

## SKHS Teaching Assistantships Positions Available for 2023-2024



### FALL 2023

#### a. HLTH courses:

##### **HLTH 101/3.0: Social Determinants of Health, Fall 2023**

This course introduces students to basic concepts in public, population and global health, and introduces social determinants of health, such as poverty, income inequality, and racism, in Canadian and global contexts.

*Instructor:* Dr. Stevenson Fergus

*TA allocation:* 1 Head TA at 20 hours Summer 2023 + 120 hours Fall 2023; 13 TAs at 120 hours; 1 TA at 60 hours

*Special note:* this course includes a head TA position as well as regular TA positions. Please indicate if you would like to be considered for the head TA role.

##### **HLTH 102/3.0: Personal Health and Wellness, Fall 2023 (Arts and Science Online)**

This course has been designed for undergraduate students who want to enhance their personal health awareness, knowledge, and practices. Through a combination of theoretical and experiential learning opportunities, students are introduced to the concepts of health and wellness from a personal perspective.

*Instructor:* Tami Morgan

*TA allocation:*

##### **HLTH 200/3.0: Physical Health and Exercise Programming, Fall 2023**

An overview of principles of physical fitness and wellness with an emphasis on the planning and implementation of a personalized physical fitness program.

*Instructor:* Dr. Nicole Beamish

*TA allocation:* 3 TAs at 120 hours

##### **HLTH 205/3.0: Introduction to Health Promotion, Fall 2023**

A survey of the practice of health promotion. Topics include the field's history, philosophies of health promotion, the social ecological framework, program planning and evaluation, practitioner skills and competencies, cultural competence, ethics, the use of theory, community organizing, social marketing, harm reduction, information literacy, and health promotion practice in selected settings.

*Instructor:* Dr. Joseph Kangmennaang

*TA allocation:* 3 TAs at 120 hours

*Special note:* HLTH 205 is a part of the Writing Instruction for TAs (WIT) program in SKHS. TAs receive additional training on how to teach and provide effective feedback on student writing.

##### **HLTH 230/3.0: Basic Human Nutrition, Fall 2023**

Study of macronutrients, selected micronutrients, energy needs for human performance, relationship of nutrient metabolism to health, consequences of nutrient deficiencies and excesses. Examine how student's own food intake may influence present and future nutritional well-being.

*Instructor:* Jeffrey Lalonde

*TA allocation:* 1 Head TA at 60 hours; 2 TAs at 120 hours

*Special note: this course includes a head TA position as well as regular TA positions. Please indicate if you would like to be considered for the head TA role.*

### **HLTH 235/3.0: Food Systems, Fall 2023**

This course introduces contemporary issues in the dominant food system and the ways in which food production, distribution and consumption produce and reproduce relations of power.

*Instructor:* Dr. Elaine Power

*TA allocation:* 3 TAs at 120 hours

### **HLTH 252/3.0: Introduction to Research Methods, Fall 2023**

This course provides an introduction to methods, techniques and approaches to research. The course will explore the formulation of research questions, experimental design, interpretation of results, and the use of statistical analysis in experimental research. Ethical issues in research will also be discussed.

*Instructor:* Dr. Eun-Young Lee

*TA allocation:* 1 Head TA at 60 hours; 4 TAs at 120 hours

*Special note: this course includes a head TA position as well as regular TA positions. Please indicate if you would like to be considered for the head TA role.*

### **HLTH 270/3.0: Movement Behaviours and Health, Fall 2023**

Movement is on a continuum that includes sleep, sedentary behaviour, and physical activity. This course will use primary prevention and life course approaches to study movement behaviour levels of the population, the influence of movement behaviours on health, and strategies for intervening on movement behaviours.

*Instructor:* Dr. Ian Janssen

*TA allocation:* 2 TAs at 120 hours

### **HLTH 315/3.0: Theory and Practice of Health Behaviour Change, Fall 2023**

This course provides an overview of models and theories of health behaviour change at varying levels of practice and analysis, including individual, intrapersonal, group, and community influences on health behaviour. Students will learn how theories are applied in health promotion interventions in a variety of settings, with a variety of populations, and for a variety of health behaviours.

*Instructor:* Dr. Amy Latimer-Cheung

*TA allocation:* 3 TAs at 120 hours

### **HLTH 332/3.0: Foundations for Understanding Disability: A Health Perspective, Fall 2023**

This course provides upper-year students with a solid understanding of disability. Key disability concepts, such as definitions and models of disability, attitudes, human rights, accessibility, policy, and barriers are introduced and their relevance to health, quality of life and participation in several life domains are examined.

*Instructor:* Janet Lawson

*TA allocation:* 1 TA at 60 hours; 3 TAs at 120 hours

### **HLTH 334/3.0: Health, Illness and Society, Fall 2023**

Explores cultural meanings of health and illness, the power dynamics through which these meanings are constructed, and related injustices in bodily experiences.

*Instructor:* Dr. Andrea Reid

*TA allocation:* 3 TAs at 120 hours

### **HLTH 360: Globalization and Black Health, Fall 2023**

Global interconnectedness and interdependence have contributed to improvements in the social determinants of health (SDH): the conditions in which people live, work and play, and their access to opportunities for healthy lives and wellbeing, however, it has also brought many health risks especially for marginalized populations. This course will examine economic, social, technological, and the political dimensions of globalization and how these impact the health and wellbeing of Black populations, identifying opportunities and risks.

*Instructor:* Dr. Joseph Kangmennaang

*TA Allocation:* 1 TA at 120 hours

### **HLTH 416/3.0: Program Planning and Evaluation, Fall 2023**

An examination and application of the principles of program planning in a variety of settings. Topics will include needs assessment, intervention design and implementation, and evaluation. Students will develop a program plan.

*Instructor:* TBD

*TA allocation:* 2 TAs at 120 hours; 1 TA at 60 hours

### **HLTH 430/3.0: Critical Weight Studies, Fall 2023**

We live in an anti-fat world where discrimination based on body size is a socially acceptable form of prejudice. This seminar style course draws on the rapidly developing literature in the scholarly field of fat studies to consider body weight and anti-fat bias and anti-fatness from critical, cultural perspectives.

*Instructor:* Andrea Reid

*TA allocation:* 1 TA at 20 hrs

### **HLTH 434/3.0: Social Movements in Health, Fall 2023**

This course explores the proliferation of health social movements since the 1970s. Bringing together the interdisciplinary study of health and illness with social movement theory, the course analyses the strategies, goals, and outcomes of political organizing around conditions ranging from HIV/AIDS to sick building syndrome. Students will lead seminar discussions and undertake original research on a movement of their choice.

*Instructor:* Mary Rita Holland

*TA allocation:* 1 TA at 20 hrs

### **HLTH 495/3.0: Special Topics Course: Critical Poverty Studies, Fall 2023**

This seminar explores poverty through a critical and interdisciplinary lens to examine how poverty intersects with various systems of oppression, the relationship between economic and health inequities, and state and community-based responses to income insecurity. We will seek to identify and challenge dominant narratives about poverty those experiencing it and explore the potential of alternative solutions and anti-poverty organizing. By the end of the seminar, students will have gained a deeper understanding of poverty and its underlying causes and consequences, along with the critical tools to engage in future learning, research, or advocacy.

*Instructor:* Chloe Halpenny

*TA allocation:* 1 TA at 20 hours

## **b. KNPE courses**

### **KNPE 153/3.0: Introductory Biomechanics, Fall 2023**

This course will present the fundamentals of biomechanics which includes an understanding of joint structure and function, forces and moments, tools used to record motion and use of these tools for description of motion and skill evaluation.

*Instructor:* Dr. Pouya Amiri

*TA allocation:* 3 TAs at 120 hours

**KNPE 225/3.0: Advanced Human Physiology, Fall 2023**

The emphasis will be placed on understanding the concept of homeostasis and the integrated control of cellular and organ responses involved in regulation to maintain homeostasis. Special emphasis will be placed on the systems that respond to exercise stress.

*Instructor:* Dr. Michael Tschakovsky

*TA allocation:* 3 TAs at 120 hours

**KNPE 237: Child and Adolescent Motor Development, Fall 2023**

*Instructor:* Dr. Gerome Manson

*TA allocation:* 1 TA at 120 hours

**KNPE 251/3.0: Introduction to Statistics, Fall 2023**

An introduction to the analysis of data from real life situations. Covers study design, descriptive and inferential statistics. Topics include probability, t-tests, regression, Chi-square tests, analysis of variance. Emphasis is in the foundation of statistical inference and practical application of statistical methods using statistical software.

*Instructor:* Dr. Sarah Yakimowski (Dept of Biology)

*TA allocation:* TBD

**KNPE 261/3.0: Theory of Motor Behaviour and Motor Learning, Fall 2023**

Provides an introductory understanding of how we control our movements and learn new motor skills. Explores current theories in motor control and learning, as well as the foundational sensorimotor and behavioural evidence that underpin these theories. A focus will be placed on applying this understanding to rehabilitation of movement disorders and acquisition of sport.

*Instructor:* Dr. Gerome Manson

*TA allocation:* 4 TAs at 120 hours

**KNPE 265/3.0: Psychology of Sport and Exercise, Fall 2023**

This course will introduce both theoretical and applied/professional aspects of human social behaviour in sport and exercise settings.

*Instructor:* Dr. Jean Côté

*TA allocation:* 2 TAs at 120 hours

**KNPE 330/4.5 and KNPE 430/4.5: Athletic Therapy Mini-Stream, Fall 2022 and Winter 2023**

Working with the Coordinator of Athletic Therapy in Queen's Athletics, students will complete a field placement that involves assignment to a varsity team as a student trainer. Student trainers are responsible for onsite coverage of the team during competition and possibly during practices. The student trainers are also responsible for the taping needs of athletes on the team and assisting with assessment and rehabilitation.

*Mini-Stream Coordinator:* Ryan Bennett (Athletics)

*TA allocation:* 1 TA at 60 hours per term (120 hours total)

*Special note:* Previous experience related to athletic therapy considered an asset.

**KNPE 335/3.0: Healthy Aging, Fall 2023**

This course looks at what happens to the body as we age, including an examination of the physiological, psychological and emotional changes that occur during the aging process. The role of a healthy lifestyle in achieving quality of life as we age is a key perspective.

*Instructor:* Madison Robertson

*TA allocation:* 3 TAs at 120 hours

**KNPE 336/3.0: Community Field Placement in Disability and Physical Activity, Fall 2023**

Students gain experience assisting adults with a disability to engage in exercise. Students develop an understanding of the nature of disability, the benefits of exercise, factors that promote exercise participation, and appropriate exercise prescription.

*Instructor:* Dr. Amy Latimer-Cheung

*TA allocation:* 4 TAs at 60 hours

*Special note:* TAs in this course must have previous experience with exercise programming for people with disabilities.

**KNPE 346/4.5 and KNPE 446/4.5: Strength & Conditioning Mini-Stream, Fall 2023 and Winter 2024**

Working with the Strength and Conditioning Head Coach in Queen's Athletics, students will complete a field placement that involves a range of practical experiences in the area of strength and conditioning programs for elite athletes. Practical sessions will be rotated weekly in order to provide students with a variety of experiences in program delivery, training sessions, and testing.

*Mini-Stream Coordinator:* Colin McAuslan (Athletics)

*TA allocation:* 1 TA at 60 hours per term (120 hours total)

*Special note:* Previous experience related to strength & conditioning considered an asset.

**KNPE 349/3.0: Sports Nutrition, Fall 2023**

An introduction to the physiological pathways that support energy production during endurance-type and resistance-type exercise. Students will investigate and critically evaluate nutritional interventions to potentiate these energy systems and promote post-exercise recovery. Students will develop and apply bespoke nutritional interventions to maximize sport performance.

*Instructor:* Dr. Chris McGlory

*TA allocation:* 1 TA at 120 hours

**KNPE 353/3.0: Experiments in Neuromechanical Kinesiology, Fall 2023**

This laboratory course focuses on advanced principles and techniques used in experiments in neuromechanical kinesiology, including applications in biomechanics, motor control, and neurophysiology. Students will gain hands on experience in scientific study design, human instrumentation and data collection, signal processing and data analysis, and scientific report writing.

*Instructor:* Dr. Jessica Selinger

*TA allocation:* 1 TA at 120 hours

**KNPE 355/3.0: Lifestyle and Cardiometabolic Assessment Laboratory, Fall 2023**

A lecture/laboratory experience designed to help prepare students to participate in a variety of multidisciplinary clinical and/or professional environments. Concept and skill development pertaining to exercise/lifestyle for general as well as selected special populations will prepare students for experiences in clinical and medical settings.

*Instructor:* Dr. Nicole Beamish

*TA allocation:* 3 TAs at 120 hours; 1 TA at 60 hours

**KNPE 363/3.0: Team Dynamics in Sport: Theory and Practice, Fall 2023**

This course explores group dynamics in sport and involves the integration of theory, research, and practice. Topics include team structure (e.g. roles), its processes (e.g., communication), and emergent states (e.g., cohesion). Students will be encouraged to critically analyze the body of research and discuss relevant practical implications.

*Instructor:* Dr. Luc Martin

*TA allocation: 2 TAs at 120 hours*

**KNPE 400/3.0: Professional Issues in Allied Health, Fall 2023**

Through problem-based learning, students will gain an understanding of what it means to be an applied health care professional. Students will work collaboratively on case studies and develop critical thinking skills to prepare them as they transition to their careers as health care practitioners.

*Instructor: Dr. Nicole Beamish*

*TA allocation: 5 TAs at 120 hours*

**KNPE 430/4.5: Athletic Therapy Placement, Fall 2023 and Winter 2023**

*See KNPE 330 above for details.*

**KNPE 436/3.0: Advanced Placement in Disability and Physical Activity, Fall 2023**

Students gain leadership experience in an exercise program for adults with a disability. Students develop an understanding of the operational considerations to run an adapted exercise program including the necessary human and financial resources, and the skills to develop, implement, and evaluate exercise opportunities for persons with a disability.

*Instructor: Dr. Amy Latimer-Cheung*

*TA allocation: 4 TAs at 60 hours*

*Special note: TAs in this course must have previous experience with exercise programming for people with disabilities.*

**KNPE 446/4.5: Strength & Conditioning Mini-Stream, Fall 2023 and Winter 2024**

*See KNPE 336 above for details.*

**KNPE 455/3.0: Advanced Physical Activity and Health, Fall 2023**

Provides advanced understanding of concepts related to the use of physical activity/lifestyle as a strategy for reducing morbidity and mortality in general and selected special populations in preparation to participate in a variety of multidisciplinary clinical and/or professional health care environments.

*Instructor: Dr. Bob Ross*

*TA allocation: 1 TA at 20 hours*

**KNPE 465/3.0: Sport Participation and Performance, Fall 2023**

An exploration of the theoretical and empirical work in the development of sport participation and performance. Specific discussion of the developmental aspects and learning conditions that allow individuals to maintain participation and reach high levels of excellence in sport will be included.

*Instructor: Dr. Jean Côté*

*TA allocation: 1 TA at 20 hrs*

**KNPE 493/3.0: Special Topics: Neural Basis of Human Sensorimotor Control, Fall 2023**

This seminar will examine the neural and cognitive processes that underlie the planning and control of voluntary actions. Specific topics include neural anatomy, neurophysiology, theories of motor control, movement disorders, and the neural substrates of reflexes, preprogrammed movements, and voluntary movement.

*Instructor: Dr. Gerome Manson*

*TA allocation: 1 TA at 20 hrs*

**WINTER 2024**

**a. HLTH courses:**

**HLTH 101/3.0: Social Determinants of Health, Winter 2024 (Arts and Science Online offering)**

This course introduces students to basic concepts in public, population and global health, and introduces social determinants of health, such as poverty, income inequality, and racism, in Canadian and global contexts. Online.

*Instructor:* Natalia Mukhina

*TA allocation:* TBC by ASO; estimate 8 TAs at 115 hours

**HLTH 102/3.0: Personal Health and Wellness, Winter 2024**

This course provides an introduction to the variety of factors which could affect a person's health and wellness.

*Instructor:* Heejun Lim

*TA allocation:* 1 Head TA at 60 hours; 4 TAs at 120 hours

**HLTH 200/3.0: Physical Fitness and Wellness, Winter 2024 (Arts and Science Online [ASO] Offering)**

An overview of principles of physical fitness and wellness with an emphasis on the planning and implementation of a personalized physical fitness program. Online.

*Instructor:* Dr. Nicole Beamish

*TA allocation:* TBC by ASO

**HLTH 205/3.0: Introduction to Health Promotion, Winter 2024 (Arts and Science Online [ASO] Offering)**

A survey of the practice of health promotion. Topics include the field's history, philosophies of health promotion, the social ecological framework, program planning and evaluation, practitioner skills and competencies, cultural competence, ethics, the use of theory, community organizing, social marketing, harm reduction, information literacy, and health promotion practice in selected settings. Online.

*Instructor:* Dr. Stevenson Fergus

*TA allocation:* TBC by ASO

**HLTH 230/3.0: Basic Human Nutrition, Winter 2024 (Arts and Science Online [ASO] Offering)**

Study of macronutrients, selected micronutrients, energy needs for human performance, relationship of nutrient metabolism to health, consequences of nutrient deficiencies and excesses. Examine how student's own food intake may influence present and future nutritional well-being. Online.

*Instructor:* Jeffrey Lalonde

*TA allocation:* TBC by ASO; estimate 5 TAs at 70 hrs each

**HLTH 237/3.0: An Introduction to Drugs, Drug Use and Drug Dependence, Winter 2023**

This course provides students with a contemporary and evidence-informed perspective on drugs, addiction, harm reduction and treatment. From pharmacokinetics to public policy, and from psychedelics to behavioural addictions, the course examines the timeless human interaction with these peculiar substances.

*Instructor:* Dr. Stevenson Fergus

*TA allocation:* 1 TA at 120 hours

**HLTH 305/3.0: Fundamentals of Health Policy, Winter 2024**

An overview of the fundamentals of health policy with an emphasis on the Canadian context. Topics to be discussed include history of the Canadian public health care system; the Canada Health Act; the political and economic environment of the Canadian health care system; issue and challenges in Canadian health policy; and comparative perspectives.

*Instructor:* Dr. Stevenson Fergus

*TA allocation:* 3 TAs at 120 hours

**HLTH 323/3.0: Epidemiology, Winter 2024**

Basic methods involved in researching the distribution and determinants of health and disease in populations. Core measurement (rates, standardization, impact, association) and interpretation (bias, confounding, interaction, chance) issues are covered. The course also examines epidemiological approaches to study design including descriptive (cross-sectional and ecological), observational (case-control and cohort), and experimental (randomized controlled trials) approaches. Restricted to students in a concentration in health studies, kinesiology or physical and health education.

*Instructor:* Dr. Eun-Young Lee

*TA allocation:* 4 TAs at 60 hours

**HLTH 331/3.0: Advanced Human Nutrition, Winter 2024**

Current issues relating to nutrition and health promotion/disease prevention. Such topics as cardiovascular disease, weight control, eating disorders, nutrient needs during the life cycle, fads and quackery, sociocultural, economic and media influences. Topics may vary.

*Instructor:* Dr. Chris McGlory

*TA allocation:* 2 TAs at 120 hours; 1 TA at 60 hours

**HLTH 333/3.0: Contemporary Issues in Human Sexuality, Winter 2024**

An investigation of current influences on sexual health. Issues will be considered from social, political, and historical perspectives. Topics which may be covered include sex education; lesbian, gay, bisexual, and transgender issues; sexual human rights; sexuality and war; HIV/AIDS; the history of marriage; and sexual violence.

*Instructor:* Dr. Mary Louise Adams

*TA allocation:* 3 TAs at 120 hours

**HLTH 350/3.0: Topics in Global Health, Winter 2024**

This course examines global health from a variety of perspectives, including anthropological, epidemiological, and sociological, to help understand the cultural and historical patterns shaping global health inequalities. With an emphasis on resource-poor countries, specific topics may include infectious and non-communicable diseases, nutrition and maternal health.

*Instructor:* Darby Whittaker

*TA allocation:* 2 TAs at 120 hours

**HLTH 410/3.0: Environment and Health, Winter 2024**

This seminar course provides advanced review of the major theoretical and epistemological approaches to the study of environment and health. Students will be exposed to academic literature across several disciplines that engage with environment-health nexus. The course is designed to provide a strong foundation for students interested in continuing into graduate level studies or public advocacy roles in population health promotion and related fields, with competencies in concepts and practices pertaining to ecohealth, therapeutic landscapes, One health, planetary health, and other current paradigms.

*Instructor:* Florence Dery

*TA allocation:* 1 TA at 20 hours

**HLTH 417/3.0: Community-Based Programming and Evaluation, Winter 2024**

Designed to advance student understanding of health promotion program planning, implementation, and evaluation, this course uses seminar discussion and community-based activities to provide students with core competencies required in health promotion and public health practice. Students complete a service learning project with community partners.



*Instructor:* Alyssa Comfort

*TA allocation:* 1 TA at 120 hours

**HLTH 445/3.0: Critical Health Promotion, Winter 2024**

This course provides advanced study of the major theoretical and methodological approaches in critical population health research. Students will be primarily exposed to academic literature in epidemiology and social sciences that engage with critical population health. Major epidemiologic studies of population health that illustrate critical perspectives will be discussed.

*Instructor:* Dr. Eun-Young Lee

*TA allocation:* 1 TA at 20 hours

**HLTH 497/3.0: Special Topics Course: Ecological Embodiment, Winter 2024**

This course stipulates that “the environment” is not located outside the body, but is instead part and parcel of it. It will consider what “ecological embodiment” means, and what it implies for thinking about health in the context of climate change. This course will draw on a broad range of interdisciplinary literature on food, fitness, and the environment, and will be informed by scholarship in Indigenous, critical race, feminist, multispecies and science studies.

*Instructor:* Dr. Andrea Reid

*TA allocation:* 1 TA at 20 hrs

**b. KNPE Courses**

**KNPE 125/3.0: Introduction to Human Physiology, Winter 2024**

This course provides an introduction to human physiology from the cellular to the systemic level with special emphasis on the systems that adapt to exercise stress. The following areas will be covered: the cell, nervous system, skeletal muscle system, respiratory system, cardiovascular system, neuroendocrine system, and renal system.

*Instructors:* Brendon Gurd

*TA allocation:* 1 Head TA at 60 hours; 3 TAs at 60 hours

**KNPE 167/3.0: Socio-Cultural Dimensions of Sport and Physical Activity, Winter 2024**

An introduction to sociological thinking about sport and physical activity. Among the topics to be discussed are: an exploration of what constitutes sport and under what conditions; how social relations of class, race, gender, and sexuality shape sport experiences; the business of sport; and the relationship between the media and sport.

*Instructor:* Niya St. Amant

*TA allocation:* 6 TAs at 120 hours; 1 TA at 60 hours

*Special note:* KNPE 167 is a part of the Writing Instruction for TAs (WIT) program in SKHS. TAs receive additional training on how to teach and provide effective feedback on student writing.

**KNPE 203: Coaching and Leadership in Sport, Winter 2024**

The aim of this course is to introduce the theory and methods of coaching. This course addresses topics such as athlete development, coaching models, coach education, coach behaviours, interpersonal relationships, and contextual influences on coaching. This course also reflects on methodological issues related to coaching research. A central aim of this course is to encourage students to reflect on how they might apply course content to real-life situations.

*Course instructor:* Dr. Jean Côté

*TA allocation:* 1 TA at 60 hours

**KNPE 227/3.0: Exercise Physiology, Winter 2024**

An introduction to the basic components of physiology as they apply to health, fitness and exercise physiology.

*Instructor:* Dr. Brendon Gurd

*TA allocation:* 2 TAs at 120 hours; 1 TA at 60 hours

**KNPE 254/3.0: Biomechanical Analysis of Human Movement, Winter 2024**

Students will learn to apply the knowledge and skills acquired in KNPE 153 to conduct detailed analyses of human movement including how to analyze human movement using information obtained from different measurement tools. Examples will be used to demonstrate how biomechanics can be used to enhance and maintain human health, fitness and performance.

*Instructor:* Dr. Jessica Selinger

*TA allocation:* 3 TAs at 120 hours

**KNPE 255/3.0: Physical Activity, Fitness and Health, Winter 2024**

An introduction to the interrelationships between physical activity, fitness and health. Current techniques for the measurement of health related fitness components, evaluation of diet, weight loss principles, psychological aspects of fitness and suitable activities for fitness development. Concepts related to prescription of physical activity and exercise counselling are introduced.

*Instructor:* Dr. Bob Ross

*TA allocation:* 4 TAs at 60 hours

**KNPE 327: Exercise Physiology Laboratory, Winter 2024**

This lecture/laboratory experience is designed to establish student understanding of, and technical skills in, the measurement of human physiological responses and performance capacity in exercise. Students will learn the technical and theoretical basis for such measurement and develop familiarity with tests of physiological function during rest and exercise. This is intended to prepare them for experiences in human performance, clinical and medical settings.

*Instructor:* Dr. Nicole Beamish

*TA allocation:* 2 TAs at 120 hours; 1 TA at 60 hours

**KNPE 330/4.5 and KNPE 430/4.5: Athletic Therapy Mini-Stream, Fall & Winter 2023-2024**

Working with the Coordinator of Athletic Therapy in Queen's Athletics, students will complete a field placement that involves assignment to a varsity team as a student trainer. Student trainers are responsible for onsite coverage of the team during competition and possibly during practices. The student trainers are also responsible for the taping needs of athletes on the team, and assisting with assessment and rehabilitation.

*Mini-Stream Coordinator:* Ryan Bennett (Athletics)

*TA allocation:* 1 TA at 60 hours per term (total 120 hours for full-year)

*Special note:* Previous experience related to athletic therapy considered an asset.

**KNPE 331/3.0: Care and Prevention of Athletic Injuries, Winter 2024**

The care and prevention of common athletic injuries with emphasis placed on the practical portion of taping and wrapping of athletic trauma.

*Instructor:* Dave Ross

*TA allocation:* 3 TAs at 60 hours

*Special note:* TAs in this class must have previous experience with taping athletic injuries.

### **KNPE 336/3.0: Community Field Placement in Disability and Physical Activity, Winter 2024**

Students gain experience assisting adults with a disability to engage in exercise. Students develop an understanding of the nature of disability, the benefits of exercise, factors that promote exercise participation, and appropriate exercise prescription.

*Instructor:* Dr. Amy Latimer-Cheung

*TA allocation:* 3 TAs at 60 hours

*Special note:* TAs in this course must have previous experience with exercise programming for people with disabilities.

### **KNPE 337/3.0: Physical Activity Promotion for Children and Youth, Winter 2024**

This course explores topics such as theoretical models of motivation, interest, and interpersonal behaviours, and the design, implementation, and provision of inclusive physical activity environments for children/youth. This course emphasizes the application of theory through activity-based classroom sessions and community placements.

*Instructor:* Beth Barz

*TA allocation:* 1 TA at 120 hours

*Special note:* Preference will be given to TAs with previous experience leading physical activity programming for children.

### **KNPE 339/3.0 Advanced Exercise Metabolism, Winter 2024**

This course focuses on aspects of skeletal muscle energy metabolism related to exercise, with a particular emphasis on the regulation of carbohydrate and fat metabolism and the mechanisms regulating their use as substrates for muscle during rest and exercise.

*Instructor:* Dr. Brendon Gurd

*Enrolment:* 60; *Components:* Lecture

*TA allocation:* 2 TAs at 60 hours each

### **KNPE 345/3.0 The Science and Methodology of Sport Training Conditioning Programs, Winter 2024**

This course focuses on the development of sport conditioning programs from periodization concepts to specific training components and how the components can be integrated to create a comprehensive and balanced athlete training plan. Laboratory sessions will work on skill development applicable to conducting training and conditioning programs.

*Instructors:* Colin McAuslan & Evan Karagiozov

*TA allocation:* 1 TA at 60 hours

### **KNPE 346/4.5 and KNPE 446/4.5: Strength & Conditioning Mini-Stream, Fall & Winter 2023-2024**

Working with the Strength and Conditioning Head Coach in Queen's Athletics, students will complete a field placement that involves a range of practical experiences in the area of strength and conditioning programs for elite athletes. Practical sessions will be rotated weekly in order to provide students with a variety of experiences in program delivery, training sessions, and testing.

*Mini-Stream Coordinator:* Colin McAuslan (Athletics)

*TA allocation:* 1 TA at 60 hours per term (total 120 hours for full-year)

*Special note:* Previous experience related to strength & conditioning considered an asset.

### **KNPE 354/3.0: Occupational Biomechanics and Physical Ergonomics, Winter 2024**

An introduction to occupational biomechanics and physical ergonomics. The course will apply principles of biomechanics to describe relationships between job demands, functional/tissue capacities and work-related injury. Demand, capacity and injury risk evaluation tools will also be presented.

*Instructor:* TBC

*TA allocation:* 1 TA at 120 hours (TBC)

### **KNPE 366/3.0: Race, Sport and Physical Activity, Winter 2024**

This course offers a critical exploration into how the social construction of race affects sport, health, and physical activity cultures, how sport may influence our understanding of race in society. We discuss how racism exists in these sporting spaces. The end goal is to understand how sport and health practitioners can incorporate anti-racism work.

*Instructor:* Dr. Courtney Szto

*TA allocation:* 1 TA at 120 hours

### **KNPE 436/3.0: Advanced Placement in Disability and Physical Activity, Winter 2024**

Students gain leadership experience in an exercise program for adults with a disability. Students develop an understanding of the operational considerations to run an adapted exercise program including the necessary human and financial resources, and the skills to develop, implement, and evaluate exercise opportunities for persons with a disability.

*Instructor:* Dr. Amy Latimer-Cheung

*TA allocation:* 3 TAs at 60 hours

*Special note:* TAs in this course must have previous experience with exercise programming for people with disabilities.

### **KNPE 346/4.5 and KNPE 446/4.5: Strength & Conditioning Mini-Stream, Fall & Winter 2023-2024**

Working with the Strength and Conditioning Head Coach in Queen's Athletics, students will complete a field placement that involves a range of practical experiences in the area of strength and conditioning programs for elite athletes. Practical sessions will be rotated weekly in order to provide students with a variety of experiences in program delivery, training sessions, and testing.

*Mini-Stream Coordinator:* Colin McAuslan (Athletics)

*TA allocation:* 1 TA at 60 hours per term (total 120 hours for full-year)

*Special note:* Previous experience related to strength & conditioning considered an asset.

### **KNPE 447: Advanced Exercise Physiology Laboratory, Winter 2024**

The physiological systems involved in exercise will be explored in weekly laboratory experiments by imposing experimental disturbances during exercise. Students will develop skills in reading and interpreting research, predicting the effects of experiment disturbances, and testing, analyzing and interpreting physiological responses in their experiments. The course format is intended to prepare students for knowledge consumption, application, and creation in the field of exercise physiology.

*Instructor:* Dr. Michael Tschakovsky

*TA allocation:* 1 TA at 120 hours

### **KNPE 449/3.0: Advanced Protein Metabolism, Winter 2024**

This seminar-based course will critically analyze a range of classic and contemporary literature related to the study of human muscle protein turnover in both the athletic and clinical setting. Specifically, the role of nutrition and exercise in controlling the size of skeletal muscle mass will be examined as well as the cellular and molecular factors that regulate protein turnover. Students will also gain a theoretical understanding regarding the use of stable isotopes in human metabolic research.

*Instructor:* Dr. Chris McGlory  
*TA allocation:* 1 TA at 20 hours

**KNPE 453/3.0: Locomotor Neuromechanics, Winter 2024**

The purpose of this course is to provide you with a comprehensive understanding of the mechanics, energetics, and control of human locomotion. We will explore current theories in biomechanics and motor control, as well as the foundational behavioral and sensorimotor evidence that underpin these theories. A focus will be placed on applying this understanding to the rehabilitation of movement disorders and the design and control of robotic assistive devices.

*Instructor:* Dr. Anthony Chen  
*TA allocation:* 1 TA at 20 hours

**KNPE 454/3.0: Clinical Biomechanics, Winter 2024**

Through this course students will learn how biomechanical tools and processes are used to evaluate motion and how the relevant outcome measures are used to characterize movement deficiencies and evaluate progress during the rehabilitation process.

*Instructor:* Dr. Pouya Amiri  
*TA allocation:* 1 TA at 20 hours

**KNPE 493/3.0: Special Topics: Interventions in Sports Psychology, Winter 2024**

The purpose of this course is to integrate theory, research, and practice in relation to interventions in sport psychology. Specifically, with the overarching objective of understanding the facilitation of athlete thriving, we will explore the process of engaging in one-on-one consultation, team building practices, and broader intervention development and delivery.

*Instructor:* Dr. Luc Martin  
*TA allocation:* 1 TA at 20 hours

**KNPE 493/3.0: Special Topics: Critical Research Appraisal in Exercise Physiology, Winter 2024**

In this seminar-based course students will use classic and contemporary exercise physiology literature to learn how to critically appraise research. Students will work within a specific discipline of exercise physiology of their choosing. This course will explore many topics related to critical research appraisal including study design, methodologies in exercise physiology, and experimental bias. A focus will be placed on how to conduct a systematic review and meta-analysis, and students will leave this course with an appreciation, knowledge, and skillset applicable to future research settings.

*Instructor:* Dr. Robert Ross  
*TA allocation:* 1 TA at 20 hours

**Summer 2024**

**a. HLTH courses**

**HLTH 101/3.0: Social Determinants of Health, Summer 2024 (Arts and Science Online [ASO] offering)**

This course introduces students to basic concepts in public, population and global health, and introduces social determinants of health, such as poverty, income inequality, and racism, in Canadian and global contexts.

*Instructor:* Dr. Stevenson Fergus  
*TA allocation:* TBC by ASO; estimate 7 TAs at 90 hours

**HLTH 230/3.0: Basic Human Nutrition, Summer 2024 (Arts and Science Online [ASO] offering)**

Study of macronutrients, selected micronutrients, energy needs for human performance, relationship of nutrient metabolism to health, consequences of nutrient deficiencies and excesses. Examine how student's own food intake may influence present and future nutritional well-being.

*Instructor:* TBC

TA allocation: TBC by ASO; estimate 5 TAs at 70 hours

**HLTH 332/3.0: Foundations for Understanding Disability: A Health Perspective, Summer 2024 (Arts and Science Online [ASO] offering)**

This course provides upper-year students with a solid understanding of disability. Key disability concepts, such as definitions and models of disability, attitudes, human rights, accessibility, policy, and barriers are introduced and their relevance to health, quality of life and participation in several life domains are examined.

*Instructor:* Kasie Murphy

TA allocation: TBC by ASO; 5 TAs at 60 hours

**b. KNPE Courses**

**KNPE 336/3.0: Community Field Placement in Disability and Physical Activity, Summer 2024**

Students gain experience assisting adults with a disability to engage in exercise. Students develop an understanding of the nature of disability, the benefits of exercise, factors that promote exercise participation, and appropriate exercise prescription.

*Instructor:* Dr. Amy Latimer-Cheung

*TA allocation:* Combined roles with KNPE 436/3.0 (see directly below); 2 TAs at 70 hours; 1 at 30 hours; 1 at 50 hours

*Special note:* TAs in this course must have previous experience with exercise programming for people with disabilities.

**KNPE 436/3.0: Advanced Placement in Disability and Physical Activity, Summer 2024**

Students gain leadership experience in an exercise program for adults with a disability. Students develop an understanding of the operational considerations to run an adapted exercise program including the necessary human and financial resources, and the skills to develop, implement, and evaluate exercise opportunities for persons with a disability.

*Instructor:* Dr. Amy Latimer-Cheung

*TA allocation:* Combined roles with KNPE 336/3.0 (see directly above)

*Special note:* TAs in this course must have previous experience with exercise programming for people with disabilities.