neuropsychology
		PSYC-3920(3)	Cognitive Neuroscience
		PSYC-3930(3)	Mind, Brain and Body
		PSYC-4900(3)	Topics in Physiological Psychology
		PSYC-4920(3)	Topics in Cognitive Neuroscience

*These courses fulfill the University requirement for Science credit.

**PSYC-3470 will be cross-listed with CJ-3470 in 2014.

COURSE DESCRIPTIONS

Courses in Psychology are organized into nine areas (see Course Listings). Students are advised to sample courses broadly from these areas, and to consider gaining perspective on the historical development of their discipline by taking a history of psychology course. Consult WebAdvisor or the appropriate Timetable on the website for courses to be offered during the current term. **Note that Introductory Psychology PSYC-1000(6) is a prerequisite for all other Psychology courses.** Most 3000- and 4000-level courses have additional prerequisites or corequisites. Students are advised to carefully consider these requirements in planning their programs.

PSYC-1000(6) INTRODUCTORY PSYCHOLOGY (Le3)

This course provides an introduction to the scientific analysis of behaviour and mental activity from the biological, social, and individual perspectives. Major topics include the following: perception, motivation, learning, memory, intelligence, personality, states of consciousness, social interaction, developmental processes, hereditary and environmental influences, abnormal psychology, therapeutic methods, and procedures for collecting and summarizing data. Students are expected to participate directly or indirectly in the Department's ongoing research program. This course is prerequisite for all other Psychology courses.

RESTRICTIONS: Students cannot receive credit for both PSYC-1000(6) and PSYC-1000(3) (transferred introductory course from another university).

PSYC-2101(3) INTRODUCTION TO DATA ANALYSIS (Le3,La3)

This lab course introduces basic data analytic techniques appropriate to experimental and non-experimental research designs. Topics include frequency distributions, descriptive statistics (e.g., mean, standard deviations), and inferential statistics (e.g., estimation and hypothesis testing for means, correlation and count data). The lab component provides an opportunity to develop computational and basic computer skills relevant to data analysis. This course is required for Majors and Honours students in Psychology.

RESTRICTIONS: Students cannot receive credit for both PSYC-2101(3) and (a) STAT-1201(6), (b) STAT-1501(3), or (c) STAT-1601(3).

PSYC-2102(3) INTRODUCTION TO RESEARCH METHODS (Le3,La3)

This lab course introduces basic research designs. Topics include observation and measurement, reliability and validity, balanced coverage of experimental and non-experimental design strategies, control of extraneous variables, generalizability, and research communication. The lab component provides an opportunity to apply knowledge to research experiences that sample from representative areas of psychology. This course is required for Majors and Honours students in Psychology.

PREREQUISITE: PSYC-2101(3) or former STAT-1201(3) or STAT-1301(3) or STAT-1501(3) or former STAT-1601(3).

RESTRICTIONS: Students with standing in the former PSYC-2100(3) may not receive credit for PSYC-2102(3).

PSYC-2200(3) DEVELOPMENTAL PSYCHOLOGY I: FUNDAMENTALS (Le3)

This course, along with PSYC-3200(3), serves as an introduction to developmental psychology. This course covers the following topics: historical and philosophical background (e.g., the nativist-empiricist conflict), theories of development, the biological foundations of early ontogeny (i.e., heredity, conception, prenatal development, and early post-natal development of the nervous system), developmental methodology, and the basics of human perceptual and cognitive development. This is the single 3 credit hour course prerequisite for more advanced courses in the developmental area.

PSYC-2210(3) INTRODUCTION TO EDUCATIONAL PSYCHOLOGY (Le3)

This course examines how the basic

principles of psychology can be applied to educational research. Topics include heredity, environment, and maturation; motivation and learning; concept formation and creativity; teacher-student interactions; the school as a social system; and current technological advances in education.

PSYC-2300(3) PERSONALITY PSYCHOLOGY (Le3)

This course introduces the various aspects of personality study. These may include (a) theories of personality, ranging from Freudian and revisionist Freudian perspectives to current formulations; (b) personality assessment from a psychometric perspective; and (c) past and present research on personality processes and individual differences.

PSYC-2400(3) SOCIAL PSYCHOLOGY I (Le3)

This course emphasizes the social behaviour and cognitions of the individual in social context. Central topics dealt with from this perspective include social perception and impression formation; attitudes, beliefs, and values; prejudice and discrimination; and the formation and function of the social self. Other relevant topics include sex and gender roles and differences; moral judgment; social development, and social psychology applied to health, law, and justice. Theories and methodology relevant to this orientation and these topics will be examined.

PSYC-2410(3) SOCIAL PSYCHOLOGY II (Le3)

This course emphasizes the social behaviour that emerges in groups of individuals in various interrelationships in social contexts. The theory and method necessary to understanding the principles governing this emergent social behaviour are stressed. Central topics include group dynamics; affiliation, attraction, and close relationships; interpersonal communication and transactions; aggression; prosocial behaviour and altruism; leadership; social change and conflict; and conformity and social control. Other relevant topics include organizational psychology and environmental psychology.

PREREQUISITE: PSYC-2400(3).

PSYC-2420(3) THE PSYCHOLOGY OF SEX AND GENDER (Le3)

This course examines whether and to what extent behaviours and attributes are gender-and/or sex-related. The psychological literature is examined for findings pertinent to the question of female-male differences and similarities, and for indications of socio-cultural and biological factors that may explain these findings. Current social beliefs and norms concerning sex and gender are examined in the light of existing data.

PSYC-2430(3) PSYCHOLOGICAL APPROACHES TO SOCIAL ISSUES (Le3)

This course examines issues of social importance in light of psychological theory and research findings. The issues to be considered will vary with offerings of the course, but will include topics such as the psychology of war and peace, the social psychology of mental health care, the social applications of psychometric testing, the psychology of economic behaviour, etc. The specific topics for a particular offering may be obtained in advance from the Department.

PSYC-2440(3) ORGANIZATIONAL PSYCHOLOGY I (Le3)

This course is an introduction to the behaviour of individuals

in organizations, focussing on research methods in industrial/organizational psychology, effects of individual personality and perception on organizational behaviour, communication in organizations, learning and motivation, job design, work stress, and career planning and development.

RESTRICTIONS: Students with standing in the former 81.2102(6) may not receive credit for PSYC-2440(3). Students may not receive credit for both this course and BUS-2103(3) or the former BUS-2102(6).

PSYC-2450(3) ORGANIZATIONAL PSYCHOLOGY II (Le3)

This course covers topics related to group and organizational processes, including group dynamics, leadership, organizational conflict, power and organizational politics, organizational culture and socialization, organizational structure and design, and organizational development and change.

PREREQUISITE: PSYC-2440(3) or BUS-2103 (3).

RESTRICTIONS: Students with standing in the former 81.2102(6) may not receive credit for PSYC-2450(3). Students with standing in the former BUS-2102(6) may not receive credit for PSYC-2450(3).

PSYC-2600(3) ATTENTION AND MEMORY (Le3)

This course examines attentional and memory mechanisms from an information-processing perspective, in which the human is viewed as an active processor of information. Topics to be discussed include attention, coding and retrieval mechanisms, short and long term retention and organizational processes in attention and memory. Demonstrations illustrating major principles in attention and memory and exercises for improving memory skills are included.

PSYC-2610(3) PERCEPTION I (Le3)

At the border between the physical world and the mind lie the senses. Exactly how the senses manage to gather information about the world is a difficult question that has long engaged physicists, physiologists, anatomists, psychologists, engineers, and computer scientists. This course surveys the results and theories of this interdisciplinary field. The course is valuable preparation for those interested in such areas as audiology, optometry, human factors engineering, medicine, and psychology.

PSYC-2620(3) PSYCHOLINGUISTICS (Le3)

This course provides an examination of the various models and approaches to language behaviour, with particular emphasis on contemporary psycholinguistic theory and research. Topics include language acquisition, the physiological and cognitive processes mediating language behaviour, semantic considerations, symbolic behaviour, animal communication, and the cultural context of language. This course may be of particular interest to students anticipating graduate study in communication disorders and psycholinguistics.

PSYC-2700(3) INTRODUCTION TO CLINICAL PSYCHOLOGY (Le3)

This course will provide a comprehensive introduction to the broad field of clinical psychology. There will be a focus on models of clinical psychology, clinical research and practice, clinical judgement, and ethical, professional, and political issues related to the discipline.

PSYC-2800(3) FUNDAMENTALS OF ANIMAL LEARNING (Le3)

Contemporary approaches to the study of animal learning will be considered in order to highlight changes in perspectives occurring over the last fifteen years. Areas explored include animal cognition, evolutionary continuity of learning, and the application of learning principles to aid the understanding of clinical phenomena such as pain sensitivity and drug tolerance.

PSYC-2900(3) PHYSIOLOGICAL PSYCHOLOGY I (Le3,La3)

This course is an introduction to the physiological determinants of behaviour. The development, structure, and function of the nervous and endocrine systems are considered in detail. Topics to be covered include the brain bases of sensory, motor, and cognitive processes.

PSYC-2920(3) DRUGS AND BEHAVIOUR (Le3)

An examination of the physiological means through which drugs exert their effects on behaviour will constitute the core of this course. Topics covered include the assessment of behavioural drug effects, the basic structure and function of the nervous system and general principles of pharmacology.

PSYC-3030(3) HISTORICAL DEVELOPMENTS IN PSYCHOLOGY (Le3)

This course is concerned with the development of modern scientific psychology and the cultural, social and political backgrounds against which that development has occurred. The first part of the course deals with the major emergent themes of psychology as science and profession. The second part will choose one of the broad divisions of modern psychology--cognitivism, social, developmental, personality, etc.--and trace major historical changes into the late twentieth century. The choice of specialized topics will vary from year to year.

PREREQUISITE: PSYC-2102(3) or permission of instructor.

PSYC-3050(3) CULTURE AND PSYCHOLOGY (Le3)

This course will examine research findings, theory, and methods related to the study of human behaviour and experience as a function of culture. Culture will be interpreted to include ethnicity and social class, but may also include other societal factors that have a similarly broad effect. We will examine the influence of culture on such domains as basic perceptual and cognitive processes, human development and family processes, and issues in social, personality, clinical, and abnormal psychology. Specific methodological and theoretical issues, such as proposals for indigenous theories and methods, will also be considered.

PREREQUISITE: At least 3 credit hours in Psychology beyond the 1000-level or permission of instructor.

PSYC-3200(3) DEVELOPMENTAL PSYCHOLOGY II: CHILDHOOD (Le3)

This course complements PSYC-2200(3) as the second part of an introduction to developmental psychology. The emphasis here is on theory and research on children. Topics covered will include personality and social development, as well as areas of study that will vary from offering to offering of the course (e.g., perceptual and cognitive development beyond the basics offered in PSYC-2200(3), language, intelligence, abnormal development).

PREREQUISITE: PSYC-2200(3).

RESTRICTIONS: Students who completed PSYC-2200(3) prior to September 1, 1996 may not take this course for credit.

PSYC-3220(3) ADULT PSYCHOLOGY (Le3)

This course examines theoretical views, research methodology, and research evidence pertaining to human functioning during adulthood and aging. In addition to examining basic processes such as memory and learning, attention will be given to such topics as job selection, marriage, retirement, life satisfaction, and death and dying.

PREREQUISITE: PSYC-2200(3).

PSYC-3230(3) ADOLESCENT PSYCHOLOGY (Le3)

This course examines contemporary data and theory concerning the nature of adolescence. Topics to be covered include: definition and history of theory and research on adolescence; family power structure; parent-peer cross-pressure; sex role development; identification; cognitive development; and the youth culture.

PREREQUISITE: PSYC-2200(3).

PSYC-3300(3) EMPIRICAL APPROACHES TO PERSONALITY (Le3) This course focuses on controlled empirical studies of major personality variables and related mini-theoretical developments rather than on the grand theories of personality derived from clinical observation.

PSYC-3450(3) ORGANIZATIONAL LEADERSHIP AND DECISION MAKING (Le3) This course provides an in-depth survey of research and theory about leadership and decision making in organizations. Power, trait, behavioral, contingency-based, social exchange and transformational models of organizational leadership are examined. Additional topics include leadership styles for effective group decision making, ethics in leadership and the impact of gender and culture on leadership.

PREREQUISITES: PSYC-2400(3) or PSYC-2440(3) or BUS-2103(3).

PSYC-3470(3) PSYCHOLOGY AND THE LAW (Le3) This course will explore some of the ways in which psychological principles can be used to understand and change behaviour in legal settings. Topics to be discussed include: eyewitness testimony and identification, decision making in legal contexts, and the role of the psychologist as expert Advisor in the legal setting. Research on psychological factors in the legal system will receive special emphasis.

PREREQUISITES: PSYC-2600(3); or PSYC-2400(3) and PSYC-2410(3); or declared Major in Criminal Justice Studies or permission of instructor.

PSYC-3480(3) INTERPERSONAL COMMUNICATION (Le3) This course emphasizes the multilevel communication processes that underlie and support social interaction and relationship formation and change. Special attention is given to the differences and connections between verbal and nonverbal communication and to the rules and rituals of social interaction in everyday life. The methodologies basic to the understanding of communication processes are also stressed.

PREREQUISITES: PSYC-2400(3) or permission of instructor.

PSYC-3600(3) COGNITIVE PROCESSES (Le3) This course examines the nature of higher-order cognitive processing such as memory, thinking, problem solving, creativity, and decision making. The role of language in such processes is examined, and the application of cognitive principles in real life discussed. Demonstrations illustrating major cognitive principles and exercises for improving cognitive skills are included.

PREREQUISITES: PSYC-2600(3) or permission of instructor.

PSYC-3700(3) ABNORMAL BEHAVIOUR IN ADULTS (Le3) This course will provide information important to the understanding of psychopathologies that occur in adulthood. Various perspectives (e.g., genetic/biological, social, etc.) and theories (e.g., behavioural, cognitive, psycho-dynamic, etc.) of abnormal behaviour will be discussed. A major emphasis will be placed on current research in understanding psychopathology.

PREREQUISITES: PSYC-2102(3) or permission of instructor.

PSYC-3710(3) ABNORMAL BEHAVIOUR IN CHILDREN AND ADOLESCENTS (Le3) This course will provide information important to the understanding of psychopathologies that occur during childhood and adolescence. Various perspectives (e.g., genetic/biological, social, etc.) and theories (e.g., behavioural, cognitive, psycho-dynamic, etc.) of abnormal behaviour will be discussed. A major emphasis will be placed on current research in understanding psychopathology that occurs during childhood and adolescence.

PREREQUISITES: PSYC-2200(3) or permission of instructor.

PSYC-3720(3) BEHAVIOUR MODIFICATION (Le3) This course deals with the application of the principles of conditioning theory to the teaching and modification of human behaviour.

PSYC-3740(3) INTRODUCTION TO FAMILY PROCESSES (Le3) This course will cover the theoretical aspects of family processes. Emphasis will be given to various theoretical formulations of family dynamics and treatment strategies. The use of family therapy for the treatment of various disorders will be discussed and compared to individual treatment approaches.

PSYC-3830(3) / PSYC-4830(3) GENES, EVOLUTION, AND BEHAVIOUR (Le3) This course examines behaviour from the point of view of genetic inheritance and evolution. Emphasis is placed on the ways in which genetic analysis can help us to understand the interplay between the environment and genes in the determination of behaviour. Topics include genetic defects and chromosomal anomalies, classical ethology, population genetics, heritability estimation, and that aspect of population ethology known as sociobiology. Course content is the same for PSYC-3830(3) and PSYC-4830(3). Additional in-depth work will be required for credit at the 4000 level.

PREREQUISITE: PSYC-1000(6). Students registering at the 4000 level must have the permission of the department.

RESTRICTIONS: Students may not receive credit for both PSYC-3830(3) and PSYC-4830(3).

PSYC-3900(3) PHYSIOLOGICAL PSYCHOLOGY II (Le2, La2) This course is a continued study of the structure and function of the nervous system with an emphasis on the physiological and neurological processes underlying regulatory, instinctual and social behaviour in animals and humans, and on brain systems involved in learning and memory. Laboratories focus on research techniques in neuroscience, including neuroanatomy, histology, electrophysiology, and neuroimaging. **PREREQUISITE:** PSYC-2900(3).

PSYC-3910(3) HUMAN NEUROPSYCHOLOGY (Le3) The course assumes basic knowledge of neuroanatomy and focuses on the understanding of neural function provided by a study of congenital malformation of structure, brain disease and behavioural loss. Topics include the following: developmental anomalies and associated behaviours; plasticity and recovery of function following insult or disease; localization of function; hemispheric specialization; epilepsy. Although not a prerequisite, Human Neuropsychology would be especially useful as a background for all the following courses: PSYC-2600(3), PSYC-3600(3) and PSYC-4600(3).

PREREQUISITE: PSYC-2900(3).

PSYC-3920(3) COGNITIVE NEUROSCIENCE (Le2, La2) This course provides an introduction to the field of cognitive neuroscience, the study of the neural substrates underlying cognitive functions. The course will examine the cognitive functions performed by all of the major brain areas, including memory, language, movement, emotion, and decision-making. Specific emphasis will be placed on understanding how different brain systems interact in order to support complex cognitive behaviours. The course is expected to provide a strong foundation in the converging fields of cognitive psychology and neuroscience; laboratories are expected to provide the research skills necessary to test the cognitive functions discussed during lectures.

PREREQUISITE: PSYC-2900(3).

PSYC-3930(3) MIND, BRAIN AND BODY This course explores the new fields of psychoneuroimmunology and Positive Psychology examining how the brain and the body are influenced by psychological phenomena. Conversely,

bodily states can influence and even trigger disorders of the mind. The course focuses on the physical and psychological consequences of stress and adversity and on different means of maximizing resilience and minimizing harm. Important amongst the psychological means of promoting health are the techniques being developed as part of Positive Psychology. Positive Psychology fosters psychological and, reciprocally, physical health by promoting and strengthening positive (parasympathetic) emotions, fostering active engagement, and identifying meaningful activity.

PREREQUISITE: PSYC-2101(3) and PSYC-2102(3) or permission of the instructor. PSYC-2900(3) is highly recommended.

PSYC-4010(3) ADVANCED READING AND RESEARCH IN PSYCHOLOGY I (P) This course allows students to engage in specialized readings and/or research of their own choice under the direction of a member of the Department of Psychology. Normally only subject matter not covered in an available course will be selected. Prior to registering for this course, a student must select an Advisor, prepare an Instructor-approved course of study, and submit the course of study for review by the Psychology Honours Committee. Forms are available from the Department of Psychology outlining this procedure. Registration will not be accepted without the completed forms.

PREREQUISITE: PSYC-4100(6).

PSYC-4020(3) ADVANCED READING AND RESEARCH IN PSYCHOLOGY II (P) This course allows students to engage in specialized readings and/or research of their own choice under the direction of a member of the Department of Psychology. Normally only subject matter not covered in an available course will be selected. Prior to registering for this course, a student must select an Advisor, prepare an Instructor-approved course of study, and submit the course of study for review by the Psychology Honours Committee. Forms are available from the Department of Psychology outlining this procedure. Registration will not be accepted without the completed forms.

PREREQUISITE: PSYC-4010(3).

PSYC-4030(3) PSYCHOLOGICAL ISSUES IN HISTORICAL PERSPECTIVE (Le3) This course deals systematically with selected theoretical and methodological issues common to contemporary psychology and its recent history. In any given year, consideration will be restricted to one or two major issues to be dealt with at an advanced level. The issues selected will be made known to students in advance registration.

PSYC-4040(6) HONOURS THESIS (Le2, LaV) To complete the Honours degree each student must satisfactorily complete during his/her final year, a program of research under the supervision of at least two faculty members. Students wishing to enrol in this course should consult with the Department of Psychology.

PREREQUISITES: PSYC-4100(6) or permission of Psychology Honours Committee.

PSYC-4100(6) INTERMEDIATE RESEARCH DESIGN AND DATA ANALYSIS (Le3, La3) This lab course extends the basic research and data analysis methods introduced in 2101(3) and 2102(3). Topics in this course include intermediate research methods (e.g. computer-aided research design and literature search, construct validity), intermediate data analysis methods (e.g., analysis of variance and partial/multiple correlation techniques for selected experimental and non-experimental designs), and current issues in social science methodology. The lab component provides opportunities to design, execute, analyze, and report the results of behavioural research, and

emphasizes the use of computers in research design and data analysis (e.g., the use of such statistical packages as BMDP, SAS, and SPSS). This course is required of all students in the Psychology Honours program.

PREREQUISITE: PSYC-2102(3).

PSYC-4200(3) TOPICS IN DEVELOPMENTAL PSYCHOLOGY (Le3) This course will examine selected topics in Developmental Psychology not covered by PSYC-4250(3) Social Development and PSYC-4250(3) Cognitive Development. The exact topic(s) covered will be determined by the instructor and may vary from year to year.

PREREQUISITE: PSYC-2200(3).

PSYC-4240(3) SOCIAL DEVELOPMENT (Le3) This seminar course examines theory and research concerning social development from birth to adolescence. It will include topics such as attachment, sense of self, peer relations, play, aggression, prosocial development, moral development, family and other socialization influences, and gender role development.

PREREQUISITES: PSYC-2200(3) and PSYC-2101(3).

PSYC-4250(3) COGNITIVE DEVELOPMENT (Le3) This course introduces the student to contemporary research in areas such as memory, language, and logical thinking, that comprise the psychological study of mental growth from birth to adulthood.

PREREQUISITE: PSYC-2102(3).

PSYC-4260(3) PRENATAL AND INFANT DEVELOPMENT (S3) This seminar course examines theory and research concerning prenatal and infant development. It will include topics such as genetic and environmental prenatal influences; the perinatal period; temperament; and infant physical, sensory, perceptual, cognitive, and social development.

PREREQUISITES: PSYC-2200(3) and PSYC-2101(3).

PSYC-4300(3) TOPICS IN PERSONALITY (Le3) This course will examine selected topics in personality theory and/or research. The exact topic(s) covered will be determined by the Instructor and may vary from year to year.

PREREQUISITES: PSYC-2300(3) or PSYC-3300(3).

PSYC-4350(3) FREUD: ON PERSONALITY AND CLINICAL PRACTICE (Le3) This course, together with its sequel (PSYC-4355(3)), presents most of Sigmund Freud's psychological writing as it appears in the definitive English text, *The Standard Edition*. This first half covers Freud's theory of personality, including his concepts of the unconscious, infantile sexuality, the Oedipus complex, and dream interpretation. The course focuses on Freud's earlier writings and on the case studies of Dora, Little Hans, Rat Man, and Schreber.

PSYC-4355(3) FREUD: ON SOCIETY AND CULTURE (Le3) This course, the complement to PSYC-4350(3), is the second half of a survey of Sigmund Freud's work as it appears in the *The Standard Edition*. The concern here is with the social theories Freud developed during the second half of his career. The major writings covered will be *Totem and Taboo*, *The Future of an Illusion*, *Civilization and Its Discontents*, *Group Psychology and the Analysis of the Ego*, *Moses and Monotheism*, and the case study of the Wolf Man. A principle theme of these works is the proposition that civilization relies, somewhat precariously, on a renunciation of instinct. While stressing the large titles listed above, the course follows the idea of instinctual ambivalence through various of Freud's shorter writings on sexuality (e.g., "Civilized sexual morality and modern nervous illness") and on literature and art (e.g., "Dostoevsky and parricide").

PSYC-4400(3) TOPICS IN SOCIAL PSYCHOLOGY (Le3)

This course is designed for the student who has some background in social psychology and wants to become acquainted with ongoing areas of social psychological research. Several topics will be investigated in depth, and these may vary from year to year. Topics might include prejudice and attitude change, the effects of media, gender roles, interpersonal attraction, aggression, or others.

PREREQUISITE: PSYC-2410(3).

PSYC-4410(3) RESEARCH SEMINAR IN SOCIAL PSYCHOLOGY (Le3)

This course is designed for the student who has some background in social psychology and methodology and wants to pursue some aspect of it in depth. Each year the course will focus on a particular broad theoretical or applied area of social psychology (e.g., social cognition, group processes, interpersonal relationships) and students will pursue individual projects from within that area. Through exposure to these individual projects and a core of assigned readings, students will attempt to develop an understanding of the theoretical and methodological issues that are important to the development of research in the chosen area of social psychology.

PREREQUISITES: PSYC-2410(3) and PSYC-4100(6) or permission of instructor.

PSYC-4450(3) ADVANCED ORGANIZATIONAL PSYCHOLOGY (Le3)

This course focuses on current theory and research in a wide range of areas within the field of industrial/organizational psychology. Critical examination of methodology, instrumentation, logic and philosophy underlying current theories are emphasized, as is applicability to a variety of organizational settings.

PREREQUISITES: PSYC-2440(3) or BUS-2103 (3), and PSYC-2101(3) or permission of instructor.

PSYC-4600(3) TOPICS IN HUMAN LEARNING AND MEMORY (Le3)

This course examines current research and theory in human learning and memory, with a particular emphasis on the historical development of issues in this area. The range of topics will vary depending on the interests of students.

PREREQUISITES: PSYC-2600(3) or permission of instructor.

PSYC-4610(3) TOPICS IN PERCEPTION (Le3) A research-based course consisting of lectures, demonstrations, and seminars on special topics relating to sensory and perceptual mechanisms in humans and non-humans. The range of topics will vary, depending on particular interests of students and current interests of the instructor.

PREREQUISITES: PSYC-2610(3); PSYC-3611(3) is also recommended.

PSYC-4630(3) TOPICS IN COGNITIVE PSYCHOLOGY (Le3)

This course examines a specific theoretical or applied topic in cognitive psychology. Sample topics might include: memory development, inhibitory mechanisms in cognition, cognitive psychology in education, and cognitive retraining after head injury. Please consult the Psychology Department for the current topic.

PREREQUISITES: PSYC-2600(3) or permission of instructor; PSYC-4100(6) is recommended.

PSYC-4700(3) TOPICS IN ABNORMAL BEHAVIOUR (Le3)

This is an advanced level seminar in abnormal psychology. The focus of the course will be on recent research related to theories and mechanisms of abnormal behaviour. Topics will include factors related to the development, maintenance, and treatment of abnormal behaviour in children and adults.

PREREQUISITES: PSYC-4100(6) or permission of instructor.

PSYC-4730(3) BIOLOGICAL CONSIDERATIONS IN CLINICAL PSYCHOLOGY (Le3)

This course will deal with

the biological bases of several psychological disorders. In addition, the various psychotherapeutic and pharmacological treatments will be discussed and compared. Topics may include disorders such as alcoholism, anorexia nervosa, mania, depression, schizophrenia, Parkinsonism, Huntington's Chorea, Alzheimer's disease.

PSYC-4750(3) PSYCHOLOGICAL TESTING (Le3)

This course deals with the theory, construction, and use of psychological tests. Primary emphasis is given to exploring the basic concepts in testing and general ability tests.

PSYC-4760(3) INTRODUCTION TO COUNSELLING THEORY (Le3)

This course is an introduction to the theories and publications of the major contributors to counselling and psychology.

PREREQUISITE: PSYC-4100(6).

PSYC-4770(3) INTRODUCTION TO INTERVIEWING (Le3)

This course is an introduction to the interview, focussing primarily on the therapeutic interview. Factors such as verbal and non-verbal communication, client expectations, and relationship variables will be examined.

PREREQUISITE: PSYC-4760(3).

PSYC-4800(3) TOPICS IN ANIMAL LEARNING (Le3)

This course examines the mechanisms that underlie simple forms of learning in animals. Topics may vary from year to year.

PREREQUISITES: PSYC-2800(3) or permission of instructor.

PSYC-4830(3) GENES, EVOLUTION, AND BEHAVIOUR see PSYC-3830(3)**PSYC-4900(3) TOPICS IN PHYSIOLOGICAL PSYCHOLOGY (Le3)**

This is an advanced seminar in physiological psychology. Topics are dependent upon the Instructor; students wanting more information are advised to check with the Psychology Department before enrolling.

PREREQUISITE: PSYC-3900(3).

PSYC-4920(3) TOPICS IN COGNITIVE NEUROSCIENCE (Le3)

This course provides a detailed survey of the emerging field of cognitive neuroscience. This interdisciplinary field examines the neural mechanisms contributing to cognitive, affective, and social processes. Topics may vary from year to year, and are discussed from neuroscience and behavioural perspectives with special emphasis on solving the research-design challenges associated with analyzing complex behaviours.

PREREQUISITE: PSYC-2900(3) and PSYC-3920