

**Professor and Head of the Department:**

Mary J. Wright, Ph.D. (Toronto)

**Professors:**

D. N. Jackson, Ph.D. (Purdue), Senior Professor

G. J. Mogenson, Ph.D. (McGill)

Leola E. Neal, Ph.D. (Toronto), Dean of Women

A. U. Paivio, Ph.D. (McGill)

G. H. Turner, Ph.D. (Toronto), Dean, Talbot College

D. C. Williams, Ph.D. (Toronto), President and Vice-Chancellor

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**Associate Professors:**

D. A. T. Chambers, Ph.D. (McGill)

J. P. Denny, Ph.D. (Duke)

R. C. Gardner, Ph.D. (McGill)

J. Havelka, Ph.D. (Milan)

S. B. Kendall, Ph.D. (Emory)

Doreen Kimura, Ph.D. (McGill)

R. M. Knights, Ph.D. (Minnesota)

H. O. Lobb, Ph.D. (Toronto)

W. J. McClelland, Ph.D. (London), Assistant Dean, Faculty of Graduate Studies

M. Rieber, Ph.D. (Iowa)

M. M. Schnore, Ph.D. (McGill)

R. G. Stennett, Ph.D. (McGill) (Part time)

F. W. R. Taylor, Ph.D. (Toronto)

C. H. Vanderwolf, Ph.D. (McGill)

F. R. Wilkinson, Ph.D. (Michigan State)

**Assistant Professors:**

- A. J. Conger, Ph.D. (Illinois)
- A. A. Monjan, Ph.D. (Rochester)
- H. G. Murray, Ph.D. (Illinois)
- D. R. Pederson, Ph.D. (Iowa)
- Z. W. Pylyshyn, Ph.D. (Saskatchewan)
- W. E. Reitz, Ph.D. (Pennsylvania State)
- T. F. Siess, Ph.D. (Minnesota)
- F. M. Van Fleet, Ph.D. (Colorado)
- N. J. Vidmar, Ph.D. (Illinois)

**Honorary Lecturer:**

- J. A. F. Stevenson, M.D. (McGill)  
(Professor and Head, Department of Physiology)

**Programme of Studies**

The graduate programme provides advanced training in general psychology with specialization in learning and motivation, sensation and perception, physiological and comparative, verbal learning and memory, cognition, measurement, experimental child, personality theory and assessment, experimental social, psycholinguistics, mental retardation and clinical.

**Facilities of the Department**

The facilities of the Department include animal laboratories and rooms specially designed for research with human subjects in perception, physiological, and experimental social psychology. Standard laboratory equipment is available, and additional special equipment necessary for a student's research will be purchased. Facilities include an IBM 7040 computer; a PDP 10 computer; a PDP 8s: a small computer adapted for automating experimental control and data collection; engineering and electronic shops; and, data, engineering and electronics consultants.

Potential field settings (and sources of subjects) for research include, in addition to industry and schools, three mental hospitals, psychiatric wards in two general hospitals, the Alcoholism and Drug Addiction Research Foundation, the Child Guidance Clinic, the Children's Psychiatric Research Institute, the Crippled Children's Treatment Centre, and nursery schools. Mobile laboratories are available for off-campus research.

**M.A. Degree**

The purpose of the Master's Programme is to prepare the student for research and scholarly work. The programme also provides a foundation for advanced training in Applied Psychology. Candidates are required to take three graduate courses, hold a research assistantship, and to submit a thesis based on an empirical investigation of a problem within some area of Psychology. The thesis research is supervised by a faculty member.

The minimum residence requirement is one academic year of full-time study by a candidate entering with a Canadian Honours degree or its equivalent. Others will be required to undertake a two year programme. Students who do not complete the thesis requirement in the spring are expected to remain in residence during the summer term.

**Ph.D. Degree**

The primary purpose of the doctoral programme is to train scientists and university teachers. The programme includes courses, seminars, tutorials, teaching,

and research apprenticeship training. A reading knowledge of one foreign language, a comprehensive examination in one area of specialization and a dissertation based on a research project are required. Individual programmes of study are encouraged under the supervision of specific members of staff. The minimum residence requirement is three academic years of full time study after an Honours level Bachelor's or two after a Master's degree. Frequently more time is necessary. All students are expected to be in residence during the summer. The programme in Clinical Psychology requires practicums in approved settings.

### Admission Requirements

An M.A. degree in Psychology is normally required for admission as a Ph.D. candidate.

Graduate Record Examination results (Aptitude and Advanced Tests) or Miller Analogies Test scores are required and should be made available at the time of application.

### COURSES

**500-509: Learning and Motivation:** Introduction to theories of Hull-Spence, Logan, Mowrer, Miller, Skinner, Estes; classical conditioning; operant conditioning; frustration; punishment; discrimination learning; partial reinforcement; mediation concepts; and, motivational models.

**510-519: Sensation and Perception:** Psychophysical theory and methods; physiological bases of sensory and perceptual processes and their stimulus correlates; spatial and temporal factors; color vision; adaptational processes; theories and models of perception; and, developmental and motivational aspects of perception.

**520-529: Physiological and Comparative:** Neural mechanisms of learning; memory; language; sensory and perceptual processes; attention; sleep and wakefulness; and, neural and endocrine integrations underlying drives and emotional behavioural.

**530-539: Experimental Child:** Motivational and associative factors in children's learning; development of sensory integration; problem solving and cognitive development; behavioral modification in preschool children; assessment of brain-injury; and special problems in behavioural development.

**540-549: Research Design and Measurement:** Design of research and the analysis of data; general statistical principles; analysis of variance; correlation theory; multivariate techniques; methods and principles of measurement; numerical analysis; and, theory of errors.

**550-559: Cognitive Processes:** Concept formation; problem solving; computer simulation of cognitive processes; the creative process in literature; cross-cultural variation in thinking processes; decision-making and game theory.

**560-569: Experimental Social:** Attitudes and attitude change; social motivation; social learning; social influence; group structure and process; person perception; and international relations.

**570-579: Verbal Learning, Memory, and Psycholinguistics:** Stimulus and response parameters; coding or mediating processes; structural aspects of language; theoretical interpretations of verbal learning; processes in short-term and long-term memory; psycholinguistic phenomena including developmental aspects; situational determinants, pathology, and individual differences in language and verbal behaviour.

- 580-589: Personality Theory and Assessment:** Critical evaluation of theories concerning the nature and function of the person as a psychological entity, and the theoretical and quantitative foundations of assessment; empirical foundations of personality theory; personality theory and practice; test theory; construct validation and test construction; classification and diagnosis; and, multivariate procedures.
- 600-609: Educational Psychology:** Introduction to educational psychology; the analysis of the general principles of psychology as applied to education; education of exceptional children including children with emotional, neurological and perceptual disorders as well as the gifted, retarded, and culturally deprived; educational research; educational measurement; and the psychology of teaching and application of learning theory to classroom learning.
- 610-619: Mental Retardation:** Classification and aetiology; theoretical approaches; comparative behaviour; associated disorders; practical problems.
- 620-629: Clinical and Psychopathology:** Theoretical foundations of psychopathology; aetiology; assessment and treatment of behaviour disorders and organic impairments.
- 680-689: Tutorial in Experimental and Theoretical Psychology.**
- 590:- M.A. Thesis**
- 690:- Ph.D. Thesis**

**Note:** At least one seminar in each of the above areas is normally offered each academic year. Seminars are frequently inter-disciplinary with contributors from other Departments, such as: Computer Science, Neurology, Physiology, Sociology, Psychiatry, Physics, and Paediatrics.