

23/84

THE UNIVERSITY OF WESTERN ONTARIO

LONDON

CANADA

Department of Psychology

GRADUATE COURSES 1983-84

Psychology 500a

LEARNING, MOTIVATION AND BEHAVIOUR

N. Innis

Survey and discussion of selected theory and research in animal and human learning, motivation and animal behaviour/ethology. Area faculty member responsible for the course in a particular year can provide details of content and format.

Half course; one term

Psychology 501

RESEARCH SEMINAR IN LEARNING
AND ANIMAL BEHAVIOUR

Area Faculty

Once every week faculty, students, and interested others meet to describe and discuss recent research in learning and animal behaviour. An attempt is made to enlist individuals from outside the department and from nearby universities to supplement presentations by in-house participants. The interests of participants are quite varied and topics cover broad areas including: learning and memory; social behaviour and communication; and psychopharmacology. It has long been held by several members of the group that Homo sapiens might well be animals and that they indeed can learn. As a result studies of human behaviour have been discussed in the past and are encouraged in the future.

Full course; two terms

Psychology 513b

PAIN

G. Rollman

Topics include the psychological, clinical, and physiological components of the pain experience, the major theories of pain mechanisms, congenital insensitivity to pain, psychophysical assessment of pain thresholds and placebo effects, and the treatment of pain by analgesic drugs, hypnosis, neurosurgery, acupuncture, electrical stimulation, and operant conditioning. Meetings will be arranged with medical personnel concerned with clinical diagnosis and control of acute and chronic pain.

Half course; one term

8/84

Psychology 519y

RESEARCH SEMINAR IN PSYCHOBIOLOGY

S. Leung

The course consists of a two-three week mini-course on technical subjects at the beginning of the year, followed by research presentation by students and faculty in the psychobiology area. The course is required for all graduate students in the area, and meetings will be held approximately every two weeks.

Half course; two terms

Psychology 525a

INTRODUCTION TO BRAIN AND BEHAVIOUR

C. Vanderwolf

A biological course relevant to applied areas of psychology. Topics include: brain structure (including dissection), brain research relevant to psychosurgery, brain electrical activity including EEG, electroconvulsive shock, neurochemistry in relation to psychological state, behavioural pharmacology of drugs used in psychiatric disorders. May serve as a prerequisite to 526b.

Half course; one term

Psychology 526b

CLINICAL NEUROPSYCHOLOGY

D. Kimura

This course will concentrate on those aspects of nervous system phenomena which are pertinent to a neurological setting. Topics include: the neurological examination; the cerebrovascular system, epilepsy, movement disorders, testing for disorders of perception, memory, visuospatial ability and language. Video-tapes and detailed consideration of individual patients' test patterns will form an important part of the instructional content. Prerequisite: 525a or undergraduate physiological psychology.

Half course; one term

Psychology 527a

THE LIMBIC SYSTEM AND BEHAVIOUR

C. Vanderwolf

This course will review anatomical, physiological, pharmacological and behavioural studies of the limbic system, especially the hippocampal formation, septal nuclei, amygdala and cingulate cortex. The validity of the limbic system concept and its relevance to emotion and memory will be discussed.

Half course; one term

Psychology 527b

BEHAVIOUR IN RELATION TO
NEUROPATHOLOGICAL PROCESSES

P. Cain

This seminar course will attempt to relate behavioural abnormality to underlying neuropathology in a number of human brain disease states. Topics to be covered will include Alzheimer's disease, Huntington's chorea and epilepsy. Other topics may include narcolepsy, mental retardation and schizophrenia. Recent advances in neurobiological research in these topics will form the core of material to be covered, and evidence from animal models will be included where possible.

Half course; one term

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Psychology 533a DEVELOPMENTAL METHODOLOGY M. Pressley

Methods in experimental child psychology. Interpretation of developmental data.

Half course; one term

Psychology 540 RESEARCH DESIGN R. Gardner

This course serves as a general survey and introduction to statistics at the graduate level stressing a conceptual understanding and appreciation of major analytic procedures. Topics covered include the logic of inferential statistics, correlation and regression, univariate and multivariate analysis of variance (both traditional and regression approaches), multiple regression, factor analysis and causal modeling. Students are encouraged to become familiar with the major computer statistical packages and the fundamentals of Fortran programming.

Full course; two terms

Psychology 541b PERSONALITY ASSESSMENT D. Jackson

This seminar will emphasize theoretical and research problems in the assessment of personality, intellect, vocational interests, and psychopathology. The topics to be considered will include personality scale construction, factor analysis, response styles, faking, and the assessment of invalidity, clinical judgments and inference, actuarial characterization of a person and computer-based interpretation, differential diagnosis and other recurrent themes. Tests reviewed will include the MMPI, the Personality Research Form, the Jackson Personality Inventory, the Basic Personality Inventory and the Jackson Vocational Interest Survey. Opportunities will be provided for individual projects.

Half course; one term

Psychology 542a INDIVIDUAL AND GROUP DIFFERENCES IN INTELLIGENCE AND MENTAL ABILITIES T. Vernon

This course will provide a broad overview of the main issues and controversies that have arisen in the development of theories about the nature of intelligence. Topics to be discussed will include major theories of intelligence from Galton to the present day; theories about the growth and modifiability of intelligence; evidence for and against environmental and genetic explanations of individual and group differences in intelligence; recent cognitive and biological approaches to the study of intelligence; and issues related to the measurement of intelligence. The course will consist of a combination of lectures, seminar presentations, and discussion of material covered by the text.

Half course; one term

23/84

Psychology 543b

INTRODUCTION TO MULTIDIMENSIONAL SCALING
AND FACTOR ANALYSIS OF TWO- AND
THREE-WAY DATA

R. Harshman

An introduction to the basic concepts and methods of Multidimensional Scaling and Factor Analysis stressing their underlying unity and simplicity. Emphasis will be placed on "learning-by-doing", so students will get experience in the art of actual data analysis, as well as the basic theory involved. After the traditional two-way methods have been introduced, time will be devoted to the newer three-way analysis methods, including their special advantages and limitations. Time permitting, students will have an opportunity to conduct original monte-carlo research on unexplored properties of these methods.

Half course; one term

Psychology 546b

NONPARAMETRIC STATISTICS

T. Vernon

This course will include a broad survey of nonparametric statistical tests and procedures. Principles underlying nonparametric methods will be covered, as will the application of these methods to a variety of experimental and nonexperimental, and univariate and multivariate designs. Comparisons will be drawn between analogous nonparametric and parametric methods, and the appropriateness of using each of these methods in different situations will be discussed.

Half course; one term

Psychology 557y

HUMAN AND COMPUTER VISION

Z. Pylyshyn

This course will explore recent attempts to develop computer models of vision. A number of approaches to computer vision will be surveyed briefly. The central focus of the course will be on modelling "early vision" or the automatic low level visual processes, from the first stages of optical analysis up to the stage where the process becomes voluntary and knowledge-dependent. Special emphasis will be on the approach of Marr and Ullman. Other topics covered may include spatial frequency analysis, stereopsis, motion perception, and the perception of 3-D structure from motion, texture and shading.

Half course; two terms

Psychology 560a

SOCIAL PSYCHOLOGY THEORY

M. Atkinson

A research oriented analysis of representative social psychology theories; a consideration of methods and findings in various areas of social psychology, and an analysis of the issues involved in the empirical investigation of social behaviour.

Half course; one term

Psychology 569b

RESEARCH METHODS IN SOCIAL PSYCHOLOGY

R. Sorrentino

This course will be devoted to coverage of the major empirical designs and procedures in social and personality psychology. It will examine quasi-experimental and correlational as well as experimental designs which have particular relevance to the problem of social psychological and personality investigation. Observation, attitude measurement, personality assessment, field studies, and survey research are among the other topics to be covered. Discussion will be focused on contemporary substantive topics by which the utility and liabilities of various procedures and designs can be illustrated. A major portion of the course will be devoted to development of student research suitable for the M.A. thesis or an original study.

Half course; one term

Psychology 571

PSYCHOLINGUISTICS

A. Paivio

The purpose of the seminar is to explore problems, research, and theory on the psychology of language. Topics include the structure of language as seen by linguists and psycholinguists; language acquisition; semantics; the effects of linguistic and psychological variables on the perception, comprehension, learning, retention and production of language; language pathology; bilingualism; etc.

Full course; two terms

Psychology 581a

PERSONALITY THEORY AND RESEARCH

P. Rushton

A research oriented analysis of representative personality theories; a consideration of methods and findings in various areas of personality research, an analysis of the issues involved in the empirical investigation of personality.

Half course; one term

Psychology 585b

PERSON PERCEPTION

S. Pepper

(See Instructor in January for Course Description)

Half course; one term

Psychology 589a

PROBLEMS IN INDUSTRIAL PSYCHOLOGY

D. Jackson

This seminar will review current research in areas of continuing interest in industrial psychology. Examples of possible areas from which specific seminar topics will be selected include personnel selection, career development, job analysis, employee-evaluation, motivation, morale and attitudes, industrial relations, and training.

Half course; one term

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Psychology 590

M.A. THESIS

Faculty

Psychology 604b

APPLICATIONS OF LEARNING PRINCIPLES
TO INSTRUCTIONAL DESIGN

N. Vye

Students will consider the major theories of learning and their relationship to the design of instructional procedures in education.

Half course; one term

Psychology 609b

PRACTICUM IN ADULT DIAGNOSTIC
ASSESSMENT

I. Gotlib

This course is designed to provide students with basic knowledge and experience in the administration, scoring, interpretation, and integration of the major psychodiagnostic instruments currently used in clinical practice with adults. Supervised experience assessing adults in clinical settings is included, with particular emphasis on both the integration of assessment data and report-writing. Students are expected to have a strong background in adult psychopathology.

Half course; one term

Psychology 610y

PRACTICUM IN ADULT BEHAVIOUR MODIFICATION

D. Evans

Students will develop an ability to use a range of behavioural techniques such as systematic desensitization, self control, cognitive behaviour modification, contingency management, and skill training. Supervised application of techniques will occur in one or more of the applied settings.

Half course; two terms

Psychology 613a

PROGRAM EVALUATION

C. Seligman

The purpose of this course is to introduce the student to the basic concepts, methods, and problems in program evaluation. Among the topics covered are: Management and conduct of evaluations, quasi-experimental designs, utilization and policy implications of program evaluation results, etc.

Half course; one term

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Psychology 616b

PRACTICUM IN PROGRAM EVALUATION

C. Seligman

The purpose of the course is to give students actual experience in designing, and perhaps conducting, an evaluation of an ongoing or new program in an applied setting. In addition, regular classes will be held in which students present their projects as well as discuss current literature.

Half course; one term

Psychology 617b

PRACTICUM IN CHILD ASSESSMENT

J. Dumas

The course is designed to teach students to administer the major tests employed in clinical practice with children. Supervised experience assessing children in clinical settings is included. Emphasis is also placed on the integration of assessment data and reporting. Students are strongly advised to take course 621a before taking this practicum.

Half course; one term

Psychology 621a

CHILD PSYCHOPATHOLOGY AND
DEVELOPMENTAL DISORDERS

D. Wolfe

Discussion on concepts and research findings in child psychopathology and developmental disorders. Definitions, etiology and models of treatment and prevention associated with childhood disorders will be considered.

Half course; one term

Psychology 623a

CLINICAL HEALTH PSYCHOLOGY

V. Valley
(Course Coordinator)

"Clinical Health Psychology" is a graduate level course on applied clinical methods of assessment and intervention in health psychology/behavioural medicine, with particular focus on areas of expertise of the staff teaching the course. These areas include: acute and chronic pain, anorexia nervosa, cardiovascular disorders, rehabilitation medicine, general medicine and surgery, and sleep disorders. The role of the clinical psychologist in a medical, health or hospital setting, will also be addressed. The course will include lectures, demonstrations of some assessment and intervention methods, and possibly seminar presentations by students.

Students enrolling for the course should have a basic background in clinical psychology, including courses in psychopathology, clinical assessment and interviewing. It is preferable, but not essential, to have taken (1) Behavioural Medicine (618a) and (2) Practicum in Behavioural Medicine (619b).

Teaching Staff: Dr. Georgina Harris, Dr. Warren Nielson, and Dr. Victoria Valley, Department of Psychological Services, University Hospital.

Half course; one term

8/3/84

Psychology 624b

PSYCHOTHERAPY RESEARCH

N. Kuiper

A review of major theoretical and methodological issues in the field of psychotherapy research. Important examples of existing psychotherapy research will be critically examined.

Half course; one term

Psychology 625a

BEHAVIOUR MODIFICATION

N. Kuiper

Discussion of psychological concepts and research findings in the field of behaviour modification, including their application to the etiology, treatment and prevention of various psychopathological disorders.

Half course; one term

Psychology 627b

PSYCHOPATHOLOGY

R. Neufeld

A survey of research strategies and prevalent findings associated with severe and relatively mild forms of behavioural problems. Sources of information range from biological models to behavioural levels of analysis with an emphasis on the interface between alternate approaches.

Half course; one term

Psychology 629b

COMMUNITY PSYCHOLOGY - METHODS

D. Wolfe

Students completing this course will be familiar with principal techniques and methods employed in community psychology. Topics include prevention, crisis intervention consultation and systems employing paraprofessionals.

Half course; one term

Psychology 630a

CURRENT PERSPECTIVES IN PSYCHOTHERAPY

I. Gotlib

The major theoretical approaches to psychotherapy will be critically examined. Particular emphasis will be placed on theoretical foundations and principles and mechanisms involved in the therapeutic process. Practical examples of each therapy will be presented where possible and relevant research critically examined. Students will be encouraged to develop their own models of psychotherapy.

Half course; one term

83/84

Psychology 635a

PROFESSIONAL FOUNDATIONS OF
APPLIED PSYCHOLOGY

D. Evans

The course serves as an orientation to professional issues and applied skills relevant to all areas of applied psychology. Ethics, standards of practice and service, interviewing techniques, consultation methods and other professional activities will be considered.

Half course; one term

Psychology 637a

MARITAL AND FAMILY THERAPY

A. Leschied

Major theories of marital and family therapy will be examined. Assessment, intervention strategies and research associated with each theory will be critically reviewed.

Half course; one term

Psychology 639y

PRACTICUM IN CHILD INTERVENTION

Director of the
Practicum and
Internship Program

An independent practicum with a supervisor in one of the practicum settings. This practicum is for senior students in the program who have had previous practica or applied experience.

Half course; two terms

Psychology 641y

PROSEMINAR IN APPLIED PSYCHOLOGY

Applied Psychology
Faculty

Orientation meetings are held to introduce students to the Applied Psychology Program, the Faculty, the Adjunct Faculty and the various settings in the community. Other topics concerning professional, research, and ethical issues may be arranged on an ad hoc basis. Students are required to attend and write a one-page overview of four relevant colloquia, workshop, meetings each term.

Half course; two terms

Psychology 642b

ORGANIZATIONAL PSYCHOLOGY

J. Meyer

A review of the major theoretical and methodological issues in the field of organizational psychology.

Half course; one term

83/84

Psychology 644y

PRACTICUM IN ADULT INTERVENTION

Director of the
Practicum and
Internship Program

An independent practicum with a supervisor in one of the practicum settings. This practicum is for senior students in the program who have had previous practica or applied experience.

Half course; two terms

Psychology 645y

PRACTICUM IN CLINICAL
NEUROPSYCHOLOGY I

D. Kimura

This is an introduction to practical applications of Clinical Neuropsychology. The course of instruction includes attendance at various hospital rounds as well as supervised practical experience in taking medical histories, administering and scoring basic tests of intelligence and memory on neurological patients, and administration and scoring of specialized neuropsychological tests.

PREREQUISITE - Psychology 526b

Half course; two terms

Psychology 646y

PRACTICUM IN CLINICAL
NEUROPSYCHOLOGY II

D. Kimura

This is an advanced practicum for students in Clinical Neuropsychology. It will comprise attendance at several hospital rounds, supervised testing and report writing on individual cases, reading pertinent literature, and learning special procedures.

PREREQUISITE - Psychology 526b

Half course; two terms

Psychology 647b

PSYCHOPHARMACOLOGICAL CONSIDERATIONS
IN HEALTH PSYCHOLOGY

R. Hinson

Drugs are widely used in modern society, both for medical and recreational purposes. The intent of this course is to examine the consequences of both licit and illicit drug use for individual well-being. Drugs used in the treatment of psychopathology will be discussed in terms of possible adverse side-effects. Additionally some of the major medical complications of illicit drug use will be considered.

Half course; one term

Psychology 650a

PSYCHOLOGY OF AGEING, PART I

M. Schnore

A critical examination of findings, methods and theories in the psychology of ageing. Topics to be covered shall include changes in: intelligence, learning, and memory.

Half course; one term

Psychology 651b

PSYCHOLOGY OF AGEING, PART II

M. Schnore

Topics to be covered shall include: personality, rigidity, cautiousness and psychopathology.

Half course; one term

Psychology 652b

THE ORIGINS OF LANGUAGE AND COMMUNICATION

C. Miller

This course/seminar will take an interdisciplinary approach to the study of the phylogeny and ontogeny of language and communication. Students from a variety of disciplines, e.g., anthropology, linguistics, communicative disorders, animal behaviour and zoology and psychology will be encouraged to participate. The seminar will be concerned with such issues as 1) the social and perceptual/cognitive origins of communication in the first year; 2) child language development; 3) sociolinguistics and ethnography; 4) communicative development in disabled (e.g., hearing impaired) populations, and 5) nonhuman communication systems. The seminar will be devoted to active student participation.

Half course; one term

Psychology 653a

INFANT DEVELOPMENT

C. Miller

This is a survey course examining some of the major issues and developmental phenomena occurring during the period from conception to age two. Normal developmental processes in the areas of cognitive, language and social development will be emphasized, with periodic explorations into aberrant development and social policy issues.

Half course; one term

Psychology 654b

THE PSYCHOLOGY OF WOMEN

C. Miller

This is a survey course/seminar which examines the influence of social, psychological, and biological factors on the development of women and on the social-psychological issues that are important and/or unique to women. Some of the topics covered include: theories of sex-role development; sex-role socialization in the home, the schools, and the media; traditional and non-traditional roles of women; the changing role of the family and career options for women; sexuality and reproduction; women and mental health; women in cross-cultural perspective; traditional and alternative models of psychotherapy and self-help groups; and psychological androgyny. Emphasis will be placed upon the examination and critical evaluation of the available research in these areas as well as upon the examination of the applicability of traditional and contemporary psychological models to the experiences of women. Students will be required to conduct one seminar presentation in addition to other written work.

Half course; one term

Psychology 656a

MEMORY IN CHILDREN

M. Pressley

Children's learning and memory of verbal material, including reading, language development, and communication.

Half course; one term

Psychology 666b

ATTITUDE FORMATION AND CHANGE

J. Olson

An analysis of research and theory in the area of attitudes. Topics to be covered include attitude formation, attitude change, attitude-behaviour consistency, and the effects of attitudes on memory.

Half course; one term

Psychology 690

Ph.D. THESIS

Faculty

Psychology 693

INTERNSHIP

B. Bucher

(Applied Area Requirement)

Psychology 709y

STRUCTURE OF THE NERVOUS SYSTEM

C. Vanderwolf

This course includes: demonstration and gross dissection of human and sheep brain; microscopic study of serial sections of human brain-stem; and a series of lectures and required readings. Student progress is assessed by oral examinations.

Half course; two terms