

85/86

THE UNIVERSITY OF WESTERN ONTARIO

LONDON

CANADA

Department of Psychology

GRADUATE COURSES 1985-1986

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 512a

PHYSIOLOGICAL BASIS OF VISUAL PERCEPTION

B. Timney

This course will examine selected examples of fundamental visual phenomena and their explanation in terms of known physiological principles and mechanisms. Attention will be paid to physiological studies in animals and psychophysical investigations in man. Topics to be covered may include resolution acuity, vernier acuity, stereopsis, form perception and motion perception.

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, assessment of the sensory and affective components of pain in the laboratory and the clinic, 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

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Psychology 524y

RESEARCH SEMINAR IN PSYCHOBIOLOGY

M. Goodale

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

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: Psychology 525a or undergraduate physiological psychology

Half course; one term

Psychology 527a

EVOLUTIONARY BIOLOGY AND BEHAVIOUR

M. Goodale

(Advanced Topics in Psychobiology)

This course will introduce students interested in the biological foundations of behaviour to some basic concepts of evolutionary theory and population genetics. Topics will include evolutionary stable strategies (ESS), optimality theory, inclusive fitness, and a number of other current issues in the evolution of behaviour.

Half course; one term

Psychology 527b

HUMAN SEX DIFFERENCES

D. Kimura

(Advanced Topics in Psychobiology)

This course takes a biological approach to understanding the differences in behaviour between men and women. Topics will include the ultimate causes of sexual dimorphism, an evolutionary approach to sex roles in human societies, genetic and hormonal determinants of sexual differentiation, sex differences in brain organization, and hormonal influences on cognitive function.

Half course; one term

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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.

Full course; two terms

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

Psychology 547b

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 556y

SEMINAR IN COGNITIVE PROCESSES

S. Lupker

Please see instructor for more details.

Half course; two terms

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Psychology 555a

SOCIAL DEVELOPMENT

D. Pederson

This seminar will be a survey of current theory and research in social development. Topics will include: infant-parent attachment, infant social behaviour, social cognition, imitation learning, moral development, aggression, sex role development, child rearing practices, and peer relationships.

Half course; one term

Psychology 557y

HUMAN AND COMPUTER VISION

Z. Pylyshyn

A survey of recent research and theory in cognitive and noncognitive aspects of visual perception. This will be a seminar course with topics to be determined by student interests.

Half course; one term

Psychology 560a

SOCIAL PSYCHOLOGY THEORY

J. Olson

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

R. Sorrentino

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 569b

SPECIAL TOPICS IN SOCIAL PSYCHOLOGY
THE SOCIAL PSYCHOLOGY OF THOUGHT AND ACTION

R. Sorrentino

This course will consider concepts and research findings related to the interaction of motivation and cognition in determining social behaviour. Topics to be discussed follow along four dimensions: 1) the Self (e.g., self conflict and interpersonal behaviour; the self, achievement, and personal goals); 2) Affect (e.g., affect and social cognition; affect, attribution, and empathy; emotion, cognition, and action); 3) Control (e.g., antecedents and implications of memory distortion; uncertainty, motivation and cognition); 4) Goals (e.g., applications of memory models to motivational phenomena; the role of goals and control in information processing; a theory of action emergence). The classes will be interactive in nature.

Half course; one term

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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 586a

THE PSYCHOLOGY OF HUMAN SEXUAL BEHAVIOUR

W. Fisher

This course is designed to acquaint students with theory and research concerning the psychology of human sexuality. The course will begin with an introduction to the scientific study of sex, and will deal subsequently with theoretical and methodological approaches in this area. The course will then focus on topics such as reactions to pornography, sex-related health care, gender differences in sexuality, and sexuality and disability. Students will prepare and present in the seminar a research proposal or review of the literature in one of the above or related areas.

Half course; one term

Psychology 590

M.A. THESIS

Faculty

Psychology 591y

PRACTICUM IN INDUSTRIAL/
ORGANIZATIONAL PSYCHOLOGY

J. Meyer

Please see instructor for more details.

Half course; two terms

Psychology 604a

APPLICATIONS OF LEARNING PRINCIPLES
TO INSTRUCTIONAL DESIGN

M. Pressley

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

Half course; one term

Psychology 609a

PRACTICUM IN ADULT DIAGNOSTIC ASSESSMENT

R. Martin

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

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Psychology 61ly

PRACTICUM IN CHILD BEHAVIOUR MODIFICATION

M. Keller

This course provides supervised experience in the design, implementation, and evaluation of behavioural treatment and training procedures for clinic-referred children. Clients may present with learning, emotional, behavioural and/or developmental disabilities. Experience with direct therapy is provided for beginning graduate students. More advanced students may obtain experience with behavioural approaches to parent training and behavioural consultation skills. All students are exposed to standards for the use of behavioural procedures. The course includes practicum placements in child treatment settings, participation in multi-disciplinary case conferences, and case presentations by students.

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

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 required to take courses 621a, 635a, and 636b before taking this practicum.

Half course; two terms

Psychology 618b

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

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 624a

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

M. Keller

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

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Psychology 628a

COMMUNITY PSYCHOLOGY

D. Evans

Students who complete this course will be familiar with the historical antecedents to community psychology, the various theoretical approaches used, the fields of psychology which contribute to practice, the technology of practising community psychology, and the research and evaluation methodology which can be used. Emphasis will be on the methods of practising community psychology, and methods of evaluation.

Half course; one term

Psychology 635a

PROFESSIONAL FOUNDATIONS OF
CLINICAL PSYCHOLOGY

D. Evans

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

Half course; one term

Psychology 636b

FUNDAMENTALS OF INTERVIEWING
AND CLINICAL SKILLS

J. Dumas

The course provides a practical introduction to interviewing skills. A variety of issues will be considered in a setting in which students will act as interviewers, videotape their performance, and obtain feedback from instructor and peers.

Half course; one term

Psychology 637b

MARITAL AND FAMILY THERAPY

C. Colby

Major theories of marital and family therapy will be examined. The historical foundations and current development of a number of approaches to marital and family therapy will be critically reviewed. Assessment, intervention strategies and research associated with each theory will be presented, and when possible, case examples will be discussed.

Half course; one term

Psychology 639y

PRACTICUM IN CHILD INTERVENTION

D. Wolfe

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

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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

I. Gotlib

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 clinical 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

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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 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 657b

COGNITIVE DEVELOPMENT

M. Pressley

Cognitive development with an emphasis on cognitive applications. Topics include memory, special populations, cognitive behaviour modification, cognition and learning from media.

Half course; one term

Psychology 690

Ph.D. THESIS

Faculty

Psychology 693

INTERNSHIP

D. Wolfe

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

Half course; two terms