



Brock Psychology

Psychology
Expanded Course
Descriptions 2022-23

IMPORTANT NOTE: Please refer to the current Undergraduate Calendar and timetable for information about pre-requisites, restrictions and class formats. If there are discrepancies between this document and official course outlines, the Undergraduate Calendar or the timetable information from the other source is correct.

Not all courses listed in this document are offered every year, refer to the timetable for an up-to-date list of the courses we are offering.

Statistics and Research Design for the Social Sciences

Course Code: PSYC 2F23

Instructor: T. Murphy

Required Textbook:

Evaluation (tentative): Assignments (10%), two in class tests (15% each), one 3-hour progress exam (25%), one 3-hour final exam (35%). All tests and exams are open book.

General Description:

You are bombarded with statistics everyday, even if you do not realize it, (4 out of 5 dentists recommend, sound familiar?). So, in addition to being a required course for many of you, I believe this course will also provide you with knowledge that will make you a better (more critical) consumer of numbers (statistics) and prove useful throughout your life.

In this course you will learn the basics of describing data as well as the methodology and inferential techniques used by psychologists (and others) to carry out and evaluate research. To adequately master these techniques will require some effort on your part. It has been said that statistics is not learned it is practiced. The successful student typically does not simply do the required homework assignments which only provide an overview of the topic presented that week, but attempts several other problems and attends office hours as well. In addition, because we will cover several tests that can be applied to data, it is essential that students learn the logic and limitations behind each test so that the proper test or technique can be chosen in each case.

Homework assignments will be done weekly and taken up/discussed in seminar. Students will be expected to take turns putting solutions to problems on the board, explaining answers and discussing difficulties under the supervision of the teaching assistant.

** Note: It is ESSENTIAL that you have a good calculator. This does NOT mean simply an expensive one (\$20-25 is likely all you need to spend). However, it absolutely must have the ability to calculate squares, square roots, raise numbers to powers, etc. Ideally, you will have or buy a calculator that has “statistics functions” (look for symbols like ΣX ,

ΣX^2 , s, if it also has a, b, r, ΣY , ΣXY , nCr , nPr etc, it is even better

Roadmap to Careers in Psychology

Course Number: PSYC 2P01

Instructor: TBA

Textbook: TBA

Evaluation: TBA

General Description:

Career exploration and applications in psychology and related fields.

Lifespan Development

Course Number: PSYC 2P12

Instructor: C. Mondloch

Textbook: TBA

Evaluation (tentative): TBA

General Description:

Introduction to theories and research in human development across the lifespan. Topics include development in physical, perceptual, cognitive, linguistic, social and/or emotional domains.

Abnormal Psychology

Course Number: PSYC 2P15

Instructor: TBA

Textbook: TBA

Evaluation (tentative):

General Description:

Mental disorders with respect to classification, diagnosis, etiology, treatment, and applied case studies. Biological and psychosocial risk factors for mental disorders.

Cognition

Course Number: PSYC 2P20

Instructor: K. Arnell

Textbook(s) (tentative): TBA

Evaluation (tentative): TBA

General Description:

How the mind processes information. Topics include recognition, attention, memory, problem solving, judgment and decision making.

Personality and Individual Differences

Course Number: PSYC 2P25

Instructor: M. Ashton

Textbook: Ashton, M. C. (2018). *Individual Differences and Personality (3rd ed.)*. San Diego, CA: Academic Press.

Evaluation: TBA

General Description:

Introduction to theory and research in personality and related individual differences. Topics include measurement and structure of personality characteristics; biological bases, genetic and environmental origins, and evolutionary function of personality; personality disorders; personality as a predictor of life outcomes; other domains of psychological variation (religious beliefs and political attitudes, sexuality, occupational interests, mental abilities).

Fundamentals of Social Psychology

Course Number: PSYC 2P30

Instructor: G. Hodson

Textbook: TBA

Evaluation (tentative): TBA

General Description:

Theory, methods and research examining the influence of others on phenomena such as cognition, the self, attitudes/persuasion, group processes, prosocial behaviour, aggression, prejudice.

Introduction to Brain and Behaviour

Course Number: PSYC 2P35

Instructor: P. Duarte Guterman

Textbook: TBA

Evaluation: TBA

General Description:

Biological aspects of behavioural neuroscience. Basics of the structure and function of the nervous system in relation to behaviour. Activities of the brain from the neuron through to interrelationships among neural systems. Topics include neuronal function, drugs and behaviour, brain plasticity and recovery from injury, sensation and perception, and the organization of the brain emphasizing human behaviour.

Brain and Behaviour I

Course Number: PSYC 2P36 (NEUR 2P36)

Instructor: P. Duarte Guterman

Textbook: TBA

Evaluation: TBA

General Description:

Introduction to behavioural neuroscience - biological aspects of behaviour. Basics of the structure and function of the nervous system in relation to behaviour. Activities of the brain from the neuron through to interrelationships among neural systems. Topics include neuronal function, drugs and behaviour, brain plasticity and recovery from injury, sensation and perception, and the organization of the brain emphasizing human behaviour.

Brain and Behaviour II

Course Number: PSYC 2P37 (NEUR 2P37)

Instructor: C. Rainecki

Textbook: TBA

Evaluation: TBA

General Description:

The relationship between brain, physiology and behaviour. Topics relevant to neural mechanisms associated with human actions and cognitions such as motivation (sleep, sexual behaviour, eating), emotions and stress, learning and memory, communication and language, and thought (psychological/psychiatric disorders).

Perception

Course Number: PSYC 2P49

Instructor: S. Emrich

Evaluation (tentative): TBA

General Description: TBA

Introduction to human perception emphasizing visual and auditory perception, including theory and applications to neurophysiology, speech recognition and development.

Integration of smell, taste, balance and time perception to demonstrate the biological and cognitive bases of perception.

Introduction to Community Psychology

Course Number: PSYC 2P90

Instructor: S. Neufeld

Evaluation: TBA

General Description:

Overview of history, approaches and ethical issues with psychological research and practice in community settings including deinstitutionalization, research with vulnerable communities, Indigenous research, structural interventions, and community empowerment.

Health Psychology

Course Number: PSYC 2P92

Instructor: C. Muir

Restrictions: Open to PSYC (single or combined), CHSC and HLSC majors and PSYC

Textbook(s): TBA

Evaluation: TBA

General Description:

Introduction to psychological aspects of health and illness. How behaviour, social context and attitudes influence physiological processes and our health. Topics include health promotion, stress, psychoneuroimmunology, health and physical activity, pain and the health care system.

Facilitating Communication and Critical Thinking in Groups

Course Number: PSYC 3F01

Instructor: T. Martini

Evaluation (Tentative): TBA

General Description:

Examination of theories and concepts related to the successful facilitation of groups. Topics may include the promotion of critical thinking and effective communication, group-based learning, intergroup dynamics and conflict resolution.

Psychological Research

Course Number: PSYC 3F40

Instructor: M. Ashton, S. Thai

General Description:

Research methods emphasizing correlational and experimental designs and associated analyses (regression and ANOVA). Development of the student's capacity to evaluate scientific literature, generate testable hypotheses, gather and analyze data, and report results in a manuscript.

Introduction to Cognitive Neuroscience

Course Number: PSYC 3P06

Instructor: S. Emrich

Suggested Textbook: TBA

Evaluation: TBA

General Description:

Neural basis of human cognition, emphasizing contemporary methods in cognitive neuroscience. Methodology (e.g. neuroimaging), perception, memory, language, emotion, executive functions and social cognition.

Adolescent Development

Course Number: PSYC 3P18

Instructor: TBA

Textbooks: TBA

Evaluation: TBA

General Description:

Theories and research pertaining to development during adolescence. Topics include biological, cognitive and socioemotional development, and the various contexts (family, peers, schools, culture) in which development occurs.

Psychology of Aging

Course Number: PSYC 3P19

Instructor: K. Campbell

Textbooks: TBA

Evaluation: TBA

General Description:

This course is intended to extend students' understanding of lifespan development to the later years of life. Students will learn about theories and methods of lifespan development

as applied to the special issues that emerge during late adulthood. This includes the biological changes that accompany normal aging, as well as certain age-related pathologies (e.g., Alzheimer's disease); age-related declines in perceptual abilities, such as vision and hearing; cognitive changes, including memory and attention; and social changes, including changes to one's social network, goals/motivations, and retirement. The main forms of assessment include a midterm and final exam, creation of a podcast discussing a recent research article on aging, and a final research paper/case study that involves interviewing an older person in your life.

Human Memory

Course Number: PSYC 3P20

Instructor: K. Campbell

Textbooks: TBA

Evaluation: TBA

General Description:

This course covers current theories and research on human memory from cognitive psychology and cognitive neuroscience. Students will learn about the different stages of memory (i.e., encoding, consolidation, and retrieval), as well as different types of memory (e.g., implicit memory, short-term and working memory, semantic and episodic memory). We also cover some special interest topics, such as autobiographical memory (i.e., memory for details and experiences from one's own life), memory and the law, and the effects of aging on memory. Throughout the course, we touch upon the different neural systems that are important for each type of memory. The main forms of assessment include a midterm and final exam, a presentation given with a partner in seminar about a recent memory study, and a final research proposal which requires reviewing the literature, coming up with a novel research question, and proposing an experiment designed to test that question.

Social Cognition

Course Number: PSYC 3P22

Instructor: S. Thai

Textbooks: TBA

Evaluation: TBA

General Description:

Theory and research on how we make sense of ourselves and our social world. Topics include goals, mood, memory, hypothesis testing, counterfactual thinking, stereotypes and culture.

Puberty and Adolescence

Course Number: PSYC 3P26

Instructor: C. McCormick

Textbooks: TBA

Evaluation: TBA

General Description:

Adolescent development from a psychobiological perspective. Topics include occurrence and consequence of early puberty, the influence of hormones and social factors on

adolescent development, and adolescent engagement in risky behaviour.

PSYC 3P28

Introduction to Abnormal Psychology

This course is NOT open to PSYC majors. PSYC majors interested in Abnormal Psychology should register in PSYC 2P15.

Critical Thinking in Psychology

Course Number: PSYC 3P30

Instructor: M. Ashton

Textbook: TBA

Evaluation: TBA

General Description:

Design of psychological research, including descriptive, correlational, and experimental studies. Critical evaluation of research findings in psychology and related fields, with attention to current controversies.

Applied Social Psychology

Course Number: PSYC 3P31

Instructor: W. Hall

Textbook: TBA

Evaluation: TBA

General Description:

Theory and research of social psychology as applied to specific areas of practical and social concern, such as physical and mental health, the justice system, the workplace, education, and the environment. Planning and evaluating social psychological interventions.

Motivation and Emotion

Course Number: PSYC 3P38

Instructor: C. Muir

Evaluation: TBA

General Description:

Scientific examination of human and nonhuman motivation and emotion from evolutionary, physiological, developmental and social perspectives. Topics include hunger, thirst, reproduction, sleep, aggression, stress, arousal, love, drug addiction, curiosity and creativity.

Computer Data Analysis

Course Number: PSYC 3P39

Instructor: K. Arnell, V. Dwivedi

Textbook: TBA

Evaluation: TBA

General Description:

Applications of computers to management and analysis of data, including data entry, statistical procedures and interpretation of output, using SPSS

Introduction to Forensic Psychology**Course Number:** PSYC 3P53**Instructor:** A. Book**Textbook:** TBA**Evaluation:** TBA**General Description:**

This course provides a broad overview of the field of forensic psychology, involving discussion of a variety of topics, including psychopathy, risk assessment, criminal profiling, deception, eyewitness identification, and jury decision-making.

Introduction to Human Neuropsychology**Course Number:** PSYC 3P59**Instructor:** V. Dwivedi**Textbook:** TBA**Evaluation:** TBA**General Description:**

Brain function and behaviour through basic research on neuropsychological and neurocognitive function through clinical syndromes and cases. Topics include neural basis of perception, memory, language, motor control, emotion and executive functions. Recovery and advances in assessment, diagnosis, prognosis and treatment of such functional deficits.

Introduction to Qualitative Research in Psychology**Course Number:** PSYC 3P62**Instructor:** S. Neufeld**Textbook:** TBA**Evaluation:** TBA**General Description:**

Qualitative research underpinnings (e.g. philosophical foundations and ethical issues), methodologies (e.g. interviews, focus groups, community-based research), and key analytical approaches (e.g. thematic analysis).

Brain and Language**Course Number:** PSYC 3P65**Instructor:** V. Dwivedi**Textbook:** TBA**Evaluation:** TBA**General Description:**

Neural basis of human language, emphasizing contemporary methods in cognitive neuroscience. Topics include methodology (e.g., behavioural and neuroimaging), biological and developmental bases of language, foundations of language, and word and sentence comprehension.

Sleep and Wakefulness

Course Number: PSYC 3P68

Instructor: K. Cote

Textbook: TBA

Evaluation: TBA

General Description:

In this course we will explore the nature of a universal human behaviour – sleep. We spend approximately 1/3 of our lives asleep, yet scientists cannot yet fully explain *why* we need sleep. The purpose of this course is to introduce you to the basics of sleep behaviour, through reading important scientific literature and learning the methods of sleep research. We will cover basic topics such as the neuroanatomy, physiology, phylogeny, circadian rhythms, and ontogeny of sleep. The second part of the course has a more applied focus, covering topics such as sleep disorders and their treatment. You will debate controversies such as, ‘what are the functions of sleep’ and ‘how much sleep do we really need’? You will also discuss how to raise awareness for issues such as the impact of sleepiness on academic performance, sleepy driving, and sleep disorders. It has been said that understanding the human brain is one of the last true scientific frontiers – unraveling the mysteries of sleep is a large part of that puzzle.

Drugs and Behaviour

Course Number: PSYC 3P72

Instructor: TBA

Textbook: TBA

Evaluation: TBA

General Description:

This course takes a multidisciplinary approach to understanding the effects of drugs on human behaviour. You will learn about the bio-psycho-social impact of drugs that are commonly used (e.g., caffeine, nicotine, alcohol, natural health products), and illicit and restricted drugs (e.g., stimulants, marijuana, hallucinogens, opiates). We will also cover some focussed topics on drugs use (e.g., performance-enhancing drugs, hypnotics, psychiatric medications). Issues of substance abuse will also be covered, including treatment and prevention. Presentations will be in the form of a digital audio-video on a specific topic. An essay will be required based upon your reading of the novel, *Memoirs of an Addicted Brain: A Neuroscientist Examines His Former Life on Drugs*, by Marc Lewis.

Stress

Course Number: PSYC 3P75

Instructor: C. Muir

Textbook: TBA

Evaluation: TBA

General Description:

Psychological, physiological and evolutionary explanations for stress are examined. The investigation of adaptive, non-adaptive and pathological responses to stress. Cognitive, emotional and behavioural factors related to occupations, environments, life events,

methods of appraisal, ways of coping and consequences for health.

Social Development

Course Number: PSYC 3P77

Instructor: A. Evans

Textbook: Parke, R. D., & Clarke-Steward, A. (2011). Social Development. John Wiley & Sons, Inc.

Evaluation:

General Description: Context, morality, aggression, friendship and other topics in social development from a variety of developmental perspectives focussing on childhood. Methodological issues relevant to the study of social development.

Behavioural Neuroscience

Course Number: PSYC 3P87

Instructor: P. Duarte Guterman

Textbook: TBA

Evaluation: TBA

General Description:

Integrative approach to basic neuroscience, focusing on behavioural analysis in animal models, insights into brain and behaviour relationships provided by the traditional and the latest techniques (e.g., stereotaxic surgery, DREADDs, viral vectors and optogenetics transgenic organisms).

Psychology Students' Transition to Work

Course Number: PSYC 4P07

Instructor: K. Arnell

Textbook: TBA

Evaluation: TBA

General Description:

Students will have the opportunity to reflect on skills and learning experience gained during their undergraduate degree, create an e-portfolio, prepare resume and cover letters, and explore possible career paths in Psychology. This is a blended course so students will attend lectures and complete online activities.

Data Science for Academic and Applied Research

Course Number: PSYC 4P08

Instructor: T. Willoughby

Textbook: TBA

Evaluation: TBA

General Description: Introduction to data management, analysis and visualization using relevant computer software. Provides hands-on experience analyzing interesting psychological questions.

Close Relationships

Course Number: PSYC 4P15

Instructor: S. Thai

Textbook: TBA

Evaluation: TBA

General Description: Social psychology of interpersonal relationships, especially romantic relationships and other close relationships (e.g., friendship). Psychological processes underlying the development, maintenance, disruption or end of personal relationships. Current social psychological theories of close relationships.

Organizational Psychology

Course Number: PSYC 4P18

Instructor: W. Hall

Textbook: TBA

Evaluation (tentative):

General Description: Psychological principles and research relevant to organizations and industry. Topics include hiring, training, work performance, leadership, and team dynamics.

Applied Cognitive Psychology

Course Number: PSYC 4P20

Instructor: K. Arnell

Textbook: TBA

Evaluation: TBA

General Description:

How basic principles of memory, attention, recognition and decision making influence our behaviour in everyday and forensic contexts, and how cognitive processes are shaped by physiological and emotional factors.

Person Perception

Course Number: PSYC 4P28

Instructor: C. Mondloch

Textbook: TBA

Evaluation: TBA

General Description: Examination of how we perceive and form impressions of other people, including the perception of facial displays of emotion, perception of facial identity and social judgements. Topics include the development of person perception, underlying neural mechanisms and implications for daily life.

Positive Psychology

Course Number: PSYC 4P30

Instructor: M. Busseri

Textbook: TBA

Evaluation: TBA

General Description:

Focus on positive experiences, characteristics, and institutions. Main themes include positive psychology as a source of information about well-being and optimal human functioning, central role of psychological science in the study of positive psychology,

positive psychology as a lens through which to view all psychological inquiry.

Psychosocial Problems in Adolescence and Early Adulthood

Course Number: PSYC 4P50

Instructor: E. Shulman

Textbook: TBA

Evaluation: TBA

General Description:

Examination of theory and research addressing psychosocial, mental health, interpersonal, and behavioural problems during the transition from childhood to adulthood; developmental precursors to these problems; interventions to prevent and/or mitigate negative outcomes; and efforts to enhance positive outcomes for adolescents and young adults.

Neural Mechanisms, Hormones, and Behaviour

Course Number: PSYC 4P55

Instructor: C. Muir

Textbook: TBA

Evaluation: TBA

General Description:

Relationships among the hormones of the endocrine system, the nervous system and behaviour; the involvement of hormones in sexual behaviour, the mechanisms of stress, and in cognition; and the relevant research methodologies.

Psychology of Bilingualism

Course Number: PSYC 4P60

Instructor: V. Dwivedi

Textbook: TBA

Evaluation: TBA

General Description: Methodology (e.g., behavioural and neuroimaging), second language acquisition (in children and adults), social psychological aspects of bilingualism and cognitive consequences of bilingualism.

Professional Topics in Psychology

Course Number: PSYC 4P69

Instructor: S. Neufeld

Textbook: TBA

Evaluation: TBA

General Description:

Topics may include privacy legislation, confidentiality, research ethics, post-degree training and professional programs, and other issues that individuals in psychology-related professions may face.

Psychology of Prejudice and Discrimination

Course Number: PSYC 4P71

Instructor: G. Hodson

Textbook: TBA

Evaluation: TBA

General Description:

Theory and research on the basic processes involved in prejudice and discrimination will be covered. Topics include stereotyping, emotions, competition, contemporary prejudice, implicit biases, individual differences and prejudice reduction.

The Psychology of Violent Predators

Course Number: PSYC 4P72

Instructor: A. Book

Textbook: TBA

Evaluation: TBA

General Description:

A multi-disciplinary approach is used in an effort to understand the psychology of criminals who engage in predatory violence, including serial killers, mass murderers, child molesters, and rapists. Students are introduced to the theories, concepts and research from the fields of psychology, sociology, criminology & criminal justice that social scientists employ to understand and respond to violent criminals.

History of Psychology

Course Number: PSYC 4P92

Instructor: W. Hall

Textbook: TBA

Evaluation: TBA

General Description:

The growth of psychology as a field has been a long and interesting journey, and is still unfolding. This course traces the way in which historically important individuals and movements have shaped psychology as we know it today. The issues we will explore for each person and/or school include the following: Who were the major figures in the movement and what were their cultural and educational contexts? What conceptual and/or methodological innovations did they introduce? Did they have an enduring influence and if so, what was it? If not, why not? How does their work relate to current issues you are dealing with in your thesis and other work?

Honours Seminar

Course Number: PSYC 4P93

Instructor: K. Cote, T. Willoughby

Textbook: TBA

Evaluation: TBA

General Description:

Discussion of Undergraduate thesis research and preparation, including examination of various topics in Psychology.