KINESIOLOGY AND HEALTH STUDIES

Courses

HLTH 101 Social Determinants of Health Units: 3.00
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.
NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.
NOTE Also offered at the Bader International Study Centre. Learning Hours may vary.
LEARNING HOURS 117 (12L;9T;24O;72P).
Requirements: Prerequisite None. Exclusion GLPH 171.
Offering Faculty: Faculty of Arts and Science

HLTH 102 Personal Health and Wellness Units: 3.00
This course provides an introduction to the variety of factors which could affect a person's health and wellness.
LEARNING HOURS 108 (36L;72P).
Requirements: Prerequisite None. Exclusion IDIS 199. One-Way Exclusion May not be taken with or after 12.0 units in KNPE (formerly PPHE; PHED; KINE). Note This course is not open to students in a KINE or PHED Plan.
Offering Faculty: Faculty of Arts and Science

HLTH 131 Basic Human Nutrition Units: 3.00
Requirements: Prerequisite Level 2 or above. Exclusion NURS 100. Recommended 4U Biology.
Offering Faculty: Faculty of Arts and Science

HLTH 200 Physical Fitness and Wellness Units: 3.00
An overview of principles of physical fitness and wellness with an emphasis on the planning and implementation of a personalized physical fitness program.
NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.
LEARNING HOURS 108 (36L;72P).
Requirements: Prerequisite Level 2 or above. One-Way Exclusion May not be taken with or after KNPE 227 (formerly PHED 155); KNPE 255 (formerly PHED 255). Note This course is not open to students in a KINE or PHED Plan.
Offering Faculty: Faculty of Arts and Science

HLTH 205 Introduction to Health Promotion Units: 3.00
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.
LEARNING HOURS 108 (36L;72P).
Requirements: Prerequisite Level 2 or above and registration in a HLTH Plan and HLTH 101.
Offering Faculty: Faculty of Arts and Science

HLTH 230 Basic Human Nutrition Units: 3.00
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.
NOTE Also offered online. Consult Arts and Science Online. Learning Hours may vary.
LEARNING HOURS 108 (36L;72P).
Requirements: Prerequisite Level 2 or above. Exclusion NURS 100. Recommended 4U Biology.
Offering Faculty: Faculty of Arts and Science

HLTH 235 Food Systems Units: 3.00
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.
LEARNING HOURS 108 (36L;72P).
Requirements: Prerequisite GNDS 120 or GPHY 101 or HLTH 101 or SOCY 122.
Offering Faculty: Faculty of Arts and Science

HLTH 237 An Introduction to Drugs, Drug Use and Drug Dependence Units: 3.00
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, we examine the timeless human interaction with these peculiar substances.
LEARNING HOURS 108 (36L;72P).
Requirements: Prerequisite PSYC 100.
Offering Faculty: Faculty of Arts and Science
HLTH 252 Introduction to Research Methods  Units: 3.00
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.
LEARNING HOURS 108 (36L;72P)
Requirements: 2nd yr HLTH, KINE, PHED co
Offering Faculty: Faculty of Arts and Science

HLTH 270 Movement Behaviours and Health  Units: 3.00
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.
LEARNING HOURS 108 (36L;72P).
Requirements: Prerequisite HLTH 102. Exclusion KNPE 255. Note This course is not open to students in a KINE or PHED Plan.
Offering Faculty: Faculty of Arts and Science

HLTH 300 Community-Based Practicum  Units: 3.00
A community-based practicum for Health Studies students to apply knowledge gained in theory-based courses and develop a range of professional skills. Practicum opportunities vary year to year, subject to availability of an appropriate placement in a relevant workplace setting.
NOTE Students are expected to participate in professional development workshops offered by the SKHS Coordinator and Career Services.
LEARNING HOURS 126 (18G;84Oc;24P)
Requirements: Prerequisite (Lvl 3 or above and reg in a HLTH major or medial Plan) and min cum GPA of 1.9 and permission of the Coordinator and the Ugrd Coordinator in the School of Kinesiology and Health Studies. Exclusion(s) HLTH 300; KNPE 330; KNPE 336; KNPE 346
Offering Faculty: Faculty of Arts and Science

HLTH 305 Fundamentals of Health Policy  Units: 3.00
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.
LEARNING HOURS 120 (36L;84P).
Requirements: Prerequisite Level 3 or above and HLTH 101. Exclusion HLTH 405.
Course Equivalencies: HLTH305; HLTH405
Offering Faculty: Faculty of Arts and Science

HLTH 315 Theory and Practice of Health Behaviour Change  Units: 3.00
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.
LEARNING HOURS 120 (36L;84P).
Requirements: Prerequisite PSYC 100 and (HLTH 205 or KNPE 265) and registration in a (HLTH, KINE or PHED Plan or the DIPA Certificate).
Offering Faculty: Faculty of Arts and Science

HLTH 323 Epidemiology  Units: 3.00
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.
LEARNING HOURS 120 (24L;6T;6G;84P).
Requirements: Prerequisite [(KNPE 251 or STAT_Options) and HLTH 252] or (STAT_Options and registration in a BCHM(H) or LISC(H) Plan). One-Way Exclusion May not be taken with or after EPID 301. Note Restricted to students in a HLTH/KINE/PHED Plan. Limited spaces for BCHM(H) and LISC(H) Plans.
Offering Faculty: Faculty of Arts and Science

HLTH 325 Epidemiology of Physical Activity, Fitness and Health  Units: 3.00
This course provides an in-depth examination of the epidemiology of physical activity, fitness and health. The course builds upon basic epidemiological methods and explores the relationship between physical activity and several health outcomes, including coronary heart disease, stroke, metabolic syndrome, type 2 diabetes and cancer.
Requirements: Pre HLTH323 Exclusion
Offering Faculty: Faculty of Arts and Science

HLTH 331 Advanced Human Nutrition  Units: 3.00
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.
LEARNING HOURS 120 (36L;84P).
Requirements: Prerequisite HLTH 230 or NURS 100.
Offering Faculty: Faculty of Arts and Science
HLTH 332 Foundations for Understanding Disability: A Health Perspective Units: 3.00
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.
NOTE Also offered at the Bader International Study Centre.
LEARNING HOURS 112 (36L;40;72P)
Requirements: Prerequisite Level 3 or above
Course Equivalencies: KNPE333, PHED333, PPHE333
Offering Faculty: Faculty of Arts and Science

HLTH 333 Contemporary Issues in Human Sexuality Units: 3.00
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.
LEARNING HOURS 120 (24L;12T;12G;72P).
Requirements: Prerequisite Level 3 or above and registration in a (HLTH, KINE or PHED Plan).
Offering Faculty: Faculty of Arts and Science

HLTH 334 Health, Illness and Society Units: 3.00
Explores the social production and cultural meanings of health and illness with a focus on power and struggle.
LEARNING HOURS 120 (24L;12T;84P).
Requirements: Prerequisite (Level 3 or above and registration in a [HLTH, KINE or PHED Plan] and [HLTH 101 or KNPE 167 or SOCY 122]).
Offering Faculty: Faculty of Arts and Science

HLTH 350 Topics in Global Health Units: 3.00
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.
NOTE Also offered at the Bader International Study Centre.
LEARNING HOURS 120 (36L;84P).
Requirements: Prerequisite Level 3 or above and HLTH 101.
Offering Faculty: Faculty of Arts and Science

HLTH 351 Health in Humanitarian Crisis Units: 3.00
Humanitarian crises due to natural disasters, armed conflict, disease outbreaks and other threats are growing contributors to ill-health worldwide. Case studies, evolving current events, and experiential learning will be utilized throughout the term to anchor course content.
LEARNING HOURS 129(18L;18S;12G;11O;10Oc;60P)
Offering Faculty: Faculty of Arts and Science

HLTH 352 Research Skills Development Practicum Units: 3.00
A practicum for students in Health Studies working in the research labs and on research projects of SKHS faculty members. Includes a seminar series covering research topics and methodologies in: Applied Exercise Science; Epidemiology; Health Promotion; Psychology of Sport; Physical Activity and Health; and Sociology of Sport and Health.
NOTE Students will apply for a research-based practicum at the end of their second year. Recommended for students who intend to complete HLTH 595.
LEARNING HOURS 140 (12S;84Pc;48P).
Requirements: Prerequisite Level 3 or above and registration in a HLTH Plan and KNPE 251 and permission of the course coordinator or the Undergraduate Coordinator in the School of Kinesiology and Health Studies. Corequisite HLTH 252. Exclusion KNPE 352.
Offering Faculty: Faculty of Arts and Science

HLTH 357 Special Topics Health Studies Units: 3.00
Intensive coverage of topics that are current and/or of special interest in the area of Health Studies. Offered periodically by visiting professors or members of faculty. Students should check with the School regarding availability of this course.
NOTE Restricted to students in a concentration in health studies, kinesiology or physical and health education.
NOTE Also offered at the Bader International Studies Centre, Herstmonceux. Learning Hours may vary.
LEARNING HOURS 120 (36L;84P)
Requirements: 3rd yr in HLTH, KINE, or PHED
Offering Faculty: Faculty of Arts and Science
HLTH 401 Interprofessional Collaborative Education  Units: 3.00
This course offers the theory and context of Interprofessional education and collaborative practice from a global policy viewpoint as well as the opportunity to develop and apply the required Interprofessional education core competencies. NOTE This course falls under a selection of courses with a focus on Interdisciplinary Studies in Global Health and Disability that will be offered only at the Bader International Study Centre.
LEARNING HOURS 129 (39L;5S;21G;240c;40P).
Requirements: Prerequisite Level 4 or above and a cumulative GPA of 1.90 or higher.
Offering Faculty: Faculty of Arts and Science

HLTH 402 Disability Studies: Issues, Research and Policy  Units: 3.00
This course is designed to advance student understanding of the field of disability studies through the examinations and analysis of disability issues in the global context. Current research and policy, controversial issues, and systems affecting people with disabilities worldwide will be the focus.
NOTE This course falls under a selection of courses with a focus on Interdisciplinary Studies in Global Health and Disability that will be offered only at the Bader International Study Centre.
NOTE Students who are unable to take HLTH 332 must complete the online training modules about the Accessibility for Ontarians with Disabilities Act prior to participation in the BISC Global Health and Disability Program. See http://www.queensu.ca/equity/accessibility/aoda
LEARNING HOURS 127 (30L;18G;390c;40P).
Requirements: Prerequisite (Level 4 or above and a cumulative GPA of 1.90 or higher and HLTH 332) or permission of the School.
Offering Faculty: Faculty of Arts and Science

HLTH 403 Community Based Rehabilitation  Units: 3.00
Explores global perspectives of Community Based Rehabilitation as a strategy for equalization of health, education and social inclusion of persons with disabilities. Design, implement and evaluate CBR programs and examine basic CBR frameworks, health and disability policy, global partnerships, education and training strategies.
NOTE This course falls under a selection of courses with a focus on Interdisciplinary Studies in Global Health and Disability that will be offered only at the Bader International Study Centre.
LEARNING HOURS 123 (42L;18G;230c;40P).
Requirements: Prerequisite Level 4 or above and a cumulative GPA of 1.90 or higher.
Offering Faculty: Faculty of Arts and Science

HLTH 404 Global Studies of Social Inclusion, Community Participation and Mental Illness  Units: 3.00
While people with disabilities continue to experience challenges to their full and equal community participation, in the context of mental illness they are subject to particularly profound levels of social exclusion at a global level. We will examine current disability discourse as it relates to mental illnesses and exclusion of this population.
NOTE This course falls under a selection of courses with a focus on Interdisciplinary Studies in Global Health and Disability that will be offered only at the Bader International Study Centre.
LEARNING HOURS 120 (30S;20G;4I;100c;56P).
Requirements: Prerequisite Level 4 or above and a cumulative GPA of 1.90 or higher.
Offering Faculty: Faculty of Arts and Science

HLTH 416 Program Planning and Evaluation  Units: 3.00
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.
NOTE In special circumstances, HLTH 315/3.0 may be taken concurrently with HLTH 416/3.0 in one's final year of the HLTH Major Plan. Permission of the Undergraduate Chair in the School of Kinesiology and Health Studied is required.
LEARNING HOURS 120 (36L;36G;48P).
Requirements: Prerequisite Level 4 and registration in a HLTH Major or Medial Plan and (HLTH 252 and HLTH 315) Exclusion No more than 6 units from HLTH415; HLTH416; HLTH417; no more than one course from LTH 416, BMED471; GLPH471; HLTH415
Offering Faculty: Faculty of Arts and Science

HLTH 417 Community-Based Programing and Evaluation  Units: 3.00
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.
LEARNING HOURS 120(36L;36G;48P)
Requirements: Prerequisite Lvl 4 in a HLTH Major or Medial; HLTH416; and a minimum cumulative GPA of 2.7 and permission of the SKHS Ugrd Coordinator. Exclusion No more than 6 units from HLTH415; HLTH416;HLTH417 or one course from HLTH 417; BMED 471; HLTH 415
Offering Faculty: Faculty of Arts and Science
**HLTH 430 Critical Weight Studies** Units: 3.00
We live in a fat-phobic world where discrimination on the basis of 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 fat-phobia from critical, cultural perspectives. LEARNING HOURS 120 (36S;84P).
**Requirements:** Prerequisite (Level 3 or above and registration in a HLTH Major or Medial Plan) or (Level 3 or above in a KINE or PHED Specialization Plan and [HLTH 333 or HLTH 334]).
**Offering Faculty:** Faculty of Arts and Science

**HLTH 434 Social Movements in Health** Units: 3.00
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. LEARNING HOURS 120 (24S;12G;84P).
**Requirements:** Prerequisite HLTH 333 or HLTH 334 or DEVS 355.
**Offering Faculty:** Faculty of Arts and Science

**HLTH 435 Seminar on HIV/AIDS Prevention** Units: 3.00
This seminar-style course involves critical assessment of HIV prevention interventions situated at varying levels of analysis and action. Consistent with the epidemiology of HIV/AIDS, the course focuses on interventions for disadvantaged and marginalized populations. Students should be prepared to lead discussion and present in class. LEARNING HOURS 120 (24S;12G;84P).
**Requirements:** Prerequisite Level 4 or above and registration in a (HLTH Major or Medial, KINE or PHED Plan) and HLTH 315.
**Offering Faculty:** Faculty of Arts and Science

**HLTH 437 Seminar on Harm Reduction** Units: 3.00
Covers the philosophy, history, implementation, and efficacy of interventions that aim to reduce adverse consequences of legal and illegal drug use, without a focus on drug use abstinence. Examples are drawn from Canada and worldwide. Also covers the application of harm reduction to other public health domains such as gambling and sex work. LEARNING HOURS 120 (36S;84P).
**Requirements:** Prerequisite Level 4 or above and registration in a (HLTH Major or Medial or KINE Plan) and HLTH 237. Exclusion HLTH 493 (Topic Title: Harm Reduction).
**Offering Faculty:** Faculty of Arts and Science

**HLTH 445 Critical Health Promotion** Units: 3.00
This course provides advanced study of the major theoretical and methodological approaches in critical health promotion. Students will be primarily exposed to academic literature across several disciplines that engage with critical health promotion. Case studies of health promotion practice that illustrate critical perspectives will be discussed. LEARNING HOURS 120 (36S; 84P).
**Requirements:** Prerequisite Level 4 or above and registration in a (HLTH Major or Medial, KINE or PHED Specialization Plan) and (HLTH 205 or HLTH 315). Exclusion HLTH 493 (Topic Title: Critical Health Promotion - 2014/15; 2015/16).
**Offering Faculty:** Faculty of Arts and Science
HLTH 493 Advanced Topics in Health Studies I Units: 3.00
Honours level courses exploring advanced topics that are current and/or of special interest in the area of health studies. Students should check with the School of Kinesiology and Health Studies regarding availability of these courses. LEARNING HOURS 120 (36L;84P).
**Requirements:** Prerequisite Level 4 or above and registration in a (HLTH Major or Medial, KINE or PHED Specialization Plan).
**Offering Faculty:** Faculty of Arts and Science

HLTH 495 Adv Topics in Health Studies II Units: 3.00
Honours level courses exploring advanced topics that are current and/or of special interest in the area of health studies. Students should check with the School of Kinesiology and Health Studies regarding availability of these courses. LEARNING HOURS 120 (36L;84P).
**Requirements:** Prerequisite Level 4 or above and registration in a (HLTH Major or Medial, KINE or PHED Specialization Plan).
**Offering Faculty:** Faculty of Arts and Science

HLTH 497 Special Topics in Health Studies I Units: 3.00
Intensive coverage of topics that are current and/or of special interest in the area of Health Studies. Offered periodically by visiting professors or members of faculty. Students should check with the School regarding availability of this course. NOTE Also offered at the Bader International Study Centre, Herstmonceux. Learning Hours may vary.
**Requirements:** Prerequisite Level 4 or above and registration in a (HLTH Major or Medial, KINE or PHED Specialization Plan).
**Offering Faculty:** Faculty of Arts and Science

HLTH 499 Honours Thesis in Health Studies Units: 6.00
An independent study involving a research proposal and project on an approved topic in the area of health enhancement or disease prevention. The research proposal will be completed in the fall term and the research project in the winter term. Students must arrange for a full-time faculty advisor in the School of Kinesiology and Health Studies. NOTE Limited spaces available; priority to Health Studies students.
**Requirements:** Prerequisite Level 4 or above and registration in a (HLTH Major or Medial, KINE or PHED Specialization Plan) and a cumulative GPA of 3.50 or higher and permission of the Supervisor and the Undergraduate Coordinator in the School of Kinesiology and Health Studies. Recommended HLTH 252.
**Offering Faculty:** Faculty of Arts and Science

KNPE 125 Introduction to Human Physiology Units: 3.00
This course provides an introduction to human physiology from the cellular to the systematic 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. LEARNING HOURS 108 (36L;72P).
**Requirements:** Prerequisite Level 1 or above and registration in a (HLTH, KINE or PHED Plan). Exclusion IDIS 150; PHGY 210; PHGY 212; PHGY 214; (PHGY 215 and PHGY 216).
**Offering Faculty:** Faculty of Arts and Science

KNPE 153 Introductory Biomechanics Units: 3.00
This course will present the fundamentals of biomechanics, including forces and moments, linear kinematics and kinetics, and work, power, and energy. Biomechanical tools and techniques used to assess human movement will also be introduced.
**Requirements:** Prerequisite Level 1 or above and registration in a (KINE or PHED Plan).
**Course Equivalencies:** KNPE153, PHED153
**Offering Faculty:** Faculty of Arts and Science

KNPE 167 Socio-Cult Dimensions of Sport and Physical Activity Units: 3.00
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.
**Requirements:** Prerequisite Level 1 or above and registration in a (KINE or PHED Plan).
**Course Equivalencies:** KNPE167, PHED167
**Offering Faculty:** Faculty of Arts and Science

KNPE 203 Coaching and Leadership in Sport Units: 3.00
The course will explore the concepts of coaching and leadership in relation to sport. The course addresses topics such as theoretical models of coaching and leadership, coaching behaviours, coach education, and the role of coaches in promoting performance, participation, and personal development through sport.
**Requirements:** Prerequisite Level 2 or above and registration in a (KINE or PHED Plan) and KNPE 265. Recommended KNPE 237.
**Course Equivalencies:** KNPE203, PHED303, PPHE203
**Offering Faculty:** Faculty of Arts and Science
KNPE 225  Advanced Human Physiology  Units: 3.00
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.
LEARNING HOURS 120 (36L;12T;72P).
Requirements: Prerequisite Level 2 or above and registration in a (HLTH, KINE or PHED Plan) and KNPE 125. Exclusion IDIS 150; PHGY 210; PHGY 212; PHGY 214; (PHGY 215 and PHGY 216).
Course Equivalencies: KINE225, KNPE225
Offering Faculty: Faculty of Arts and Science

KNPE 227  Exercise Physiology  Units: 3.00
An introduction to the basic components of physiology as they apply to health, fitness and exercise physiology.
LEARNING HOURS 108 (36L;72P).
Requirements: Prerequisite Level 2 or above and registration in a (KINE or PHED Plan) and KNPE 125 and KNPE 225.
Course Equivalencies: KNPE227, PHED155
Offering Faculty: Faculty of Arts and Science

KNPE 237  Child and Adolescent Motor Development  Units: 3.00
This course is an exploration of behavioural and biological research on physical activity and how it relates to the psychosocial, structural, and physiological development of children between birth and approximately age 13.
LEARNING HOURS 108 (36L;72P).
Requirements: Prerequisite Level 2 or above and registration in a (KINE or PHED Plan).
Course Equivalencies: KNPE237, PHED237, PPHE237
Offering Faculty: Faculty of Arts and Science

KNPE 251  Introduction to Statistics  Units: 3.00
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.
LEARNING HOURS 126 (12L;18Lb;48O;48P).
Requirements: Prerequisite Level 2 or above and registration in a (HLTH, KINE or PHED Plan). Exclusion BIOL 243; CHEE 209; COMM 162; ECON 250; GPHY 247; NURS 323; PHED 251; POLS 385; PSYC 202; SOCY 211; STAM 200; STAT 263; STAT 267; STAT 367.
Course Equivalencies: KNPE251, PHED251
Offering Faculty: Faculty of Arts and Science

KNPE 254  Biomechanical Analysis of Human Movement  Units: 3.00
Students will use biomechanical principles that describe how forces cause movement, from whole-body motions to tissue level processes, in order to solve problems in human movement. Biomechanical techniques and tools will be discussed, with a focus on applications in clinical movement disorders and performance in sport and exercise.
LEARNING HOURS 117 (36L;9Lb;72P).
Requirements: Prerequisite Level 2 or above and registration in a KINE or PHED Plan and KNPE 153. Exclusion KNPE 353. Recommended ANAT 315.
Offering Faculty: Faculty of Arts and Science

KNPE 255  Physical Activity, Fitness and Health  Units: 3.00
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 counseling are introduced.
LEARNING HOURS 108 (36L;72P).
Requirements: KNPE125 CO KNPE227
Course Equivalencies: KNPE255, PHED255
Offering Faculty: Faculty of Arts and Science

KNPE 261  Theory of Motor Behaviour and Motor Learning  Units: 3.00
Students will understand motor skill acquisition principles and procedures available to optimize learning in physical activity programs. The principles and theories outlined in this course will provide students with a basic knowledge of sensorimotor behaviour for applications in physical education, kinesiology, and rehabilitation.
LEARNING HOURS 132 (30L;12Lb;6G;84P).
Requirements: Prerequisite Level 2 or above and registration in a (KINE or PHED Plan).
Course Equivalencies: KNPE261, PHED261
Offering Faculty: Faculty of Arts and Science

KNPE 265  Psychology of Sport and Exercise  Units: 3.00
This course will introduce both theoretical and applied/professional aspects of human social behaviour in sport and exercise settings.
LEARNING HOURS 108 (36L;72P).
Requirements: Prerequisite Level 2 or above and registration in a (HLTH, KINE or PHED Plan). Corequisite PSYC 100.
Course Equivalencies: KNPE265, PHED165
Offering Faculty: Faculty of Arts and Science
KNPE 300 Community-Based Internship  Units: 3.00
A community-based internship for Kinesiology and Physical Education students to apply knowledge gained in theory-based courses and develop a range of professional skills. Internship opportunities vary year to year, subject to availability of an appropriate placement in a relevant workplace setting.
NOTE Students are expected to participate in professional development workshops offered by the SKHS Internship Coordinator and Career Services.
LEARNING HOURS 126 (18G;84Oc;24P)
Requirements: Prerequisite (Lvl 3 or above and reg in a KINE or PHED Plan) and min cum GPA of 1.9 and permission of the Coordinator and the Ugrd Coordinator in the School of Kinesiology and Health Studies. Exclusion(s) HLTH 300; KNPE 330; KNPE 336; KNPE 346
Offering Faculty: Faculty of Arts and Science

KNPE 327 Exercise Physiology Laboratory  Units: 3.00
A laboratory experience designed to establish understanding of, and technical skills in, the measurement of human physiological responses and performance capacity in exercise. Students will develop familiarity with tests of physiological function during rest and exercise in preparation for work in human performance, clinical and medical settings.
LEARNING HOURS 126 (24L;36Lb;6I;12O;48P)
Requirements: Prerequisite Level 3 or above and registration in a (KINE or PHED Specialization Plan) and ANAT 315 and ANAT 316. Course Equivalencies: KNPE331, PHED331, PPHE331
Offering Faculty: Faculty of Arts and Science

KNPE 330 Athletic Therapy Field Placement  Units: 4.50
Under the tutelage of the Coordinator of Athletic Therapy Services, 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.
NOTE Students must hold valid First Aid/CPR certification and proof of completion of Athletic Therapy experience (36 hours) in second year.
LEARNING HOURS 177 (165Pc;12P)
Requirements: Prerequisite Level 3 or above and registration in a (KINE or PHED Specialization Plan) and (ANAT 315 and KNPE 331) and (a cumulative GPA of 2.70 or higher) and permission of the course coordinator and the Undergraduate Coordinator in the School of Kinesiology and Health Studies. Exclusion HLTH 300; KNPE 300; KNPE 346.
Offering Faculty: Faculty of Arts and Science

KNPE 331 Care and Prevention of Athletic Injuries  Units: 3.00
The care and prevention of common athletic injuries with emphasis placed on the practical portion of taping and wrapping of athletic trauma.
NOTE Materials Fees: Estimated cost $30.
LEARNING HOURS 120 (24L;24Lb;72P)
Requirements: Prerequisite Level 3 or above and registration in a (KINE or PHED Plan) and ANAT 315 and ANAT 316.
Course Equivalencies: KNPE331, PHED331, PPHE331
Offering Faculty: Faculty of Arts and Science

KNPE 335 Healthy Aging  Units: 3.00
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.
NOTE Also offered at the Bader International Study Centre. Learning Hours may vary.
LEARNING HOURS 120 (36L;84P).
 Requirements: Prerequisite (Lvl 3 or above and registration in a (HLTH, KINE or DIPA plan).
Course Equivalencies: KNPE335, PHED335, PPHE335
Offering Faculty: Faculty of Arts and Science

KNPE 336 Community Field Placement in Disability and Physical Activity  Units: 3.00
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.
NOTE Students must hold valid First Aid/CPR certification.
NOTE Uniform $25.
LEARNING HOURS 138 (18S;84Pc;12O;24P)
Requirements: Prerequisite Level 3 or above and (HLTH 200 or KNPE 255) or registration in the Certificate in Disability and Physical Activity. Corequisite HLTH 332 Exclusion(s) HLTH 300; KNPE 300; KNPE 330; KNPE 346
Offering Faculty: Faculty of Arts and Science
KNPE 337  Physical Activity Promotion for Children and Youth  Units: 3.00
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.
NOTE Transportation and other costs directly related to the student (e.g. required Criminal Checks) are the responsibility of the student.
LEARNING HOURS 120 (18L;18Lb;24O;60P).
Requirements: Prerequisite Level 3 or above and registration in a KINE or HLTH Plan and (KNPE 237 or HLTH 270).
Offering Faculty: Faculty of Arts and Science

KNPE 338  Exploring Active Urban Communities  Units: 3.00
The goal of this course is to explore the interconnections between active living, natural spaces and the built urban environment. Students will participate in an expedition style learning experience spending a week traveling and learning together as a group; engaging with community members; and partaking in an array of recreational activities.
NOTE An additional fee of approximately $400 is charged to defray cost of transportation, accommodation, and food. Students will need to provide some of their own camping equipment (example; sleeping bag, sleeping pad, rain gear). General equipment for the outdoor education camp school will be provided.
LEARNING HOURS 110 (40G;50Oc;20P).
Requirements: Prerequisite Level 3 or above and registration in a (HLTH Major or Medial, KINE or PHED Plan). Equivalency PACT 338.
Course Equivalencies: PACT338, PHED338
Offering Faculty: Faculty of Arts and Science

KNPE 339  Advanced Exercise Metabolism  Units: 3.00
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.
LEARNING HOURS 120 (36L;84P).
Requirements: Prerequisite Level 3 or above and registration in a (KINE or PHED Specialization Plan) and KNPE 225 and KNPE 227. Equivalency KNPE 427.
Course Equivalencies: KINE427, KNPE427, PHED427
Offering Faculty: Faculty of Arts and Science

KNPE 345  The Science and Methodology of Sport Training Conditioning Programs  Units: 3.00
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.
LEARNING HOURS 126 (36L;18Pc;72P)
Requirements: (KNPE125 AND KNPE227) OR PHED155
Course Equivalencies: KNPE345, PHED245, PPHE345
Offering Faculty: Faculty of Arts and Science

KNPE 346  Strength and Conditioning Field Placement  Units: 4.50
Under the tutelage of the Strength and Conditioning Coordinator, 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.
NOTE Students must hold valid First Aid/CPR certification and proof of completion of Athletic Therapy experience (36 hours) in second year.
LEARNING HOURS 168 (120Pc;24G;24P)
Offering Faculty: Faculty of Arts and Science

KNPE 352  Research Skills Development Internship  Units: 3.00
An internship for students in Kinesiology and Physical Education working in the research labs and on research projects of SKHS faculty members. Includes a seminar series covering research topics and methodologies in: Applied Exercise Science, Epidemiology, Health Promotion, Psychology of Sport and Physical Activity, and Sociology of Sport and Health.
NOTE Students will apply for a research-based internship at the end of their second year. Recommended for students who intend to complete KNPE 595.
LEARNING HOURS 140 (12S;80Pc;48P).
Requirements: Prerequisite Level 3 or above and registration in a (KINE or PHED Specialization Plan) and KNPE 251 and permission of the course coordinator or the Undergraduate Coordinator. Corequisite HLTH 252. Exclusion HLTH 352.
Offering Faculty: Faculty of Arts and Science
KNPE 354 Occupational Biomechanics and Physical Ergonomics Units: 3.00
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.
LEARNING HOURS 120 (36L;84P)
Requirements: pre LVL3KINE; PHEDKNPE254
Course Equivalencies: KNEP253; KNPE354
Offering Faculty: Faculty of Arts and Science

KNPE 355 Lifestyle and Cardiometabolic Assessment Laboratory Units: 3.00
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.
LEARNING HOURS 120 (12L;36Lb;72P).
Requirements: Prerequisite Level 3 or above and registration in a (KINE or PHED Plan) and KNPE 125, KNPE 225, KNPE 227 and KNPE 255. Note Priority enrolment is given to students in (Level 3-KINE Specialization Plan) followed by students in (Level 3-PHED Specialization Plan).
Offering Faculty: Faculty of Arts and Science

KNPE 363 Team Dynamics in Sport: Theory and Practice Units: 3.00
This course explores group dynamics in sport and involves the integration of theory, research, and practice. Topics include team structure (e.g. roles), it 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.
LEARNING HOURS 120 (36L;84P).
Requirements: Prerequisite Level 3 or above and registration in a (KINE or PHED Plan) and KNPE 265.
Course Equivalencies: KINE363, KNPE363, PHED363
Offering Faculty: Faculty of Arts and Science

KNPE 365 Motivational Interviewing for Physical Activity Behaviour Change Units: 3.00
Study of strategies to enhance intrinsic motivation and self-regulation for physical activity and health behaviour change in clinical settings. Students will learn and practice motivational interviewing skills for behaviour change in intensive weekly tutorial sessions.
LEARNING HOURS 126 (18L;24T;84P).
Requirements: Prerequisite Level 3 or above and registration in a (HLTH, KINE or PHED Plan) and PSYC 100 and (KNPE 265 or HLTH 315).
Course Equivalencies: KINE365, KNPE365, PHED365
Offering Faculty: Faculty of Arts and Science

KNPE 366 Race, Sport and Physical Activity Units: 3.00
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.
LEARNING HOURS 120 (36L;120;72P).
Requirements: Prerequisite Level 3 or above and registration in a (HLTH or KINE Plan) and (KNPE 167 or HLTH 101). Exclusion KNPE 397 (Topic Title: Race, Sport and Physical Cultures - Fall 2018; Fall 2020).
Offering Faculty: Faculty of Arts and Science

KNPE 367 Fitness, the Body and Culture Units: 3.00
This course looks at the ways that notions of fitness are tied to historically specific ideas about the body. The course focuses on ideas about race, class, gender, ability and sexuality while addressing the politics of fitness and exercise and their relationship to social, economic, and cultural institutions.
LEARNING HOURS 129 (36L;9Lb;84P).
Requirements: Prerequisite KNPE 167 or SOCY 221 or (SOCY 226 and SOCY 227).
Course Equivalencies: KINE367, KNPE367, PHED367
Offering Faculty: Faculty of Arts and Science

KNPE 397 Special Topics in Kinesiology Units: 3.00
Intensive coverage of topics that are current and/or of special interest in the area of Kinesiology. Offered periodically.
LEARNING HOURS 120 (36L;84P).
Requirements: Prerequisite Level 3 or above and registration in a (KINE or PHED Plan).
Offering Faculty: Faculty of Arts and Science
KNPE 400 Professional Issues in Allied Health  Units: 3.00
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.
LEARNING HOURS 120 (24L;12G;84P).
Requirements: Prerequisite Level 4 or above and registration in a (HLTH Major, KINE or PHED Specialization Plan).
Offering Faculty: Faculty of Arts and Science

KNPE 425 Physiology of Stress  Units: 3.00
An in-depth exploration of physiological responses to primarily psychological sources of stress. An emphasis is placed on understanding the interaction between stress responses and function/health and the action of selected stress management techniques.
LEARNING HOURS 120 (36L/S;84P).
Requirements: Prerequisite Level 4 or above and registration in a (KINE or PHED Specialization Plan) and KNPE 225 and KNPE 227. Exclusion KNPE 493 (Topic Title: Stress Physiology - 2015/16).
Offering Faculty: Faculty of Arts and Science

KNPE 429 Skeletal Muscle Oxygen Delivery: Demand Matching in Exercise  Units: 3.00
The focus of this course is to develop an advanced understanding of cardiovascular and respiratory responses in meeting oxygen demand of exercising skeletal muscle. Topics: oxygen delivery in exercising skeletal muscle metabolism/contraction; compromised exercise performance in selected diseases; mechanisms of enhancement of exercise tolerance.
LEARNING HOURS 132 (36L;12T;12O;72P).
Requirements: Prerequisite Level 3 or above and registration in a (KINE or PHED Specialization Plan) and KNPE 125 and KNPE 225 and KNPE 227.

Course Equivalencies: KINE429, KNPE429, PHED429
Offering Faculty: Faculty of Arts and Science

KNPE 430 Athletic Therapy Internship  Units: 4.50
Working with the Coordinator of Athletic Therapy (AT), and building on the practical skills and knowledge acquired in KNPE 330/3.0, students will complete an Athletic Therapy internship. AT interns will be responsible for serving as a mentor to student trainers and onsite trainers in the Athletic Therapy clinic and at varsity events. They will also serve as teaching assistants in the laboratory component of KNPE 331. 
NOTE Valid First Aid/CPR Certification required.
LEARNING HOURS 189 (165Pc;24P).
Requirements: Prerequisite Level 4 or above and registration in a (KINE or PHED Specialization Plan) and KNPE 330 and a (cumulative GPA of 2.70 or higher) and permission of the course coordinator and the Undergraduate Coordinator in the School of Kinesiology and Health Studies.
Offering Faculty: Faculty of Arts and Science

KNPE 433 Global Sport and Disability  Units: 3.00
The UN recognizes the important role of sport participation in promoting physical and mental health as well as fundamental human rights. This course will critique the use of sport and recreation on a global level as a tool for improving the lives of people with disabilities with the goal of removing barriers and enabling participation for all.
NOTE Also offered at the Bader International Study Centre. Learning Hours may vary.
LEARNING HOURS 125 (27L;8S;4Pc;8G;16Oc;62P).
Requirements: Prerequisite Level 3 or above and registration in a KINE or PHED Specialization Plan or a HLTH Major or Medial Plan or [registration in the Certificate in Disability and Physical Activity and HLTH 332] or [registration at the BISC]). Exclusion HLTH 497 (Topic Title: Global Sport and Disability - 2015/16).
Offering Faculty: Faculty of Arts and Science

KNPE 436 Advanced Placement in Disability and Physical Activity  Units: 3.00
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.
NOTE Students must hold valid First Aid/CPR certification.
NOTE Uniform $25.
LEARNING HOURS 138(18S;84Pc;12O;24P)
Offering Faculty: Faculty of Arts and Science
KNPE 439  Critical Appraisal and Translation of Muscle Physiology Research  Units: 3.00
In this course students will read, evaluate and discuss recent scientific literature in the areas of exercise metabolism, exercise nutrition, and performance. Students will develop a systematic approach to scientific writing and write translational literature that accurately communicates recent scientific findings to the general population.
LEARNING HOURS 132 (36S;96P).
Requirements: Prerequisite Level 4 or above and registration in a (KINE or PHED Specialization Plan) and KNPE 339. Exclusion KNPE 493 (Fall 2016).
Offering Faculty: Faculty of Arts and Science

KNPE 446  Strength and Conditioning Internship  Units: 4.50
Building on the skills and knowledge acquired in KNPE 346/3.0, students will complete a Strength and Conditioning (SC) internship with a varsity team. SC interns will be responsible for the design and implementation of training programs, functional screening, and athlete injury management. They will also assist with the Complete Athlete program and contribute to the laboratory component of KNPE 345/3.0 as TA's.
NOTE Valid First Aid/CPR Certification required.
LEARNING HOURS 168 (120Pc;24G;24P).
Requirements: Prerequisite Level 4 or above and registration in a (KINE or PHED Specialization Plan) and KNPE 346 and a (cumulative GPA of 2.70 or higher) and permission of the course coordinator and the Undergraduate Coordinator in the School of Kinesiology and Health Studies.
Offering Faculty: Faculty of Arts and Science

KNPE 449  Advanced Protein Metabolism  Units: 3.00
This course will provide an understanding of the factors that regulate the size of human skeletal muscle. Emphasis will be on how nutrition and exercise affect skeletal muscle growth/loss and insight into the use of isotopic labeling and other contemporary laboratory-based techniques used to study human skeletal muscle protein turnover.
NOTE Nutrition software package: estimated cost $75.
LEARNING HOURS 120 (36S;84P).
Requirements: Prerequisite Level 4 or above and registration in the KINE Specialization Plan. Exclusion KNPE 493 (Topic Title: Advanced Protein Metabolism - Winter 2020; Winter 2021).
Offering Faculty: Faculty of Arts and Science

KNPE 450  Ergonomics  Units: 3.00
This is an interdisciplinary lecture/seminar course designed to provide a comprehensive overview of ergonomics emphasizing applications to product design and prevention of musculoskeletal injuries. The focus includes anthropometry, workplace design, and biomechanical and other human factors. Ergonomic assessment methodologies will be used to assess design features and possible musculoskeletal problems.
LEARNING HOURS 108 (36L;72P).
Requirements: Prerequisite Level 4 or above and registration in a (HLTH, KINE or PHED Plan) and (ANAT 101 or ANAT 315) and (KNPE 254 or 6.0 units in PHYS at the 100-level). Exclusion MECH 495; PT 419; RHBS 428.
Course Equivalencies: KINE450, KNPE450, PHED450
Offering Faculty: Faculty of Arts and Science

KNPE 454  Applications in Biomechanics  Units: 3.00
This advanced course will present the general biomechanical techniques used in clinical evaluation. This will be followed by assessment techniques, how assessment is done, and how the results of assessment can be used to evaluate performance and the effectiveness of treatment.
LEARNING HOURS 132 (18L;18S;12Lb;84P).
Requirements: Prerequisite Level 3 or above and registration in a (KINE or PHED Specialization Plan) and KNPE 254.
Course Equivalencies: KINE454, KNPE454, PHED454
Offering Faculty: Faculty of Arts and Science

KNPE 455  Advanced Physical Activity and Health  Units: 3.00
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.
NOTE This course will normally be offered in academic years starting with an odd number (eg., 2013-2014).
LEARNING HOURS 120 (36L;84P).
Requirements: Prerequisite Level 3 or above and registration in a (KINE or PHED Specialization Plan) and KNPE 125 and KNPE 225 and KNPE 227 and KNPE 255. Note Priority enrolment will be given to KINE students.
Offering Faculty: Faculty of Arts and Science
KNPE 456  Survey of Research and Literature in Kinesiology and Physical Education  Units: 3.00
Independent study involving a critical review of the literature on an approved topic of specialization in health enhancement, disease prevention and human performance. Students must arrange for a faculty adviser approved by the School of Kinesiology and Health Studies.
LEARNING HOURS 126 (6I;120P).
Requirements: Prerequisite Level 4 or above and registration in a (KINE or PHED Specialization Plan) and permission of the supervisor and the Undergraduate Coordinator.
Course Equivalencies: KNPE456, PHED456
Offering Faculty: Faculty of Arts and Science

KNPE 459  Clinical Exercise Physiology  Units: 3.00
An in-depth coverage of principles of health screening, exercise testing and exercise prescription for individuals with cardiovascular, metabolic and pulmonary diseases. An emphasis is placed on understanding disease pathophysiology and how this interacts with the acute response to exercise and the adaptation to training. NOTE This course will normally be offered in academic years starting with an even number (e.g., 2012-2013).
LEARNING HOURS 120 (36L;84P).
Requirements: Prerequisite Level 3 or above and registration in a (KINE or PHED Specialization Plan) and KNPE 125 and KNPE 225 and KNPE 227. Recommended KNPE 255. Note Priority enrolment will be given to KINE students.
Course Equivalencies: KINE459, KNPE459, PHED459
Offering Faculty: Faculty of Arts and Science

KNPE 463  Community-Based Physical Activity Promotion  Units: 6.00
Program planning and evaluation for the promotion of physical activity in the community, workplace, school, and health care settings. Using a combination of lecture, group discussions, and a community-based placement, students will acquire the skills and understand the philosophies used in promoting physical activity involvement in the community.
LEARNING HOURS 244 (72S;72Pc;100P).
Requirements: Prerequisite Level 4 or above and registration in a (KINE or PHED Specialization Plan) and KNPE 265 and a (minimum GPA of 2.90 in all KNPE courses). Recommended HLTH 315.
Offering Faculty: Faculty of Arts and Science

KNPE 465  Sport Participation and Performance  Units: 3.00
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.
LEARNING HOURS 120 (36S;84P).
Requirements: Prerequisite Level 4 or above and registration in a (KINE or PHED Specialization Plan) and a minimum grade of a B in KNPE 265. Recommended KNPE 237.
Course Equivalencies: KINE465, KNPE465, PHED465
Offering Faculty: Faculty of Arts and Science

KNPE 473  Sport and Culture  Units: 3.00
This course draws on critical theories to look at sport in Western cultures. It examines sport’s contribution to systems of gender, race, class, sexuality and ability. Topics include sport’s relationship to nationalism, media, commodification, globalization, and the environment.
LEARNING HOURS 120 (36S;84P).
Requirements: Prerequisite Level 4 or above and registration in a (KINE or PHED Specialization Plan).
Course Equivalencies: KINE473, KNPE473, PHED473
Offering Faculty: Faculty of Arts and Science

KNPE 491  Special Project in Kinesiology and Physical Education  Units: 3.00
This is an independent project in an area of specialization in health enhancement, disease prevention and human performance. Students must arrange for a faculty advisor approved by the School of Kinesiology and Health Studies to oversee their project.
LEARNING HOURS 126 (6I;120P).
Requirements: Prerequisite Level 4 or above and registration in a (KINE or PHED Specialization Plan) and permission of the supervisor and the Undergraduate Coordinator.
Course Equivalencies: KNPE491, PHED491
Offering Faculty: Faculty of Arts and Science

KNPE 493  Special Topics in Kinesiology and Physical Education  Units: 3.00
Intensive coverage of advanced topics that are current and/or of special interest in Kinesiology.
NOTE Offered periodically by visiting professors or members of faculty. Students should check with the School regarding availability of this course.
LEARNING HOURS 120 (36L;84P).
Requirements: Prerequisite Level 4 or above and registration in a (KINE or PHED Specialization Plan).
Course Equivalencies: KNPE493, PHED493
Offering Faculty: Faculty of Arts and Science
KNPE 595  Hons Thesis Kine & Phed  Units: 6.00
An independent study involving a research proposal and project on an approved topic in the area of health enhancement, disease prevention, and human performance. The research proposal will be completed in the Fall Term and research project in the Winter Term. Students must arrange for a full-time faculty advisor in the School of Kinesiology and Health Studies.
LEARNING HOURS 252 (12+240P).
Requirements: Prerequisite Level 4 or above and registration in a (KINE or PHED Specialization Plan) and a (cumulative GPA of 3.50 or higher) and permission of the course coordinator and the Undergraduate Coordinator in the School of Kinesiology and Health Studies. Recommended HLTH 252.
Offering Faculty: Faculty of Arts and Science

KHS 830  Health Promotion Research Sem.  Units: 3.00
This colloquium-style course provides students with a foundation in various methods of practice-based discovery, primarily quantitative, used by health promotion researchers. Topics include ethics, study design, sampling, measurement, evaluation, and data analysis. The course is tailored each semester according to students' thesis needs. Offered jointly with EPID-830*.
Offering Faculty: Faculty of Arts and Science

KHS 849  Motion Analysis  Units: 3.00
This course covers the application, instrumentaion and techniques of human motion analysis. Topics include 2D and 3D kinematics, force measurement, link segment analysis and the application of these techniques to able-bodied and disabled populations. To integrate the material, the course combines readings, lectures, laboratories and projects. (Offered jointly with RHBS-872*/RHBS-972*).
Offering Faculty: Faculty of Arts and Science

KHS 850  Physical Tests & Measurement  Units: 3.00
An advanced theoretical and practical course covering the application, instrumentaion and techniques of kinetics, kinematics, kinesiological electromyography, and anthropometric analysis in the study of normal and abnormal human movement. (Offered jointly with RHBS-837*).
Offering Faculty: Faculty of Arts and Science

KHS 851  Biomechanics Of Human Movement  Units: 3.00
A seminar course on the biomechanics of human motion in rehabilitation, sport, and ergonomics. Topics include measurement and analysis techniques, modeling, and the study of selected applications of the biomechanics of human movement of able-bodied and disabled populations. Course offered in odd years jointly with RHBS-871*.
Offering Faculty: Faculty of Arts and Science

KHS 859  Biomechanics Of Human Movement  Units: 3.00
In this seminar course students will apply theoretical concepts from the social and behavioural sciences, health education, and health communication to the planning, implementation, and evaluation of community-based physical activity programs. Interventions and programs for group, organization (e.g. schools), and community settings that target people, policies and the environment, will be emphasized. Offered jointly with EPID-862*.
Offering Faculty: Faculty of Arts and Science

KHS 860  Critical Health Promotion  Units: 3.00
This course will provide students with the opportunity to examine the genealogy of health, health promotion, and population health over the past half-century and to apply critical thinking skill within current theoretical and methodological applications in health promotion studies. (offered jointly with HLTH-493).
Offering Faculty: School of Graduate Studies

KHS 862  Community-Based Programming  Units: 3.00
A lecture-seminar course designed to provide comprehensive coverage of sport psychology. The course examines the development of the field, general theories and concepts, forms of measurement, and issues in the current literature.
Offering Faculty: Faculty of Arts and Science

KHS 864  Adv. Top. In Sports Psychology  Units: 3.00
This course covers the application, instrumentation and techniques of human motion analysis. Topics include ethics, study design, sampling, measurement, evaluation, and data analysis. The course is tailored each semester according to students’ thesis needs. Offered jointly with EPID-830*.
Offering Faculty: Faculty of Arts and Science

KHS 865  Soc. Psych Of Sport & Exercise  Units: 3.00
This course explores key theoretical approaches to the meaning, mood, and matter of bodies in the contemporary world. Through a range of topics that may include food, cancer, toxins, sport, fitness, reproduction, biometrics, and pain, we will attend to both the vitality of bodies and their subjection within enduring structures of power. Readings will emphasize anti-capitalist, critical race, postcolonial, Indigenous, feminist, queer, and trans perspectives.
Offering Faculty: Faculty of Arts and Science

KHS 867  Gait And Posture  Units: 3.00
Offering Faculty: Faculty of Arts and Science

KHS 869  Bodies and Social Theory  Units: 3.00
This course will provide students with the opportunity to examine the genealogy of health, health promotion, and population health over the past half-century and to apply critical thinking skill within current theoretical and methodological applications in health promotion studies. (offered jointly with HLTH-493).
Offering Faculty: Faculty of Arts and Science

KHS 870  Health Behaviour Change  Units: 3.00
Offering Faculty: Faculty of Arts and Science

KHS 871  Critical Health Promotion  Units: 3.00
This course will provide students with the opportunity to examine the genealogy of health, health promotion, and population health over the past half-century and to apply critical thinking skill within current theoretical and methodological applications in health promotion studies. (offered jointly with HLTH-493).
Offering Faculty: School of Graduate Studies

KHS 872  Health Behaviour Change  Units: 3.00
Introduction to theories, measures, and statistical methodologies typically used in health and exercise psychology research. Students will learn to critically evaluate and apply these key principles.
Offering Faculty: Faculty of Arts and Science
KHS 873 Critical Methodologies: Politics of Knowledge Units: 3.00
This seminar explores the politics of knowledge in research that aims at social change. Taking a historical approach, it draws on feminism, Indigenous Studies, post-colonialism, and other critical perspectives to develop a frame for post-positivist, qualitative research. PREREQUISITE: KNPE-367 or equivalent.
Offering Faculty: Faculty of Arts and Science

KHS 875 Qualitative Methods Units: 3.00
This course is an introduction to graduate level qualitative methods. The goal of the course is to provide a foundation for graduate students to collect and analyze qualitative data using methods such as interviews, focus groups, and observation. EXCLUSION: RHBS-832*.
Offering Faculty: Faculty of Arts and Science

KHS 884 Muscle Physiology Units: 3.00
A lecture-seminar course in which muscular, metabolic, and endocrine adaptations to exercise will be discussed in detail focusing on the effects of acute exercise and physical conditioning on the major energy producing systems (carbohydrate and lipid metabolism). Summer 2013. PREREQUISITE: KNPE-427 or equivalent.
Requirements: Prerequisite for KHS 884
Offering Faculty: Faculty of Arts and Science

KHS 885 Oxygen Transport In Exercise Units: 3.00
A lecture-seminar course examining control mechanisms and limiting factors of the oxygen transport systems' support of exercising muscle metabolism. Topics covered will include the mechanisms involved in regulation of muscle oxygen delivery, conflicting demands of blood pressure vs. muscle oxygen delivery vs. core temperature regulation, limitations to peak aerobic capacity. The impact of training on some of the above topics will also be explored.
Offering Faculty: Faculty of Arts and Science

KHS 886 Clinical Exercise Science Units: 3.00
A lecture-seminar course in which metabolic, muscular and endocrine adaptations to exercise will be discussed in detail. Particular emphasis will be placed on the effects of acute exercise and physical conditioning on the major energy producing systems (carbohydrate and lipid metabolism).
Requirements: Prerequisite for KHS 884
Offering Faculty: Faculty of Arts and Science

KHS 887 Special Topics I Units: 3.00
A focus on specific issues in one of the three fields of study offered which include Applied Exercise Science; Physical Activity Epidemiology and Health Promotion; and Psychology and Socio-Cultural Studies of Physical Activity. May be offered by current faculty or visiting scholars.
Offering Faculty: Faculty of Arts and Science

KHS 891 Statistics Units: 3.00
A seminar course which will acquaint the students with the concepts and principles of quantitative statistical analysis including parametric and non-parametric methods. Students will present various topics throughout the course and critically evaluate research in their area of study.
Offering Faculty: Faculty of Arts and Science

KHS 892 Special Topics II Units: 3.00
A focus on specific issues in one of the three fields of study offered which include Applied Exercise Science; Physical Activity Epidemiology and Health Promotion; and Psychology and Socio-Cultural Studies of Physical Activity. May be offered by current faculty or visiting scholars.
Offering Faculty: Faculty of Arts and Science

KHS 893 Physical Activity Epidemiology Units: 3.00
A lecture-seminar course that investigates the epidemiological relationships among physical activity, fitness and health. The course also examines the historical development of the field, study designs and analytical frameworks. A particular emphasis is placed on issues in the current literature. Lectures: 1 x 3 hours
Offering Faculty: Faculty of Arts and Science

KHS 894 App Multivariate Data Analysis Units: 3.00
The course gives students an introduction to multivariate and multilevel statistical modeling. After a thorough review of multiple regression analysis including interactions, non-linear relationships, and mediation, students learn the basics of analyzing data with a nested structure, such as individuals within groups or observations within individuals. Lectures 1 x 3 hours
Offering Faculty: Faculty of Arts and Science

KHS 895 Individual Study Units: 3.00
A study topic in a subject area related to biomechanics, exercise physiology, social psychology of sport and exercise and/or sociology of sport, selected by the student under the guidance of a faculty member. Normally this course will take the form of a closely supervised reading course in an area of the instructor's expertise. One term only.
Offering Faculty: Faculty of Arts and Science

KHS 896 Special Topics III Units: 3.00
This seminar course may cover topic areas including health behaviour change; sport psychology; exercise psychology; food studies; gender, sexuality and sport; neighbourhoods and health; globalization and health; social movements in health; HIV prevention; community-based participatory research; health, risk and the body. Offered by various graduate faculty or visiting scholars. One term only. Lectures 1 x 3 hours.
Offering Faculty: Faculty of Arts and Science
KHS 897  Individual Study  Units: 3.00  
Offering Faculty: Faculty of Arts and Science

KHS 898  Individual Project  Units: 3.00  
: The student will work under the guidance of a project supervisor to complete a project. The completed project will be evaluated by the project supervisor and at least one other faculty member. One term only.
Offering Faculty: Faculty of Arts and Science

KHS 899  Master's Thesis Research  Units: 6.00  
Offering Faculty: Faculty of Arts and Science

KHS 999  Ph D Thesis Research  Units: 6.00  
Offering Faculty: Faculty of Arts and Science