

# PSYC – PSYCHOLOGY

## PSYC 104

### Introductory Psychology I

**3 Credits Weekly (3-0-0)**

A survey of natural science topics in Psychology. The course covers the evolution of psychological sciences, research methods, biological psychology, consciousness, principles and development of perception, motivation, learning, and their relationship to the psychological functioning of the individual. If both PSYC 104 and PSYC 105 are to be taken it is recommended that students take PSYC 104 before taking PSYC 105.

## PSYC 105

### Introductory Psychology II

**3 Credits Weekly (3-0-0)**

A survey of social science topics in Psychology. This course is an introduction to the study of individual and social behavior including individual differences in behaviour, thought, intelligence, human development, personality, social behaviour, stress responses, as well as psychological disorders and their treatment. If both PSYC 104 and PSYC 105 are to be taken it is recommended that students take PSYC 104 before taking PSYC 105.

## PSYC 212

### Introduction to Research Methods in Psychology

**3 Credits Weekly (3-0-0)**

This course provides an introduction to experimental and non experimental methods in psychology. Topics covered include philosophy of science; measurement; reliability and validity of methods, measures, and effects; survey design; correlational, experimental, quasi-experimental, qualitative, longitudinal and single-subject designs; biases in experimentation; and research ethics.

*Prerequisites: Minimum grades of C- in PSYC 104, PSYC 105, and in STAT 151 or STAT 161 or equivalent, STAT 161 is strongly recommended.*

## PSYC 223

### Developmental Psychology

**3 Credits Weekly (3-0-0)**

Many aspects of human nature and behaviour change during the process of development. This course reviews the physical, sensory, motor, cognitive, social, and emotional changes during various developmental stages. Development in infancy, childhood, and adolescence is emphasized.

*Prerequisites: Minimum grades of C- in PSYC 104 and PSYC 105.*

## PSYC 233

### Personality

**3 Credits Weekly (3-0-0)**

In this survey of personality psychology, the student is introduced to a number of theoretical perspectives and methodological approaches to the study of personality. Additionally, assessment methods and research relevant to the study of personality are reviewed.

*Prerequisites: Minimum grades of C- in PSYC 104 and PSYC 105.*

## PSYC 241

### Social Psychology

**3 Credits Weekly (3-0-0)**

This course is a survey of theories and research on topics such as attitudes and attitude change, person perception, attraction, pro-social behaviour, aggression and applied social psychology. Note: PSYC 241 and SOCI 241 may not both be taken for credit.

*Prerequisites: A minimum grade of C- in PSYC 105 or in SOCI 100.*

## PSYC 258

### Cognitive Psychology

**3 Credits Weekly (3-0-0)**

This course surveys a number of topics in cognitive psychology including perception, attention, knowledge representation, memory, learning, language, reasoning, and problem solving.

*Prerequisites: Minimum grades of C- in PSYC 104 and PSYC 105.*

## PSYC 267

### Perception

**3 Credits Weekly (3-0-0)**

This course is an introduction to the theoretical and experimental issues associated with the sensory and perceptual experience of the world.

The main emphasis is on understanding basic perceptual phenomena, such as the relation between physical stimuli and experience. To this end, we must consider: The nature of the physical stimuli; the anatomy and physiology of the sense organs and receptors; the anatomy and physiology of the neural paths from receptors to the brain; how the brain processes sensory information; and the procedures used by researchers to obtain information about these systems.

*Prerequisites: Minimum grade of C- in PSYC 104.*

## PSYC 275

### Brain and Behaviour

**3 Credits Weekly (3-0-0)**

This course is an introduction to physiological psychology. Topics include sensation, perception, movement, motivation, memory, cognition, learning, and emotion from a biological point of view.

*Prerequisites: Minimum grade of C- in PSYC 104 (Biology 30 or equivalent is strongly recommended).*

## PSYC 281

### Principles of Behaviour

**3 Credits Weekly (3-0-0)**

This course is an introduction to the principles of learning and behaviour, with an emphasis on the processes of classical and operant conditioning. Basic research findings are discussed as well as the application of those findings to important aspects of human behaviour. Note: Students can only receive credit for one of PSYC 281 or PABA 281.

*Prerequisites: Minimum grade of C- in PSYC 104.*

## PSYC 301

### History of Psychology

**3 Credits Weekly (3-0-0)**

Psychology is a relatively young science, but its history is varied, intriguing and extends well beyond the first psychologists. From early philosophy, physiology and medicine, through the dawn of evolutionary theories and radical behaviourism, to the cognitive revolution and modern neuroscience, we examine the trends, competing theoretical perspectives and socio-political influences on the discipline in Western society.

*Prerequisites: Minimum grades of C- in at least one of PSYC 223, PSYC 233, PSYC 241, PSYC 258, plus one of PSYC 267, PSYC 275 or PSYC 281.*

**PSYC 305****Topics in Psychology****3 Credits Weekly (3-0-0)**

This course provides a focused study of a currently relevant or special topic in psychology. The topic for the course varies term to term and topics are posted in the department and on the department website prior to registration. Specific prerequisites for each topic are also posted, and students are advised to check the descriptions prior to requesting permission from the Chair. In general, these topics are suitable for students in the 3rd or 4th year of their studies. Additional prerequisites will be required depending on the topic.

*Prerequisites: Minimum grades of C- in PSYC 104 and PSYC 105 and consent of the department.*

**PSYC 306****Sports Psychology****3 Credits Weekly (3-0-0)**

This course is a study of the psychological factors that influence and are influenced by participation and performance in sport, exercise, and physical activity, and the application of the knowledge gained through this study to everyday settings.

*Prerequisites: Minimum grades of C- in at least one of PSYC 223, PSYC 233, PSYC 241, PSYC 258, plus one of PSYC 267, PSYC 275 or PSYC 281.*

**PSYC 307****Health Psychology****3 Credits Weekly (3-0-0)**

This course examines how biological, psychological, and social factors affect the efforts people make in maintaining health and addressing illness, the effectiveness with which they cope with and reduce stress and pain, and the recovery, rehabilitation and psychosocial adjustment of patients with serious health problems.

*Prerequisites: Minimum grades of C- in PSYC 104 and PSYC 105 plus at least two 200-level PSYC (p. 1) courses.*

**PSYC 312****Advanced Research Methods****3 Credits Weekly (3-2-0)**

This course emphasizes the following aspects of research methodology: design, analysis, ethics, reporting of results, and issues relevant to various areas of specialization in psychology. The advantages and limitations of particular research designs are explored. Students have the opportunity to gain first-hand experience with different research methodologies along with data collection. Toward the end of the course, students have the opportunity to present the results of original data in various formats. Note: This is a required course for students registered in the honours program.

*Prerequisites: A minimum grade of C- in PSYC 212 and consent of the department.*

**PSYC 315****Computational Thinking****3 Credits Weekly (3-0-0)**

Students will develop computational thinking skills as an approach to problem solving in this course. Students will learn the logical procedures and steps in the computational thinking approach which include decomposition, pattern recognition, abstraction, and algorithm design.

Note: Credit can only be obtained in one of PSYC 315 or MGTS 315.

*Prerequisites: Third year standing as well as minimum grades of C- in PSYC 104 or 105, and in one of STAT 151, STAT 161, or MGTS 103.*

**PSYC 324****Infant Development****3 Credits Weekly (3-0-0)**

This course reviews the biological and sociocultural influences on the development of human infants from conception up to the age of three. Research is discussed that has revealed the physical, cognitive, and psychosocial factors that serve to distinguish normal from abnormal developments. In addition, issues of concern to caregivers/parents are explored.

*Prerequisites: Minimum grade of C- in PSYC 223.*

**PSYC 326****Atypical Development****3 Credits Weekly (3-0-0)**

This course provides a theoretical and practical framework for conceptualizing atypical development and psychological disorders of children and adolescents. Prevalent clinical phenomena, treatment methods, approaches to preventing psychological disorders, and promoting optimal development are presented. Developmental, individual, familial, and social factors associated with disruptions in normative psychosocial growth are examined.

*Prerequisites: Minimum grade of C- in PSYC 223.*

**PSYC 328****Adult Development and Aging****3 Credits Weekly (3-0-0)**

This course describes and discusses development from early adulthood through the final stages of life. Topics include lifespan development theories and research methods, age changes in cognitive processes, intellectual functioning and personality, changes in relationships and work, physiological changes, psychopathology associated with aging, death and dying, and psychological services for the adult and the aged.

*Prerequisites: Minimum grade of C- in PSYC 223.*

**PSYC 333****Advanced Personality****3 Credits Weekly (3-0-0)**

This course is intended to advance students' understanding of personality theory and research. It provides an in-depth analysis of relevant personality theories, and discusses challenges and controversies in the areas of personality structure and processes.

*Prerequisites: Minimum grade of C- in PSYC 233.*

**PSYC 337****Forensic Psychology****3 Credits Weekly (3-0-0)**

This course surveys the topic areas addressed by researchers interested in the interface between psychology and the law. The course examines the participation of psychologists and the application of psychological science within the criminal justice system. Topics may include: psychological factors associated with eyewitness and jury experiences, risk assessment, criminal profiling and police investigations, violent offenders, mental health and the criminal justice system, and the influence of psychology in the legal system.

*Prerequisites: Minimum grades of C- in PSYC 104 and PSYC 105 and at least two 200-level courses in PSYC (p. 1).*

**PSYC 339****Abnormal Psychology****3 Credits Weekly (3-0-0)**

This course offers an introduction to topics that outline the study of abnormal behaviour. Using an integrated model that encompasses biological, psychological, and sociocultural perspectives, psychological disorders are examined on a wide range of issues that include assessment, etiology, and treatment. Topics and disorders may include anxiety disorders, mood disorders, sexual and gender identity disorders, eating disorders, sleep-wake disorders, addictive disorders, personality disorders, and schizophrenia.

*Prerequisites:* Minimum grade of C- in PSYC 104 and PSYC 105, plus at least one 200-level PSYC (p. 1) course (PSYC 233 or PSYC 275 recommended).

**PSYC 340****The Science of Work****3 Credits Weekly (2-1-0)**

This work-integrated learning laboratory course explores the application of empirical research from behavioral, cognitive, and social psychology to practical workplace challenges. Students will learn to implement evidence-based strategies to maximize productivity, manage stress, and excel in various industries. Topics include self-management, scheduling, work-life balance, leadership, and industrial-organization psychology. The course features a significant work-integrated component, allowing students to collaborate with local businesses on relevant projects, which will be presented at a capstone event.

*Prerequisites:* Minimum grades of C- in PSYC 241 and PSYC 212.

**PSYC 344****Laboratory in Social Psychology****3 Credits Weekly (2-1-0)**

The focus of this course will be on correlational and experimental research designs, hypothesis generation, data analysis and interpretation, scientific report writing, and scholarly communication. Students will gain hands-on experience in each of these areas through the in-depth study of select topics in social psychology.

*Prerequisites:* Minimum grades of C+ in PSYC 212 and PSYC 241.

**PSYC 350****Human Memory****3 Credits Weekly (3-0-0)**

This course reviews theoretical perspectives and empirical research methods that are related to the study of human memory. These build upon historical/biological foundations and core models of memory, and extend to complex forms of memory (i.e., episodic, semantic, autobiographical), as well as everyday applications and enhancement of memory strategies. This course also reviews the nature of forgetting, amnesia, and memory disorders. In addition, popular culture claims regarding memory and applied memory issues (e.g., false memories, memory and the law) may be covered.

*Prerequisites:* Minimum grade of C- in PSYC 258.

**PSYC 351****Spatial Cognition****3 Credits Weekly (3-0-0)**

This course examines how people learn, remember, and use spatial information such as landmarks to navigate effectively. Students will learn how spatial information is represented and processed in the brain, the role of early-life experience, and training (e.g., playing video games). The course will also explore effects of culture, sex differences and individual differences in navigational ability, and why and how people get lost. Although this course is designed to focus on humans, relevant research on non-human animals is also discussed.

*Prerequisites:* Minimum grade of C- in PSYC 212, and in one of PSYC 258 or PSYC 358.

**PSYC 355****Social Cognition****3 Credits Weekly (3-0-0)**

This course focuses on how social interaction is mediated by cognitive mechanisms including perception, attention, memory, thinking, judgments, and reasoning. This examination involves reviewing theoretical perspectives (e.g., cognitive, neuroscience, evolutionary) and empirical research on a variety of topics including heuristics, social information processing, social memory, attitudes, attribution, judgement and decision making, interpersonal relationships, and prejudice. Note: Both PSYC 241 and PSYC 258 are recommended as prerequisites.

*Prerequisites:* A minimum grade of C- in PSYC 258 or PSYC 241.

**PSYC 358****Comparative Cognition****3 Credits Weekly (3-0-0)**

Cognitive skills and processes differ across species in ways that are functionally significant. This course explores similarities and differences in memory, recognition and discrimination, foraging and tool use, social learning, social intelligence, and communication across a variety of species.

*Prerequisites:* Minimum grades of C- in PSYC 212 and in either PSYC 281 or PSYC 373.

**PSYC 367****Laboratory in Human Perception****3 Credits Weekly (2-1-0)**

This course presents a practical introduction to techniques used to measure perceptual performance. Lectures cover advanced topics in sensation and perception with special emphasis on a specific modality such as vision. Students also conduct experiments and complete assignments that introduce practical skills related to perceptual and/or sensory performance measurement.

*Prerequisites:* Minimum grades of C+ in PSYC 212 and PSYC 267.

**PSYC 369****Psychology of Music****3 Credits Weekly (3-0-0)**

This course reviews theoretical perspectives and empirical research on the psychology of music. Students explore how people perceive, learn, perform, and respond emotionally to music, and how they process music in the brain. Other topics include the evolutionary origins of music, the use of music for therapeutic purposes, and the effect of music training on non-musical skills.

*Prerequisites:* Minimum grade of C- in PSYC 104 and 105, and in at least two 200-level PSYC (p. 1).

**PSYC 370****Human Sexuality****3 Credits Weekly (3-0-0)**

This course offers a multidisciplinary perspective of human sexuality in a diverse world. Human sexual development and behaviour is explored from biological, psychological and sociocultural perspectives. This course explores the diversity of sexual and gender identity, human reproduction, sexual function and dysfunction, as well as challenges in research related to human sexuality.

*Prerequisites:* Minimum grades of C- in at least three 300- or 400- level PSYC (p. 1) courses.

**PSYC 373****Evolution and Human Behaviour****3 Credits Weekly (3-0-0)**

This course is an introduction to the study of human behaviour within an evolutionary context. Adaptive physiology, traits, perception, cognition, and other behaviours are explored by examining theories, methods, and results of research from various fields including psychology, anthropology, economics, and biology.

*Prerequisites:* Minimum grades of C- in two 200-level PSYC (p. 1) courses.

**PSYC 375****Applied Neuropharmacology****3 Credits Weekly (3-0-0)**

The course focuses on the mechanisms by which clinical and recreational drugs exert their effects. Students gain an understanding of drug action by examining neuropharmacology at molecular and cellular levels of analysis and exploring major neurotransmitter systems in the CNS (central nervous system). The effects of psychoactive drugs on major nervous system functions such as movement, sleep, and memory are reviewed. The pathogenesis and pharmacological management of major neurological and psychiatric disorders are also discussed.

*Prerequisites:* Minimum grade of C- in PSYC 275.

**PSYC 377****Human Neuropsychology****3 Credits Weekly (3-0-0)**

This course is an introduction to changes in behaviour and higher mental processes which result from structural changes to the brain. Through the use of clinical examples, the student becomes familiar with the neuroanatomical correlates of normal and abnormal behaviour in humans. The processes of neuropsychological assessment and diagnosis after insults to the brain is discussed.

*Prerequisites:* Minimum grade of C- in PSYC 275.

**PSYC 378****Laboratory in Brain and Cognition****3 Credits Weekly (2-1-0)**

The focus of this course will be on experimental design, hypothesis generation, data analysis and interpretation, scientific report writing, and scholarly communication. Students will gain hands-on experience in each of these areas through the in-depth study of select topics in brain and cognition.

*Prerequisites:* Minimum grades of C+ in PSYC 212, PSYC 275, and one of PSYC 267 or PSYC 258.

**PSYC 381****Animal Learning Field School****3 Credits Total (12-33-0)**

This course provides an introduction to applied learning and behaviour in a professional setting. While the principles of learning and behaviour are well-documented in laboratory environments, most applications of classical and operant conditioning take place in less-controlled settings with animals that exhibit unpredictable reactions, and have unknown histories. Trainers at a local wildlife rescue use conditioning techniques along with knowledge of species-specific traits and temperaments to shape and train behaviours that allow animals to be cared for in a park or zoo setting. In this course, students will observe live training sessions with a variety of species (may include kodiak bears, black bears, timber wolves, cougars, elk, raccoons, ravens). Students will also learn about and observe species-specific behaviours and traits, environmental enrichment procedures, and specific requirements for health and wellness for captive animals. The course includes one week residing on site at a wildlife rescue facility, where a variety of species are trained to accept and engage in health assessments, behavioural assessments, and public demonstrations.

*Prerequisites:* A minimum grade of C- in PSYC 281 and consent of the department.

**PSYC 385****Introduction to Applied Behaviour Analysis****3 Credits Weekly (3-0-0)**

This course examines the ways in which principles of conditioning and learning have been applied to areas of human concern. The basic concepts, specific techniques, and ethical issues involved in the field of applied behaviour analysis are surveyed. Note: Students can only receive credit for one of PSYC 385 and PABA 385.

*Prerequisites:* Minimum grade of C- in PSYC 281.

**PSYC 398****Independent Study****3 Credits Total (0-0-45)**

This course permits a student to work with an instructor to explore a specific topic in depth through research or directed reading in primary and secondary sources. The student builds academic skills under the direction of a faculty supervisor, to complete a research project or to learn a specialized technique. To be granted enrollment in the course, the student must have made prior arrangements with a faculty member willing to supervise his or her project. This course can be taken twice for credit.

*Prerequisites:* A minimum grade of C- in PSYC 212 and consent of the department.

**PSYC 400****Psychology Senior Seminar****3 Credits Weekly (0-0-3)**

The Psychology Senior Seminar allows students to integrate and apply the skills and knowledge acquired throughout their earlier training. Students focus on contemporary topics and controversies, including issues relevant to both academic and professional psychologists. Note: This course is required for students completing the Honours program in Psychology. Other Psychology majors who have completed PSYC 312 may request permission to enroll if space is available.

*Prerequisites:* A minimum grade of C- in PSYC 312 and consent of the department.



**PSYC 405****Special Topics in Psychology****3 Credits Weekly (0-0-3)**

This course provides an in-depth study of a psychology specialization or of a current issue in psychology. The topic for the course varies term to term and topics are posted in the department and on the department website prior to registration. Specific prerequisites for each topic are also posted, and students are advised to check the descriptions prior to requesting permission from the Chair. In general, these topics are suitable for students in the 3rd or 4th year of their studies.

*Prerequisites: Minimum grade of C- in PSYC 212 and department consent; sections may ALSO require additional unique prerequisites and students must check the descriptions on the website prior to requesting consent of the department.*

**PSYC 423****Topics in Development****3 Credits Weekly (0-0-3)**

This course provides an in-depth study of a topic in developmental psychology. The theoretical, methodological and applied issues are emphasized. The topic for the course varies year to year and is announced prior to registration. Possible topics include the role of parents in development, prenatal development, infancy, adolescence, cognitive development, social development, physical development or ecological theories of development.

*Prerequisites: Minimum grades of C- in PSYC 212 and PSYC 223.*

**PSYC 431****Psychometrics****3 Credits Weekly (3-0-0)**

This course provides an overview of theories, principles, and applications of psychological testing and assessment. The focus is on standardized psychological tests in the areas of intelligence, aptitude, personality, interests, and attitudes and values.

*Prerequisites: Minimum grades of C- in PSYC 212 and PSYC 339.*

**PSYC 435****Introduction to Clinical Psychology****3 Credits Weekly (0-0-3)**

This course examines the profession of clinical psychology, including topics such as clinical assessment and diagnosis, clinical judgment and decision making, psycho-therapeutic and community interventions, and professional ethics.

*Prerequisites: Minimum grades of C- in PSYC 212 and PSYC 339.*

**PSYC 437****Topics in Forensic Psychology****3 Credits Weekly (0-0-3)**

In this course, students critically discuss contemporary issues in forensic psychology in a seminar-based format. Material is drawn from both historical and current primary resources, with emphasis on research literature that explores theoretical and empirical approaches to the topic area. Evaluation is largely based on class presentations, participation, and written assignments. Topics vary from year to year, and may include (but are not limited to) psychopathy, deception, eyewitness memory, risk assessment, sexual and violent offenders, mental illness and crime, malingering, and ethical and legal issues in forensic psychology.

*Prerequisites: Minimum grades of C- in PSYC 212 and PSYC 337.*

**PSYC 438****Clinical Communication Skills in Psychology****3 Credits Weekly (3-0-0)**

This course concerns the study and development of professional helping skills. Topics include the helping relationship, interviewing skills, listening skills, confrontation skills, ethical and legal decision-making, and prevention of professional burnout. Please note that a large portion of the course involves role-playing exercises, and participation in these exercises counts for a significant portion of one's grade. Note: With consent of the department, PSYC 435 may be permitted as a co-requisite.

*Prerequisites: Minimum grades of C- in PSYC 212, PSYC 339, and PSYC 435 or equivalent.*

**PSYC 439****Psychology Field Placement****3 Credits Weekly (0-0-9)**

In this course, students are assigned to a psychologist in a public, private, or non-profit program where they apply their knowledge of abnormal psychology in a supervised field placement. Each student is involved in a project that significantly contributes to the organization's clinical practice (e.g., program manual, guidelines for practice) or to the organization's research endeavours (e.g., evaluation of a service within the program). Notes: This course does not fulfill the 400-level credit requirement of the Psychology Major and Minor. The number of placements may be limited in any given term, and therefore course enrollment will be contingent on the student's grades in the prerequisite courses and on the student's interests and skills. Certain placements may require other course prerequisites or co-requisites, depending on the nature of the placement.

*Prerequisites: Minimum grades of C- in PSYC 212 and PSYC 339, and consent of the department.*

**PSYC 440****Practice of Teaching in Psychology****3 Credits Total (0-0-45)**

Students learn the skills and expectations associated with teaching psychology at the university level. They function as a teaching assistant and are mentored by various faculty members in the Department of Psychology. Throughout this course, they attend workshops and lectures on teaching methods, evaluation methods, detecting and deterring academic dishonesty, and ethics associated with the practice of teaching. Students are also expected to lead scheduled tutorial sessions and collaborate with a supervising instructor as well as with a TA coordinator.

*Prerequisites: A minimum grade of C- in PSYC 212 and consent of the department.*

**PSYC 441****Separating Sense from Nonsense: Applying Social Psychology to Promote Scientific Skepticism****3 Credits Weekly (2-1-0)**

This course equips students with rigorous scientific and critical thinking skills necessary to evaluate and challenge claims of fringe science, the paranormal, and other unorthodox assertions about human behavior. It integrates cognitive science, research methodology, and social psychology to dissect and critically analyze pseudoscientific and questionable scientific claims sourced from both traditional research domains and contemporary media. Students will apply these skills in real-world settings, enhancing their ability to distinguish credible information from misinformation in an era dominated by digital and social media.

*Prerequisites: Minimum grades of C- in PSYC 241, PSYC 258, and PSYC 212.*

**PSYC 449****Topics in Social Psychology****3 Credits Weekly (0-0-3)**

This course offers an in-depth study of a specific topic in social psychology. The theoretical, methodological and applied issues are emphasized. The topic for the course varies year to year and is announced prior to registration. Possible topics include eyewitness testimony, prejudice and discrimination, media influences on aggression, and interpersonal attraction.

*Prerequisites: Minimum grades of C- in PSYC 212 and PSYC 241.*

**PSYC 456****Cognitive Assessment****3 Credits Weekly (3-1-0)**

This course covers the fundamentals of cognitive assessment, including test administration, scoring, interpretation, and report writing. The techniques and tools for evaluating several areas of cognitive functioning including intelligence, attention, memory, language, perception, learning, and complex cognitive processes such as critical thinking, problem solving, and creativity are surveyed. The Wechsler tests (e.g., WAIS-IV, WISC-IV, WPPSI-IV, WASI) and academic achievement measures are highlighted in this course.

*Prerequisites: Minimum grades of C- in PSYC 212 and PSYC 339.*

**PSYC 467****Special Topics in Perception****3 Credits Weekly (0-0-3)**

In this course, students critically discuss contemporary issues in sensation and perception in a seminar-based format. Material is largely drawn from both historical and current primary resources, with an emphasis on research literature that explores links between neural mechanisms and perceptual performance. Evaluation is largely based on class participation and written assignments.

*Prerequisites: Minimum grades of C- in PSYC 212 and in PSYC 267.*

**PSYC 473****Advanced Evolutionary Psychology****3 Credits Weekly (2-1-0)**

Students examine theory and evidence related to evolutionary psychology as applied to humans and other animals. In addition to analysis of journal articles and other primary sources, students replicate several studies in the laboratory in order to see first-hand some typical research methods associated with the field.

*Prerequisites: Minimum grade of C- in PSYC 212 and PSYC 373.*

**PSYC 475****Comparative Neuroanatomy****3 Credits Weekly (2-1-0)**

This is an advanced course in neuroanatomical organization, examining CNS (central nervous system) functions at molecular, cellular, and systems levels. The anatomy and functions of various tract systems and nuclei are compared across species and across levels of the nervous system. Fundamental concepts of nervous system organization, such as principles of neural coding and efficiency in wiring, and columnar organization of the cortex are discussed. The course features a combination of lectures and seminars based on readings of primary empirical literature. This course includes lab work in the gross CNS anatomy of a variety of species.

*Prerequisites: Minimum grades of C- in PSYC 212 and PSYC 275 and in two of PSYC 358, PSYC 367, PSYC 375, or PSYC 377; or consent of the department.*

**PSYC 498****Advanced Independent Study****3 Credits Total (0-0-45)**

This course permits an advanced student to work with an instructor to explore a specific topic in depth through research or directed reading in primary and secondary sources. The student plans, executes and reports the results of their independent research or study project under the direction of a faculty supervisor. To be granted enrollment in the course, the student must have made prior arrangements with a faculty member willing to supervise his or her project. This course can be taken twice for credit.

*Prerequisites: A minimum grade of C- in PSYC 212 and consent of the department.*

**PSYC 499A****Honours Thesis I****3 Credits Total (0-0-45)**

Under the direction of a faculty member, students conduct an empirical research project culminating in the Honours Thesis and formal presentation of research findings. Note: This course is open only to students in the Psychology honours program. Students complete both PSYC 499A and 499B in consecutive terms to attain credit in this course.

*Prerequisites: Minimum grade of C- in PSYC 312 and consent of the department.*

**PSYC 499B****Honours Thesis II****3 Credits Total (0-0-45)**

Under the direction of a faculty member, students conduct an empirical research project culminating in the Honours Thesis and formal presentation of research findings. Note: This course is open only to students in the Psychology honours program. Students must complete both PSYC 499A and 499B in consecutive terms to attain credit in this course.

*Prerequisites: Minimum grade of C- in PSYC 312 and consent of the department.*