

## Winter 2025 PSYCH Grad Class Offerings

Course	Fac	Title	Instructor	Class Description
505B2	Sci	Topic: Group Processes and Intergroup Relations	Rast (405)	This is a seminar-style course designed to provide an in-depth examination of research and theory related to the social psychological processes within and between groups. This course covers topics such as the importance of groups and group membership(s), social influence, group polarization, leadership, teams and teamwork, discrimination, collective action, intergroup conflict and cooperation, and many other group-relevant topics.
505B3	Sci	Topic: Brain Metabolism	Scavuzzo (403)	This course is a senior level course discussing brain metabolism. Students will have a working understanding of the physiological processes underlying basic brain metabolism in the context of development, sensation, movement, learning, psychiatric disease, and sleep and the experimental methods used to study these processes.
505B4	Sci	Topic: Qualitative Methods in SocialCultural Psych	Sharp (415)	Introduces basic concepts, assumptions, and methods used in conducting and interpreting qualitative research in Psychology. Students will be introduced to qualitative forms of data and data management and will begin to learn about assumptions and principles that inform qualitative research, procedures for gathering meaningful qualitative data, and procedures for analyzing and interpreting these data. Fulfillment of the 3-hour lab component typically involves the completion of analysis assignments.
505B5	Sci	Topic: Injury & Repair Mechanisms After Stroke	Colbourne (403)	This course introduces neural mechanisms of injury and repair occurring after ischemic and hemorrhagic stroke. We will discuss and critically evaluate animal and clinical research on various drug, cell-based and physical therapies along with factors that influence outcome, such as age.
505B6	Sci	Topic: Social Neuroscience	Nash (403)	A seminar-style class that involves a survey of theories and research on social neuroscience. This is a Faculty of Science course.
505B7	Sci	Topic: Affect and Emotion	Baerveldt (405)	A survey of affect and emotion, tracing the historical evolution of emotion research, theories of basic and complex emotions, and interdisciplinary connections in the study of affect. The course explores advances in cognitive and appraisal theories of emotion, affective neuroscience and discursive studies of affective practices, delves into the question of how culture shapes emotional experiences, and explores recent developments in affect studies. By the course end, students will be able to distinguish between feeling, emotion, affect, and sentiment, while critically analyzing the personal and cultural dynamics of affect and emotion.
505B8	Sci	Topic: Neuroethology	Sturdy (new 403)	This course is a seminar and discussion-based course that will cover topics related to the neurobiology of behaviour, also known as neuroethology. As such, we will cover material related to brain and behaviour (i.e., neurobiology and ethology), with course material coming both from the textbook and primary literature sources (i.e., peer-reviewed journal articles). As a seminar and discussion based course, there will be a significant student participation component to this course. This means that students will be required to participate both face-to-face (synchronously) and in online discussion forums (asynchronously).
505B9	Sci	Topic: Psychology Today: Trends, Theories, and Transitions	Westbury (405)	This course will focus on major advances in the last 50 years in psychological theory, criticism, philosophy, and empirical findings. The course is paper-based, with every lecture organized around a published paper. Topics will include how to think about phenomenology (our experience of ourselves), what large language models like ChatGPT can tell us about human language processing, the neurological underpinnings of psychotherapeutic change, why we laugh, why statistical methods are changing, why the replication crisis happened, what robotics can teach us about being human, the nature of cognitive biases, and what neuroscience can tell about free will.
505B10	Sci	Topic: Computer Programming for Psych	Mathewson (403)	This course equips psychology students and researchers with critical programming skills for cutting-edge experimental design and data analysis. It integrates advanced programming tools and hardware, enabling participants to leverage technology in psychological research. Bridging theoretical psychology and practical computer science, the course prepares attendees for sophisticated, data-driven research.
505B11	Sci	Topic: Social, Emotional and	Colbourne (403)	This course introduces you to the cognitive, social and emotional impact of stroke. Our focus is largely on current clinical research, including the effects

		Cognitive Effects of Strokes		of stroke and treatment approaches (e.g., impact of depression and treatment for it).
532B1	Sci	Psych Research II	Gagne	This course provides an examination of advanced experimental design and data analysis methods that are commonly used in psychological research. The course will focus on the analytical techniques of analysis of variance (ANOVA) and multiple regression/correlation (MRC), and on the relationship between these techniques. We will also briefly explore linear-mixed effects (LME) modeling. The material in this course will be useful for the analysis of both experimental and non-experimental designs. A major component involves an examination of the statistical methodology and assumptions underlying each of the designs. Fixed, random and mixed-effects models are discussed as well as effect size, power and the investigation of differences among means using planned and post-hoc comparisons. In order to gain proficiency with the techniques, students will be required to complete weekly assignments using statistical software.
576B1	Sci	Cognitive Neuroscience	Caplan	
600B1	Arts	Individual Studies	Please contact psygrad@ualberta.ca to register with your instructors permission.	
622B1	Arts	Topic: Developmental Psychopathology	Zheng (423)	This seminar course offered through the Faculty of Arts is designed to provide students with a general introduction to and overview of developmental psychopathology and its contributions to our understanding of normative and atypical human development in different contexts across the lifespan. Students will become acquainted with a range of core issues in developmental psychopathology, including basic theoretical and methodological concepts, selected substantive issues, and implications for applied developmental research. Through class discussion of readings and presentations, we will explore different perspectives towards developmental psychopathology, various proximal and distal mechanisms underlying developmental processes of psychopathology, as well as a survey of selective research topics in psychopathology. Students will learn how to apply a developmental lens to their own substantive research interests on psychopathology.
622B2	Arts	Topic: Developmental Cognitive Neuroscience	Wiebe (425)	An in-depth review and analysis of developmental cognitive neuroscience methods and principles of brain development and neuroplasticity, and their application to particular domains of development (e.g., attention, language, emotion).

18 March 24 KAB