Mission Statement
The mission of the graduate program in psychology is to build on the strength of its students, faculty, and staff in providing an internationally renowned program that is known for: the excellence and integrity of its faculty, students, and training; the innovation and value of its research, scholarship, and skill development; and the fostering of leadership in the delivery of service to the community, to the field of psychology, and to society.

Objectives
The graduate program will be an integrated, organized structure that: develops scientific, critical thinking, and communication skills; promotes freedom of inquiry and expression; attracts high quality students to Queen’s University; trains students in skills relevant for employment in a variety of psychological contexts, such as academic, government, and private sector settings; develops leaders in the discipline of psychology in both scientific and applied contexts; achieves an appropriate balance between research and applied components of psychology; responds flexibly to meet the changing needs of students and the profession; promotes professional and scientific responsibility and integrity; provides an environment that respects the equal dignity of all persons and the right to freedom from harassment, intimidation, and discrimination.

Departmental Facilities
Humphrey Hall and the adjacent Craine building contain most of the laboratory, teaching, and technical facilities of the Department of Psychology, facilities for the study of perception and action, including laboratories for the study of optical flow, pattern vision, psychoacoustics and auditory psychophysics, tactile psychophysics and haptic perception, full-body motion, speech synthesis, music perception, eye-hand coordination, facial animation, and human factors relating to teleoperation, and virtual reality. Behavioral neuroscience facilities include multi- and single-unit recordings, intracerebral microdialysis, and image analysis, as well as laboratories for studying animal learning and cognition, avian and insect navigation, and birdsong. There is a human sleep laboratory, and laboratories for the study of human memory, decision and categorization phenomena, and reading processes. There are extensive facilities for research in developmental psychology, from infancy through old age, including laboratories for studying infant perception, language acquisition, lying, aggression and victimization. There are facilities for computer-administered experiments in personality, social interaction and influence, and social judgement, as well as eyewitness identification and jury decision-making. Research facilities are also available through various community hospitals, federal penitentiaries in the Kingston area, and through other community health-based institutions.

The Department of Psychology also maintains computing resources of varying sizes and configurations located in laboratories. It houses a teaching laboratory for applied statistics in a computing environment. The Department is affiliated with the High-Performance Computing Virtual Laboratory, Canada’s largest academic high-performance computing facility, operated by a consortium of four universities (Queen’s, Royal Military College, Ottawa, and Carleton). The Department provides training in parallel computing applied to behavioural phenomena. It also has facilities for the computational modeling of cognitive processes.

Financial Assistance
Federal, Provincial, and University fellowships, scholarships, and bursaries are available. In addition, a number of Departmental assistantships are offered in return for tutorial or research services to the Department. Inquiries regarding eligibility and other information about financial aid should be addressed to the Coordinator of Graduate Studies, Department of Psychology.

Fields of Research
Research is at present being carried out in the following areas:

- brain function;
- neuroplasticity;
- behavioral neuroscience;
- psychopharmacology;
- evolutionary psychology;
- animal learning and behavior;
- sleep;
- psychophysics;
- motor control and action;
- visual perception and physiology;
- auditory perception;
- tactile and haptic perception;
- multimodal perception;
- sensory interfaces for teleoperation and virtual-reality systems;
- perceptual learning;
• psychology of music;
• cognitive neuroscience;
• cognitive processes;
• computational modelling of basic cognitive processes;
• decision and classification;
• memory;
• psychology of reading;
• letter and word identification;
• language learning;
• psycholinguistics;
• cognitive development;
• infant development;
• developmental disabilities;
• early experience;
• aging;
• social cognition;
• attitudes;
• psychometrics;
• clinical assessment;
• behaviour analysis;
• health psychology;
• child and adult mental health;
• intervention;
• rehabilitation;
• parenting;
• addiction;
• eating disorders;
• psychology and the law;
• delinquency;
• eyewitness psychology.

Programs of Study
Applicants are accepted under the general regulations of the School of Graduate Studies. The Department requires applicants to have written the Graduate Record Examination.

Four programs are offered:
1. Cognitive Neuroscience;
2. Clinical;
3. Developmental; and
4. Social-Personality.

Professional and Ethical Behaviour
Students are expected to act in a professional and ethical manner in accordance with the current Standards of Professional Conduct (College of Psychologists of Ontario) and the Canadian Psychological Association Code of Ethics.

It is very important, therefore, that students be familiar with these documents and clarify any concerns they have with their supervisor. A failure to show professional and ethical behaviour may provide grounds for dismissal.

Faculty
Head
Harkness, K.

Associate Head
Fekken, C.

Coordinator of Graduate Studies
Sabbagh, M.

Professor

Associate Professor

Assistant Professor
Flores, L., Hauser, D., Morningstar, M., Salomons, T., Smallwood, J., Stewart, J., Tusche, A., Vine, V.

Professor Emeritus

Adjunct Professor
Davidson, J.

Adjunct Associate Professor
Atkinson, J., Harris, G.T., Rice, M.

Adjunct Assistant Professor

Cross-Appointed
Barling, J., Brodt, S.E., Browese, R., Cooper, W., Jones, J., Kirby, J.R., Kisilevsky, B., Milev, R., Montgomerie, R., Munoz, D.P., Paré, M., Ratcliffe, L.M., Raver, J., Robertson, R.M., Upitis, R.B.,
Programs

• Psychology - Doctor of Philosophy (https://queensu-ca-public.courseleaf.com/graduate-studies/programs-study/psychology/psychology-phd/)
• Psychology - Master of Science (https://queensu-ca-public.courseleaf.com/graduate-studies/programs-study/psychology/psychology-ms/)

Courses

All courses except PSYC 899, PSYC 993 and PSYC 999 are 3.0 credit units.

PSYC 801  Design of Experiments
Topics include: The logic of the test for significance and controversies concerning it; ANOVA and its underlying linear model for between-subject, within-subject and split-plot designs; orthogonal comparisons for trend analysis and for special contrasts; restricted randomization and the randomized-block design; partial confounding in latin-squares; balancing conditions against trend; hierarchical designs; ANOVA and multiple correlation; designs including organismic variables; random-effect models and the fixed-effect fallacy; data transformations and non-parametric tests. Lectures (3 hrs) and tutorials (1.5½ hrs); Fall; J. Gallivan.

PSYC 802  Introduction to Multivariate Analysis
Topics include: History of Multivariate Techniques, Matrix Algebra, Data Assumptions and Preparation, Multiple Regression, Canonical Correlation, Multivariate Analysis of Variance, and Discriminant Function Analysis. Lectures (3 hrs) and tutorials (1½ hrs). Winter; J. Jacobson.

PREREQUISITE: PSYC 801 or equivalent.

PSYC 805, 806  Introductory Assessment
These courses constitute an introduction to the practical aspects of clinical assessment. In PSYC 805 students are given skills training and practice in the use of tests of adult intelligence, memory and vocational counseling. In PSYC 806 the emphasis is upon tests of children's intelligence, learning and affect. Fall (805) (3 hrs.). L. Klik/K. Buell; Winter (806) (2 hrs.). K. Benn

PSYC 809  Child-Adolescent Clinical Psychology
Provides an overview of normal and abnormal development from conception to adolescence. Presentations balance theoretical controversies, basic research, and practical applications surrounding development principles considered in both the promotion of competence and the prevention/treatment of disorder.

PSYC 811,812,907,908  Cognitive Neuroscience Research Seminar

Designed to facilitate professional development, increase scientific dialogue, and enhance collaboration and scientific group problem-solving in the broad field of cognitive neuroscience. Faculty and students will lead discussions of critical topics in the field. Marked on a Pass/Fail basis. (2 hrs). 907-Fall/Winter; M. Castelhano

PSYC 825  Seminars in Psychology
Students attend diverse seminars to develop skills in listening, synthesizing and critical thinking while expanding the breadth of their background in psychology and cognate disciplines. Attendance may be extended over six terms (2 years) with students registering only in the term during which they complete the course. Enrollment is limited to graduate students in Psychology.

PSYC 827  Adult Clinical Psychology
In PSYC 827 major areas of adult psychopathology are emphasized including anxiety and mood disorders, schizophrenia and personality disorders. (2½ hrs). Not offered 2022-23.

PSYC 829  Ethical and Professional Issues
Designed to raise students' awareness of ethical principles and expose them to issues and perspectives related to their training as professionals. Seminar (3 hrs). Fall: T. Salomons.

PSYC 833  Foundations of Cognition & Perception
The course goal is to provide a foundation for the theoretical and empirical study of perceptual and cognitive processes. The topics include, but are not limited to, perceptual organization, object recognition, language, attention, learning and memory. The course will focus on key papers in the field and enduring theoretical issues. SEMINAR (2 Hrs.) Not offered 2022-23.

PSYC 834  Embodied Cognition
The framework of “embodied cognition” considers cognition a skilful activity that continuously generates and refines models about the world around us. Cognition, according to this view, emerges from lawful relations between motor output and sensory input. The course traces the development of this idea by discussing both theoretical and experimental literature considering contributions of a variety of fields (e.g., philosophy, artificial intelligence, robotics, neuroscience, and psychology). You will learn how this framework contributes to our understanding of the nature of intelligence, self-awareness, consciousness, and social identity. Not offered 2022-23.

PREREQUISITE: PSYC 215 or PSYC 221 or COGS 201 or equivalent.

PSYC 838,839  Introductory Clinical Practica
Students choose two practica from a variety of applied settings. These experiences are designed to introduce
students to functioning in a clinical setting. (One day per wk for a total of 120 hrs per course); Fall; Winter; Summer. M. Chivers.

**PSYC 841, 851, 852** Pro-Seminars in Developmental Psychology
Attended by both faculty and students who present research in their specialty areas and with the focus being on research design issues. The content will vary to some extent depending on the research areas represented by members of the class. Marked pass/fail based on attendance. Seminar (2 hrs bi-weekly). 841: Fall/Winter; T. Hollenstein.

**PSYC 842** Current Theories in Developmental Psychology: Cognitive Development
Students are exposed to current theory (and historical antecedents) within the field of cognitive developmental psychology. Topics will vary based on the expertise of the faculty instructor and thus may cover theory within evolutionary and comparative frameworks of cognitive development, epigenetic and systems approaches to cognitive development, developmental cognitive neuroscience methods, and developmental psychopathology. (3 hrs).

**PSYC 843** Current Theories in Developmental Psychology II: Social Development
Students are exposed to current theory (and historical antecedents) within the field of social developmental psychology. Topics will vary based on the expertise of the faculty instructor and thus may cover theory within evolutionary and comparative frameworks of social development, epigenetic and systems approaches to social development, social-cognitive neuroscience methods, and developmental psychopathology. (2 hrs.). Not offered 2022-23.

**PSYC 846** Psychology and the Law
The major focus of attention is procedural justice pre-senting. Topics include eyewitness memory, police identification procedures, jury selection, credibility of witness testimony, expert testimony, and jury decision making with the major emphasis on eyewitness issues. (3 hrs). Not offered 2022-23.

**PSYC 847** Treatment Theory and Process
Students are given an introduction to the major theories and basic skills involved in interviewing, cognitive-behavioural therapy, and therapeutic processes. Course content balances theoretical controversies, basic research, and practical applications. A blend of classroom instruction, videotaped interviews, observation, modeling, feedback and supervised practice is used. (3 hrs.) Not offered 2022-23.

**PSYC 853** Infancy
An overview of the major theoretical and methodological issues and a review of current research in the area of infant studies. Topics cover perceptual, cognitive and social development of both typical and atypical infant populations. Seminar (2 hrs). Not offered 2022-23.

**PSYC 854** Cognitive and Conceptual Development
Current theoretical and methodological issues in cognitive development research, covering the development of perception, memory, thinking as well as social cognition. Seminar (2 hrs.) Not offered 2022-23.

**PSYC 855** Language Development
Provides an overview of current theoretical and methodological approaches to early language development. Specific topics include: the rate and content of early language development, mechanisms underlying word learning, and syntactic development. Particular emphasis is placed on understanding how cognitive advances in the infancy and toddler periods impact children's language acquisition skills. Seminar (2 hrs). Not offered 2022-23.

**PSYC 856** Socioemotional Development
Building on theories of socialization and the development of emotional reactivity and regulation, this course will proceed chronologically from birth through adolescence. Readings of empirical and theoretical papers will cover various topics including family and peer relationships, specific emotions, developmental psychopathology, and cultural contexts. Seminar (2 hrs). Not offered 2022-23.

**PSYC 857** Atypical Development
An in-depth investigation of the linguistic, cognitive and social development of children with various neurodevelopmental disorders, including autism spectrum disorders, specific language impairment, Down syndrome, and Williams syndrome, among others. (2 hours). Not offered 2022-23.

**PSYC 858** Social Relationships
Development occurs within the context of relationships. This course will review the current understanding of key interpersonal relationships across the lifespan. Specific topics include: parent-child relationships, friendships, peer groups, romantic relationships and the role of relationships in specific contexts such as family, school and neighbourhood. Seminar (2 hrs). Not offered 2022-23.

**PSYC 899** Master's Thesis Research

**PSYC 901 Multilevel Modeling**
This course will cover many different techniques involved in multilevel modeling (MLM) including more specialized applications like growth curve modeling and dyadic data analysis (e.g., the Actor-Partner Independence Model). The goal of the course is to familiarize students with the
conceptual background and basic procedures of MLM, so they can apply these techniques to their own research. PREREQUISITE: PSYC 802 or equivalent. (3 hours). Not offered 2022-23.

**PSYC 910**  **Advanced Assessment**  
In PSYC 910 principles of psychological test construction, and procedures underlying psychological assessment, with particular emphasis on personality assessment are given advanced treatment. Seminar (2 hrs).

**PSYC 917**  **Introduction to Cognitive Neuroimaging**  
This course will acquaint students with current ‘best practice’ in the use of functional magnetic resonance imaging (fMRI) as a tool to investigate cognitive function. Topics will include experimental design, data processing and analysis, as well as statistical inference and localization. (1.5 hrs.) Not offered 2022-23.

**PSYC 921**  **Visual and Auditory Processes**  
Discusses central problems and selected issues pertaining to vision and audition. Topics will include the anatomy and physiology of the visual and auditory systems, psychophysics, and perceptual processes. Lecture/seminar (2 hrs).

**PSYC 922**  **Multicultural Clinical Practice**  
This course will provide students with a broad overview of multicultural issues in clinical practice. We will explore constructs such as race, culture, ethnicity, bias, intersectionality, and cultural competence, their relationships with epistemologies of psychopathology, and their impacts on access to and uptake of clinical services. The goal is for students to develop culturally responsive, competent and ethical knowledge and attitude in working with culturally diverse populations. (3 hrs). Not offered 2022-23.

**PSYC 930**  **Somatosensory, Intersensory and Motor Processes**  
Discusses central problems and selected issues pertaining to the somatosensory system, to the synthesis of information from multiple modalities (e.g., vision, audition, touch), and to the motor system. Topics will include the anatomy and physiology of the somatosensory system and of intersensory integration, psychophysics, perceptual processes, motor control and planning, and perception and action. Lecture/seminar (2 hrs). Not offered 2022-23.

**PSYC 931**  **Neuroplasticity and Behaviour**  
Changes at the synaptic level in structure and neurochemistry including protein synthesis associated with sensory/perceptual development, learning and memory. Coverage will include in vitro and in vivo approaches. Data from vertebrates and invertebrates will be included. (Normally offered concurrently with BIOL-815.) Lecture/seminar (2 hrs). Not offered 2022-23.

**PSYC 934**  **Comparative Neurocognition**  
An overview of the evolution and function of cognitive processes. Emphasis will be placed on understanding how natural selection shaped cognition across species. Topics such as memory, decision making and communication will be examined from a behavioural ecology and experimental psychology perspective. Neuroscience and developmental psychology research will complement each topic. Lecture/Seminar (2 hrs.) Not offered 2022-23.

**PSYC 935**  **Cognitive Neuropharmacology**  
An overview of cellular and molecular mechanisms of synaptic transmission that underlie cognitive processing. Specific topics to be covered include drug-induced changes in nervous system function, the uses and actions of various classes of drugs, and the diagnosis and treatment of neuropsychiatric disorders. Lecture/seminar (2 hrs.) Not offered 2022-23.

**PSYC 940**  **Structural Equation Modelling**  
Topics include: Data and covariance structure models, estimation, identification, evaluating solutions, model modification and equivalent models, causal versus effects indicators, power, confirmatory factor analysis, multiple groups analysis, latent curve modelling, and multivariate change models. (2 hrs).

**PSYC 941**  **Research Methods in Social Psychology**  
Introduction to research methodology. Emphasis is on social psychology. Topics include generating research ideas, research design, questionnaire construction, measurement theory, and professional issues. (2 hrs). Not offered 2022-23.

**PSYC 942**  **Cross-Cultural Psychology**  
A survey of key concepts and theoretical and methodological issues in the field, followed by a critical examination of selected contemporary research areas, including cognition, acculturation and their application. Seminar (2 hrs).

**PSYC 944**  **Attitudes and Attitude Change**  
Focuses on contemporary issues and controversies in attitude research. Topics include the structure of attitudes, the impact of attitudes on behaviour and cognition, and the psychological processes underlying attitude change. Seminar (2 hrs). Not offered 2022-23.

**PSYC 945,946**  **Special Topics in Social Psychology I, II**  
Focus on specific issues within the social area. May be offered by visiting scholars or current faculty. Seminar (2 hrs.); Not offered 2022-23.

**PSYC 947**  **Social Cognition**
Examines how people make sense of their social world: How they perceive, represent, interpret, and remember information about themselves and about other individuals and groups. (2 hrs).

**PSYC 948  The Self**

**PSYC 951  Advanced Cognitive-Behavioural Therapy**
Students will learn advanced skills required for conducting Cognitive Behavioural Therapy in the mood and/or anxiety disorders. A blend of classroom instruction, videotaped therapy sessions, observation, modeling, feedback and supervised practice is used. The specific populations taught in any given year will depend upon the availability of instructors. Not offered 2022-23.

**PSYC 952  Advanced Clinical Skills**
Students will learn advanced skills in interviewing (e.g., diagnostic interviewing, motivational interviewing) and/or intervention (e.g., group therapy, therapy with special populations). A blend of classroom instruction, videotaped therapy sessions, observation, modeling, feedback and supervised practice is used. The specific focus of instruction in any given year will depend upon the availability of instructors. Not offered 2022-23.

**PSYC 953  Biological Bases of Behaviour**
Surveys theoretical and applied aspects of the biological bases of behaviour. Topics covered will normally include basic neuropsychopharmacology and biological treatments of mental disorders, neurological assessment methods (e.g., MRI, fMRI, PET, SPECT), neuropsychological assessment, and the genetic and neuroendocrine bases of mental disorders. (2 hrs). Not offered 2022-23.

**PSYC 957  Advanced Therapy I**
Students will learn skills required for conducting therapy using Cognitive Behavioural Therapy in populations other than mood/anxiety. A blend of classroom instruction, videotaped therapy sessions, observation, modeling, feedback and supervised practice is used. The approach taught in any given year will depend upon the availability of instructors. (3 hrs.) Not offered 2022-23.

**PSYC 959, 960  Special Topics in Development I, II**
Focus on specific issues within the development offered by visiting scholars or current faculty. Not offered 2022-23.

**PSYC 961  Processing and Interaction in the Real World**
This course will provide a review of contemporary theory and cutting-edge research in cognitive processing as it occurs in real world settings. The research will include, but will not be limited to: visual perception, visual attention, action, and communication. Research articles can cover both basic research examining the theoretical understanding and applications that incorporate its principles. Topics covered may vary from year to year. (2 hrs). Not offered 2022-23.

**PSYC 962 Memory and Learning**
An overview of contemporary research and theory in the science of Learning and Memory. Topics that will be covered include mechanisms of learning and memory at the cellular and systems levels, different classes of memory and their neuroanatomical substrates, evolutionary and comparative approaches. This course will also cover in detail behavioral, electrophysiological, computational, and neuroimaging methods. Topics covered may vary from year to year. (2 hrs). Not offered 2022-23.

**PSYC 963 Decision Making**
An overview of contemporary research and theory in cognition and cognitive neuroscience. Topics covered may vary from year to year and could include attention, executive function, decision making and choice. The course will illustrate how non-invasive or invasive techniques can be used to understand the mechanisms of human cognition and can help understand when these processes go wrong. (2 hrs).

**PSYC 964 Social and Motivational Processes**
A review of contemporary research and theory in social and affective neuroscience. Topics to be covered include biological bases of motivated behaviours, and how these are influenced by different social contexts. Specific foci will vary year-to-year and may include: addiction, sexuality, social interactions, social buffering, mood, stress, psychiatric disorders, feminist neuroscience, social neuroendocrinology, and more. (2 hrs).

**PSYC 965  Memory, Decision and Choice**
A review of contemporary research and theory in cognitive science focussing on selected topics with memory, decision, classification, and choice. Lecture/seminar (2 hrs). Not offered 2022-23.

**PSYC 966  Health Psychology**
These courses explore various problems associated with the areas of health psychology and behavioral medicine. The focus will vary depending on the instructor. Topics may include the relationship between stress and disease, health promotion, psychological management of pain, addictive behaviours, sleep disorders, chronic and terminal illness. (3 hrs). Not offered 2022-23.

**PSYC 970/971  Advanced Special Topics in Cognitive Science I, II**

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Focus on specific issues within the cognitive science area. May be offered by visiting scholars or current faculty. Not offered 2022-23.

**PSYC 972 Current Topics in Attention**
Each week covers a selected topic in attention research. Topics typically include history of attention research, attentional capacity, spatial and temporal attention, change blindness, inattentional blindness, cortical mechanisms of attention, interaction of attention and memory, and attention training. Seminar; 3 hrs/week. Not offered 2022-23.

**PSYC 974 Advanced Therapy II**
Students will learn skills required for conducting therapy using approaches other than Cognitive Behavioural Therapy. (e.g., Interpersonal Psychotherapy for Depression (Klerman model), Systemic Family Therapy). A blend of classroom instruction, videotaped therapy sessions, observation, modeling, feedback and supervised practice is used. The approach taught in any given year will depend upon the availability of instructors. (3 hrs.) Winter; L. Flores.

**PSYC 975, 976 Applied Internship I and II**
Students may arrange for one or two terms of supervised applied training outside of the department. Internships will be individually arranged to further the development of each student’s program. Student’s will submit a list of objectives before the plan is approved, and a report of progress at the end of the term. Not offered 2022-23.

**PSYC 978 Research Skills/Program Evaluation**
Students are given the opportunity to broaden research skills through practical tasks such as preparing a grant proposal, designing a programme evaluation, and critically reviewing research grants and articles. (2½ hrs). (3.0 credit units). Not offered 2022-23.

**PSYC 979 Personality Theory**
Examines issues that are the current focus of the personality literature from various theoretical perspectives, including trait, psychodynamic, biological, social cognitive, phenomenological, and other research based perspectives. Seminar (2 hrs). Not offered 2022-23.

**PSYC 980,982 Special Topics in Personality I, II**
Focus on specific issues within the personality area. May be offered by visiting scholars or current faculty. Not offered 2022-23.

**PSYC 981 Personality Assessment**
Covers the theory and mechanics of psychological test construction and introduces students to major personality tests that are currently predominant in the literature. The objective is to review the psychometric issues relevant to evaluating or developing tests for research purposes. Seminar (2 hrs).

**PSYC 987,988 Advanced Special Topics in Behavioural Neuroscience I, II**
Focus on specific issues within the behavioural neuroscience area. May be offered by visiting scholars or current faculty. Not offered 2022-23.

**PSYC 989,990 Advanced Clinical Practice**
Give students supervised experience in all aspects of clinical practice, including: interview and assessment, treatment, report writing, interprofessional communication and consultation, and professional development. (8 hrs per wk for a total of 120 hrs per course). Fall; Winter; Summer. M. Chivers.

**PSYC 991,992 Advanced Clinical Practice**
Give students supervised experience in all aspects of clinical practice, including: interview and assessment, treatment, report writing, interprofessional communication and consultation, and professional development. (8 hrs per wk for a total of 120 hrs per course). Fall; Winter; Summer. M. Chivers.

**PSYC 993 Clinical Internship**
Students in the Clinical Program are required to complete a one-year, full-time internship or its equivalent in an approved setting under the primary supervision of a registered psychologist. This normally will be taken after all course work, comprehensive examinations and Ph.D. thesis are completed. Students who complete all other degree requirements including submission of the final copy of the thesis for binding before starting or during the internship, may apply to change their study status to part-time for the remaining terms of the internship year. Fall; Winter; Summer. M. Chivers.

**PSYC 994 Special Topics in Clinical Psychology I**
Focus on specific issues within the clinical area. May be offered by visiting scholars or current faculty. Not offered 2022-23.

**PSYC 995 Special Topics in Clinical Psychology II**
Focus on specific issues within the clinical area. May be offered by visiting scholars or current faculty. Not offered 2022-23.

**PSYC 999 Ph.D. Thesis Research**
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