

84/85

THE UNIVERSITY OF WESTERN ONTARIO

LONDON

CANADA

Department of Psychology

GRADUATE COURSES 1984-85

Psychology 510b

MICROCOMPUTER APPLICATIONS IN THE LAB

R. St. John

The course will involve learning about and utilizing microcomputers in various laboratory settings. An introduction will be given to the hardware associated with microcomputers and the various input/output devices available. Emphasis will be on programming and interfacing the 6502 microprocessor (e.g. Apple II). A problem solving approach will be stressed, with students designing programs or experiments which can provide useful results or data, and solving the problems involved in running those experiments with computers. Their completed programs will be made available to the members of the class. Students will be encouraged to work on projects at their own level of computer competence.

Half course; one term

Psychology 513b

PAIN

G. Rollman

Topics include the psychological, clinical, and physiological manifestations of the pain experience, the major theories of pain mechanisms, congenital insensitivity to pain, individual and sex differences of the sensory and affective components of pain, placebo effects, and the treatment of pain by analgesic drugs, hypnosis, neurosurgery, acupuncture, electrical stimulation, cognitive-behavior therapy, 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

Psychology 524y

RESEARCH SEMINAR IN PSYCHOBIOLOGY

D. Kimura

Faculty and students in Psychobiology and related areas meet every two weeks to report on ongoing research. Some didactic topics are also covered.

Half course; two terms

8/1/85

Psychology 525a

INTRODUCTION TO BRAIN AND BEHAVIOUR

M. Goodale &  
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 focuses on those aspects of neuropsychology which are pertinent to a neurological setting. Topics include: the neurological examination, the cerebrovascular system, epilepsy; testing for disorders of perception, memory, visuospatial ability, constructional 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 528a

THE MOTOR SYSTEM

C. Vanderwolf

This course will review anatomy and function of the spinal cord, brain stem, cerebellum, striatum and cerebral cortex in relation to motor activity. Following an initial series of lectures (4-6 weeks) students will be asked to present seminars on topics of their own choosing (topics chosen must be relevant to the content of the course).

Half course; one term

Psychology 528b

VERTEBRATE AND INVERTEBRATE  
NEUROETHOLOGY

P. Cain

Neuroethology is a hybrid field that combines the approaches of laboratory neurobiology and field ethology in order to determine the mechanisms of natural behaviors. This seminar course will draw from recent neuroethological studies involving both vertebrate and invertebrate species. General topics to be covered may include signal detection, orientation, localization, hormonal influences on behavior, and the control of complex behavioral sequences, among others.

Half course; one term

84/85

Psychology 533b

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, discriminant function analysis, canonical correlation 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 or 580b

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, the Multidimensional Aptitude Battery, 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

8/1/85

Psychology 546b

MULTIPLE REGRESSION

T. Vernon

This course focuses on the use of multiple regression analysis in behavioral science research. Basic principles of multiple regression, its use as an alternative to the analysis of variance and covariance, and its extension to multivariate procedures such as MANOVA, canonical correlation, and discriminant analysis will be examined.

Half course; one term

Psychology 553b

TOPICS IN COGNITIVE SCIENCE

Z. Pylyshyn

The basic assumptions of cognitive science are analysed and contrasted with physiological behavioral and phenomenological approaches to psychological explanation. The idea of representation-governed behavior and its relation to folk psychology is examined. Notions of computation and strong equivalence of processes are developed. Empirical support for the computational view of mind is discussed and examples of computational theories evaluated in several domains, such as vision, language or reasoning. Lectures will follow the book "Computation and Cognition: Toward a Foundation for Cognitive Science," by Zenon W. Pylyshyn.

Half course; one term

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 561b

RESEARCH METHODS IN SOCIAL PSYCHOLOGY

J. Olson

A coverage of the major empirical designs and procedures in social psychology, illustrated with examples from the current literature. A goal of the course is the development of student research suitable for the M.A. thesis or an original study.

Half course; one term

Psychology 564y

COMPUTERS IN HUMAN RESEARCH

R. Sorrentino

This course is devoted to determining the utility of the computer for psychological research with tumour. The major objective of the course is to develop software which can be used in the laboratory by students and research investigators. In addition, the course is designed to give "hands-on" experience with the computer. Basically, students will choose an area of psychology and develop software for research in that area. The course will follow the research seminar model, where students present their research ideas to the class for discussion and enlightenment. The course is a half-course meeting over a full year (once every two weeks).

Half course; two terms

84/85

Psychology 570

VERBAL LEARNING AND MEMORY

A. Paivio

Evaluation of contemporary theory and research in verbal learning and memory, with an emphasis on coding and mediating processes, structure and organization, and theoretical issues.

Full course; two terms

Psychology 588a

PERSONNEL SELECTION

D. Jackson

This seminar will review contemporary psychological research and practice in personnel recruitment, selection, classification, and placement. Topics may include job analysis; the use of measures of aptitudes, biographical information, personality, and vocational interests; as predictors; the employment interview; validity generalization; work samples; criterion definition; test and criterion bias and the selection of ethnic and linguistic minorities; and special selection problems, such as screening for theft proneness, alcoholism, and mental illness.

Half course; one term

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 606b

EDUCATIONAL ASSESSMENT

N. Vye

The course will provide an overview of theory, methods and issues in educational assessment. Particular emphasis will be placed on the assessment of handicapped children, and on measures designed to provide information that is relevant to classroom teaching and learning. The measures to be covered will include readiness, intelligence, achievement, and diagnostic and prescriptive measures. Students will also consider the applicability of developments in dynamic assessment and instructional psychology to educational assessment.

Half course; one term

84/85

Psychology 609a

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 required to have a strong background in adult psychopathology.

Half course; one term

Psychology 611y

PRACTICUM IN CHILD BEHAVIOR MODIFICATION

M. Keller

Supervised experience in behaviour modification procedures with children.

Half course; two terms

Psychology 614y

PRACTICUM IN BEHAVIOURAL ASSESSMENT

M. Keller

An introduction to the techniques and practice of assessment for behaviour therapy. Seminars will focus on current trends in assessment for treatment and evaluation. Students will complete supervised assessments, brief treatments and outcome evaluations.

Half course; two terms

Psychology 617y

PRACTICUM IN CHILD ASSESSMENT

J. Dumas

The course is designed to teach students to administer the major tests employed in clinical practice with children (first term) and to acquire supervised experience in child assessment in clinical settings (second term). Emphasis will be placed on the integration of assessment data and reporting. Students are strongly advised to take courses 621a and 635a before taking this practicum.

Half course; two terms

Psychology 618a

BEHAVIOURAL MEDICINE

R. Martin

An introduction to theory and research in behavioural medicine. Topics will include: human psychophysiology and measurement of physiological functions, biofeedback, stress and disease, health-care behaviours, pain and pain regulation, and life-style management.

Half course; one term

84/85

Psychology 619b

PRACTICUM IN BEHAVIOURAL MEDICINE

R. Martin

Supervised experience in the therapeutic applications of behavioural techniques with medical problems. Students will work in treatment settings, and will use behavioural techniques in the management of pain, stress, rehabilitation, adherence to medical regimes, and other medical problems. Seminars will consist of presentations of intervention techniques and relevant research, and case presentations.

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 622a

MENTAL RETARDATION

J. Albin

Discussion of psychological concepts and research findings in the field of mental retardation, including definition, etiology, treatment and prevention.

Half course; one term

Psychology 623a b

CLINICAL HEALTH PSYCHOLOGY

W. Nielson  
(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. Warren Nielson, Dr. Georgina Harris, and Dr. Victoria Valley, Department of Psychological Services, University Hospital.

Half course; one term

8/1/85

Psychology 624b

PSYCHOTHERAPY RESEARCH

J. Neufeld

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

D. Wolfe

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 626b

CLINICAL RESEARCH METHODS

J. Neufeld

The course is designed to inform students about the clinical use of quantitative methods designed to answer immediate applied and research questions. Basic mathematical computations are discussed in terms of their uses for condensing clinical data.

Half course; one term

Psychology 627a

PSYCHOPATHOLOGY

J. 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 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



84/85

Psychology 633b

GROUP COUNSELLING AND PSYCHOTHERAPY

K. Berg

An introduction to the theory and practice of basic group counselling and psychotherapy approaches. The course emphasizes the common elements of group process and therapy, although major models of group therapy will be covered.

627a - Prerequisite  
Half course; one term

Psychology 635a

PROFESSIONAL FOUNDATIONS OF  
CLINICAL PSYCHOLOGY

J. Dumas

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

Half course; one term

Psychology 639y

PRACTICUM IN CHILD INTERVENTION

G. Moran

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 CLINICAL PSYCHOLOGY

N. Kuiper

Students are required to attend and write a one-page overview of three relevant clinical colloquia, workshops, and/or meetings each term. Other topics concerning professional, research, and ethical issues may be arranged on an ad hoc basis.

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

Psychology 644y

PRACTICUM IN ADULT INTERVENTION

G. Moran

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

84/85

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 648y

RESEARCH METHODS IN CLINICAL  
NEUROPSYCHOLOGY

D. Kimura

This course is typically restricted to graduate students specializing in Clinical Neuropsychology. It deals with clinical and case-study research.

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

84/85

Psychology 690

Ph.D. THESIS

Faculty

Psychology 693

INTERNSHIP

G. Moran

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.

Recommended text: Heimer, L. (1983). The human brain and spinal cord.  
Springer-Verlag.

Half course; two terms