Graduate Program Handbook

Revised: January 2017

Thesis—A dissertation advancing an original point of view as a result of research…
Finding Help

ADMINISTRATION

Associate Director, Academics
Paul Kennedy
604-822-9204
paul.kennedy@ubc.ca
Osborne, Unit I, Rm 215

Graduate Program Assistant
Helen Luk
604-822-4641
kin.gradsec@ubc.ca
MGYM 210

TECHNICAL/FACILITY STAFF

Systems Analyst
Cliff Storlund
604-822-8991
cliff.storlund@ubc.ca
MGYM 224A

The School’s graduate program is governed by the UBC Graduate Studies and Postdoctoral Studies (G+PS). The G+PS Policy and Procedures Manual may be found at http://www.grad.ubc.ca. The School’s policies and procedures are harmonized within those articulated by G+PS and are found at http://www.hkin.educ.ubc.ca. Together, these policies form the framework in which graduate studies must be completed.

KIN Graduate Committee

COMMITTEE MEMBERSHIP

<table>
<thead>
<tr>
<th>Health Sciences</th>
<th>K Khan</th>
<th>Social Sciences</th>
<th>A Bundon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Sciences</td>
<td>E Puterman</td>
<td>Natural Sciences</td>
<td>J.S. Blouin</td>
</tr>
<tr>
<td>PE &amp; Coaching Science</td>
<td>M Gallo</td>
<td>Natural Sciences</td>
<td>T Lam</td>
</tr>
</tbody>
</table>

The Graduate Committee governs and is charged with all aspects of the Graduate Program. It also deals with student appeals for changes in programs not normally facilitated by G+PS’ policies and procedures. Concerns regarding the program, interaction with faculty, or other students, should be directed to the Committee whose goal is to ensure the best possible educational outcome.

Academic Culture

The School provides a multi-disciplinary environment for research spanning a broad range of topics from the humanities to theoretical and applied social science, and to basic and applied physical science. Common links are an interest in movement as it relates to health, exercise and sport in both historical and contemporary contexts. To bring cohesion to such a diverse range of interests, the School facilitates a series of seminars with some of the top researchers in the field. These seminars are integral, increase exposure to different types of research, and help develop academic skills.

Program Duration (general timelines for degree completion)

From the official date of admission, **masters’ students have five (5) years**, and **PhD students have six (6) years**, to complete degree requirements.

**MKin students** typically undertake coursework during the first three terms and spend the final term developing and presenting a major paper.

**MA/MSc students** spend the first two terms taking courses and developing a research theme. The final terms are spent proposing a research topic, collecting data and presenting a thesis defence.
**PhD students** typically take no more than four years to develop and complete a research program. Comprehensive exams take place prior to the end of the 2\textsuperscript{nd} year, while proposing a thesis topic and being admitted to candidacy occur before the end of the 3\textsuperscript{rd} year. Defending the thesis usually happens at the end of the fourth year.

### Degree Requirements

<table>
<thead>
<tr>
<th>Degree Requirements</th>
<th>Master of Arts</th>
<th>Master of Science</th>
<th>Master of Kinesiology</th>
<th>PhD</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Thesis/Major Paper</strong></td>
<td>THESIS (12 Credits)</td>
<td>GRADUATING PAPER (3 Credits)</td>
<td>T H E S I S</td>
<td></td>
</tr>
<tr>
<td><strong>500/600 Level Course Work</strong></td>
<td>A minimum of 9 course credits related to the student's program of study determined in consultation with Thesis Supervisor</td>
<td>A minimum of 18 course credits related to the student's program of study determined in consultation with Supervisor</td>
<td>O p t i o n a l</td>
<td></td>
</tr>
<tr>
<td><strong>300/400 Level Course Work</strong></td>
<td>A maximum of 6 course credits related to the student's program of study may be taken at the senior undergraduate (300/400) level for application to MA, MSc, and MHK degrees</td>
<td>RESEARCH METHODS (3 Credits) (or approved alternative)</td>
<td>*Comprehensive Exam (see below)</td>
<td></td>
</tr>
<tr>
<td><strong>REQUIRED Course Work</strong></td>
<td></td>
<td></td>
<td><strong>Admittance to Candidacy (see below)</strong></td>
<td></td>
</tr>
<tr>
<td>KIN 570</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>RECOMMENDED Course Work</strong></td>
<td>An appropriate quantitative or qualitative analysis course – e.g. EPSE 592</td>
<td></td>
<td>Optional</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL Credits</strong></td>
<td></td>
<td></td>
<td>N/A</td>
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<td>30</td>
<td></td>
</tr>
</tbody>
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*COMPREHENSIVE EXAM:

HTTP://WWW.GRAD.UBC.CA/FACULTY-STAFF/POLICIES-PROCEDURES/COMPREHENSIVE-EXAMINATION

- required upon completion of course work, and/or readings; and **scheduled prior to the second anniversary of the student's start date.**
- normally comprises a two-part exam, which the student's committee will establish and judge. Content will be relevant to the student's general area of study and will include questions covering theory, application, and methodology.
- supervisor to fill in the School's comprehensive evaluation form upon completion of the comprehensives. ([Download form - PDF](#))
- successful completion is a prerequisite for the presentation and defense of the formal PhD thesis proposal.

**ADMITTANCE TO CANDIDACY**

- normally occurs **within three years of program start date**, upon successful completion of all required course work/readings, the Comprehensive Exam, and upon presentation and approval of the thesis proposal.

**PROGRAM PLANNING**

In September the student and Thesis Supervisor meet to review and set goals for the forthcoming academic year. These goals are then recorded on a Program
Outline Form and returned to the Graduate Program Assistant. Unrecorded program changes may result in a delay of graduation.

Registration

CONTINUOUS REGISTRATION
Required throughout all terms (Fall, Winter, Spring/Summer), until graduation.

Failure to pay fees by appropriate deadlines results in automatic blocking of course registration, recording of grades, and graduation until fees (with interest) are paid in full.

COURSE REGISTRATION
Courses may be registered on-line, with the following exceptions:

**KIN 530 and KIN 598 Contracts**
- arrange study with supervisor
- download contract [http://kin.educ.ubc.ca/students/graduate/current-students/resources/](http://kin.educ.ubc.ca/students/graduate/current-students/resources/)
- obtain appropriate signatures (thesis supervisor and Associate Director)
- return contract to the Graduate Program Assistant for registration

**Undergraduate KIN courses**
- requires permission from the instructor. Please ask Graduate Program Assistant who will confirm your registration with the Undergraduate advisor (if space is available).

**Non-KIN courses**
- complete Change in Registration (add/drop form available on-line)
- obtain authorization from course instructor
- return to Graduate Program Assistant for department approval. (form will be forwarded to the Faculty of Graduate Studies for processing).

COURSE WITHDRAWAL
Deadlines are strictly followed — see the following website for deadlines: [http://www.calendar.ubc.ca/vancouver/index.cfm?page=deadlines](http://www.calendar.ubc.ca/vancouver/index.cfm?page=deadlines)

Grades

**MINIMUM GRADES**
- Master’s students - 60% (C)
- PhD students - 68% (B-)

**Minimum Grades:** Courses with lower grades may be repeated for higher standing”. Remedial action MUST be taken when students have grades below 60% for Master’s and 68% for PhD. The remedial action may be either repeat the course or get 74% OR take another course in lieu (if it is not a required course). The 3rd option would be “required to withdraw”. Repeat courses will have both marks appear on the transcript. The higher mark will be used to determine promotion and in any decision to admit/withdraw a student from a program. Averages calculated for other purposes include both marks.

**PASS/FAIL GRADES**
- G+PS regulations state:
  - Failed courses do not receive credit
  - No more than 6 credits of Pass standing (60-67%) in course work may be credited toward a Masters program. For all other courses, a minimum of 68% must be obtained.
  - Students failing a course require departmental recommendation to continue
  - Students failing more than one course normally will be required to withdraw
STANDING DEFERRED
A ‘deferred’ standing is appropriate if medical or personal problems (of a very unusual nature) make it impossible to complete the course requirements on time, however the requirements can be completed with an extension. In this case, the student's graduate program advisor or designate should send a memo to the Dean of Graduate Studies as early as possible recommending a ‘deferred’ standing and the reasons for the recommendation. The instructor should note the request for a DEF standing on the grade sheet. The ‘deferred’ standing will then be entered in the student's record and transcript.

Audit (AUD) is granted to students who have been officially approved as having audit status. These students are expected to complete all course requirements except the final exam, and may be given Fail (F) standing if their performance is not satisfactory. See Classification of Students in Calendar Chapter 2.

Standing Deferred (SD) may be granted by the Dean of the Faculty of Grad Studies in which the student is enrolled when a student has a valid reason for not completing course requirements as scheduled and does not qualify for Aegrotat standing (see Academic Concession). Students granted an ‘SD’ in Winter Session courses must complete all outstanding course requirements by August 23 following. Students granted an ‘SD’ in Summer Session courses must complete all outstanding work by December 25 following. Students granted ‘SD’ are responsible for making satisfactory arrangements with their instructors for completion of outstanding course requirements. If a student fails to complete these requirements by the dates specified, the ‘SD’ will be replaced with a grade or standing reflecting requirements completed in the course. Students unable to meet the specified deadlines because of further medical, emotional or other difficulties must make an additional application for Academic Concession no later than August 31 for Winter Session courses or December 31 for Summer Session courses following the original deferral. See Deferred and Supplemental Examinations.

UNSATISFACTORY PROGRESS
Students may be required to withdraw if academic or research progress is unsatisfactory. Students will be informed in writing by the Associate Director of inadequate progress and given an opportunity to discuss the matter with the supervisory committee prior to a withdrawal recommendation being made to FoGS.

The School may choose to establish additional criteria for measuring student progress. When this occurs, both the student and the Dean of Graduate Studies will be informed in writing of any additional requirements for re-instatement.

**Thesis - Definition**

*A dissertation advancing an original point of view as a result of research.....*

**Committee Structure**

Thesis Supervisor is responsible for ensuring all committee members are current members of G+PS.

1. Committee Membership normally comprises three faculty members:
   - Thesis Supervisor
   - One other member from KIN grad faculty
   - Additional faculty members from other departments *as deemed appropriate (these may include non-faculty - subject to KIN and G+PS’ approval, see “Committee Members Who Are Not....”)*
2. Constituency of all Thesis Committees is subject to review by the KIN Graduate Committee.

3. Thesis Supervisor is responsible to the KIN Associate Director (Grad Programs) for determining composition of supervisory committee (subject to G+PS' regulations).

COMMITTEE MEMBERS WHO ARE NOT FULL-TIME FACULTY
Although each thesis committee must be chaired by a full member of G+PS, the committee itself may include individuals who are not full members. In particular honorary or adjunct faculty, and off-campus professionals who are academically qualified to advise graduate students may be members of the committee if approved by the Associate Director (Grad Programs) and/or Dean of Graduate Studies.

- prior approval from the Associate Director (KIN Grad Programs) is required. A memo from the thesis supervisor, with justification and curriculum vitae of the nominated expert(s) must be included.

When a faculty member approaching retirement accepts an assignment as Thesis Supervisor, the faculty member and the School’s Associate Director of Graduate Programs must ensure provision is made for an alternate supervisor should the need arise.

Proposing/Defending

INSTRUCTIONS
Official G+PS “Instructions for the Preparation of Graduate Theses” is available at the above website.

PROPOSAL

<table>
<thead>
<tr>
<th>MA/MSc Students</th>
<th>PhD Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>course work: completed 15 credits including KIN 570 (or approved equivalent).</td>
<td>course work: n/a</td>
</tr>
<tr>
<td>meets with thesis supervisor and committee members to review and have Thesis Proposal formally approved for presentation</td>
<td></td>
</tr>
<tr>
<td>thesis committee sanctions length and content of proposal which normally includes the following information:</td>
<td></td>
</tr>
<tr>
<td>1. outline of problem, including hypotheses and study’s basic theoretical rationale,</td>
<td></td>
</tr>
<tr>
<td>2. limitations of study,</td>
<td></td>
</tr>
<tr>
<td>3. methods and procedures.</td>
<td></td>
</tr>
<tr>
<td>two weeks prior to proposal, student submits to Graduate Program Assistant:</td>
<td></td>
</tr>
<tr>
<td>1. names of Committee members,</td>
<td></td>
</tr>
<tr>
<td>2. electronic copy of abstract.</td>
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</tbody>
</table>
The student proposal examination takes place in an oral defence format. The defence is open to members of the School and others who wish to attend. Committee members record approval and comments on ‘Thesis Proposal Report’ form and return form to Graduate Program Assistant.

DEFENCE

**MA/MSc Students**

- supervisor requests member of Graduate Committee to ‘Chair’ defence,
- two weeks prior to defence student presents final thesis (hard copy) to all committee members,
- two weeks prior to defence, student submits electronic copy of abstract and PDF or Word document copy of thesis to Graduate Program Assistant
  
  kin.gradsec@ubc.ca

**Note:** Revisions no longer allowed once thesis is submitted.

- Quorum, consisting of Thesis Supervisor and one other thesis committee member, must be present for Thesis Exam to begin. Exam is delayed/postponed if quorum not reached.

- Chair conducts Examination accordingly:
  a) announce meeting has been called for the examination of the student’s thesis,
  b) ask student to present a 20-30 minute synopsis of the thesis; student may speak from notes and use audio-visual aids, but should not read the synopsis,
  c) invite questions from Committee members and audience,
  d) call for further questions from Committee members,
  e) request withdrawal of visitors,
  f) call for discussion of Examination and polls each Committee members:
    I. approve thesis as submitted and provide a Pass/Fail mark
    II. approve thesis with specified revisions and provide a Pass/Fail mark
    III. approve with conditions for a re-examination;
    IV. reject thesis
  h) when deliberations are concluded, Chair, in the presence of the Committee, informs student of decision.

The Chair records the mark on the ‘Master’s Thesis Defense Report’ if thesis is approved under I) or II) above.
**PHD STUDENTS**


<table>
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<tr>
<th>Deadline Event</th>
<th>Activity</th>
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</table>
| 2 months prior to submission of the completed thesis to Graduate Studies (or, approximately five months before intended exam date) | - Thesis supervisor submits Appointment of External Examiner form to Faculty of Graduate Studies [http://www.grad.ubc.ca/forms/external-examiner-form](http://www.grad.ubc.ca/forms/external-examiner-form)  
- Nominate 2-3 possible External Examiners                                      |
| 6-7 weeks prior to intended exam date                                         | - Submit 2 Cerlox bound copies of the Thesis to Graduate Studies together with Graduate Program Approval of Doctoral Dissertation for External Examination form: [http://www.grad.ubc.ca/forms/graduate-program-approval-form](http://www.grad.ubc.ca/forms/graduate-program-approval-form) |
| 4 weeks prior to exam date                                                    | - Schedule exam date and room booking with Faculty of Graduate Studies [http://www.grad.ubc.ca/current-students/final-doctoral-exam/scheduling-final-oral-defence](http://www.grad.ubc.ca/current-students/final-doctoral-exam/scheduling-final-oral-defence)  
- Student submits electronically the Examination Programme to [graduate.doctoral@ubc.ca](mailto:graduate.doctoral@ubc.ca), or on disk (PC formatted) to Graduate Studies office [http://www.grad.ubc.ca/forms/examination-programme](http://www.grad.ubc.ca/forms/examination-programme) |

**SUBMISSION DEADLINES**

See [http://www.grad.ubc.ca/deadlines](http://www.grad.ubc.ca/deadlines) for deadline dates for thesis submission to the School of Kinesiology and to FoGS.

**BINDING**

If bound copies of the thesis are requested by committee members, students can obtain this service from Copiesmart:


103 - 5728 University Blvd.

Vancouver BC Canada V6T 1K6

email: copiesmart@shaw.ca
Graduating Paper – MKin

MKin students are required to pass an oral exam of their graduating paper, which is open to the university community.

- coursework: normally has successfully completed 21 credits including KIN 570 (or approved equivalent). Compliance with this expectation is the shared responsibility of the student and their faculty supervisor.

- meet with supervisor to discuss paper and receive approval for presentation.

- graduating paper should:
  a. be a scholarly work that deals in depth with a relevant aspect of human kinetics; cannot be a previously submitted essay (though such an essay may form the basis for the graduating paper).
  b. be organized rigorously in a form considered suitable by the profession or discipline.
  c. demonstrate a command of the acquired knowledge and be able to clearly communicate that knowledge to others in the profession or discipline.

- supervisor, in consultation with student, arranges for an additional KIN faculty member to act as a second reader.

- one week prior to presentation student:
  a. submits electronic copy of both abstract and graduating paper to Graduate Program Assistant kin.gradsec@ubc.ca
  b. submits electronic or hard copy of graduating paper to supervisor and second reader

Upon successful completion of the Oral Examination:
- supervisor provides written indication that paper conforms to required standards and submits grade to Graduate Program Assistant
- student provides one electronic copy to KIN main office, plus Cerlox bound copies to supervisor and second reader if requested.

Students are encouraged to submit their paper for possible publication in an appropriate scholarly or professional journal.

Research Involving Human Subjects

Students whose research falls within the UBC “Definition of Research Involving Human Subjects” must receive prior approval from the appropriate Screening Committee for Research Involving Human Subjects. Research Services (827-5112) or shirley.thompson@ors.ubc.ca may be consulted for further details. Approval may be required for a Thesis, Graduating Paper, and/or Directed Studies.

Further details may be found in the Faculty Handbook; or consult your thesis supervisor. Forms may be obtained from your thesis supervisor, or from the UBC Office of Research Services web site www.orsil.ubc.ca.
Publishing Policies – Collaborative Research

Students are encouraged to discuss possible joint authorship arrangements with their supervisors at the outset of their program, and should consider publishing results from their thesis research in academic literature. As thesis research is usually a collaborative effort, and often supported by a supervisor’s research grant, some form of joint authorship is considered appropriate. The following are general guidelines:

1. Publications or presentations arising directly from the thesis – authorship is established by mutual agreement:
   - student may claim first authorship if responsible for first draft,
   - faculty will be listed as first author by previous agreement or by student request,
   - supervisor may claim first authorship if significant amount of additional research or analysis is required to produce publishable results, or if student does not contribute to the writing of the paper,
   - students expecting to claim sole authorship on publications based on all or part of their research, should have advance agreement with the supervisor;

2. Authorship of a report to a granting agency lies with the faculty grant holder. Usually students working on such grants have an established status as per original grant submission and are acknowledged as such in any reports;

3. Students employed as research assistants for data collection/analysis should not expect joint authorship unless they have made significant contributions to the design of the study and/or authorship of the publication arising from the work.

Faculty Specializations

PHYSICAL EDUCATION & COACHING SCIENCE

Gallo, M., PhD Copp Building, Rm 3209 604-822-5084
maria.gallo@ubc.ca
Coaching science; the elite-level pre-pubertal athlete; growth and motor development.

NATURAL SCIENCES

Blouin JS, PhD Rm 3506, Copp Building, 604-827-3372
jean-sebastien.blouin@ubc.ca
Neurophysiology of the spine, Head-neck control, Whiplash injuries, Postural control, Vestibulospinal and reticulospinal pathways.

Boushel R, PhD 210D, War Memorial Gym, 604-822-9050
robert.boushel@ubc.ca
cardiovascular and muscle metabolism

Bredin S.S.D, PhD Unit I, Osborne Centre, Rm 212, 604-822-8257
shannon.bredin@ubc.ca
Human motor behaviour (motor learning, motor development); physical activity and health across the lifespan (includes research in: early childhood programming, school-based interventions, community-based interventions, health-related knowledge and health literacy, health-related physical fitness; pregnancy, postpartum, and the early years of motherhood; telehealth; exergaming); human performance and long-term athlete development.

Carpenter MG, PhD Unit I, Osborne Centre, Rm 213, 604-822-8614
mark.carpenter@ubc.ca
Physiological and psychological origins of balance disorders and the efficacy of physical activity intervention programs to improve balance performance.
Chua R, PhD War Memorial Gym, Rm 212, 604-822-1624  
romeo.chua@ubc.ca  
Human perception and action, visual-motor control, sensory-motor integration, perceptual-motor compatibility, coordination dynamics

Franks IM, PhD Copp Building Room 4602, 2146 Health Sciences Mall, 604-822-6891  
ian.franks@ubc.ca  
Behavioural Research: cognitive aspects of movement control and learning.

Hodges NJ. PhD War Memorial Gym, Rm 300, 604-822-5895  
nicola.hodges@ubc.ca  
Human motor control and learning. Motor expertise and developmental pathways. Learning and coordination. Instructions, feedback and observational learning

Inglis JT, PhD War Memorial Gym, Rm 218, 604-822-1626  
tim.inglis@ubc.ca  
Vestibular and somatosensory control of standing balance; microneurographic recording of sensory axons; human kinaesthesia; physical therapy.

Khan K, PhD 320-5950 University Blvd., 604-505-3292  
karim.khan@ubc.ca  
Bone health with a particular emphasis on interventions in childhood and in seniors; research in seniors concerns fall prevention in high-risk groups, such as those with osteoporosis.

Koehle, Michael PhD Medical Sciences Building – Block C, 604 822-9331  
michael.koehle@ubc.ca  
Exercise and environmental physiology from basic mechanistic research to more clinical field studies in remote environments

Kramer J, PhD iCORD, 604-675-8876  
kramer@icord.org  
Focused on the use of advanced neuroimaging and quantitative sensory testing techniques, his current work aims to better understand changes in the central nervous system related to the development of neuropathic pain.

Lam T, PhD Osborne, Unit I, Rm 214, 604-827-3165  
tania.lam@ubc.ca  
Neural and sensory control of walking, gait rehabilitation, neurological injury and rehabilitation

McKenzie DC, PhD, MD Allan McGavin Sports Medicine Centre, 604-822-6755  
don.mckenzie@ubc.ca  
Applied physiology; sports medicine.

Sheel W, PhD Osborne Gym, Rm 208, 604-822-4459  
bill.sheel@ubc.ca  
Exercise Science: exercise physiology, respiratory physiology, athletic performance

Taunton JE, MD, Professor and Dipl Sports Med, Allan McGavin Sports Medicine Centre, 604-822-4122  
jack.taunton@ubc.ca  
Sports medicine: over-use injuries; etiology/treatment for stress fractures, exercise-induced anemia; endocrine aspects of exercise.

Warburton DER, PhD Unit II, Osborne Gym, 604-822-4603  
darren.warburton@ubc.ca  
Exercise Science: cardiovascular physiology, clinical exercise rehabilitation, exercise physiology, health status in high risk populations, fitness assessment

West Chris, PhD iCORD, 604-675-8809  
wesb@icord.org  
Cardiovascular Health; Exercise; Rehabilitation; Sport Cardiology
SOCIAL SCIENCES

Beauchamp MR, PhD War Memorial Gym, Rm 122, (604) 822 4864
mark.beauchamp@ubc.ca
Sport and Exercise Psychology, Health Psychology, Psychology of Group Dynamics, Role Perceptions, Transformational Leadership, Close Relationships.

Bundon A, PhD Auditorium Annex, Rm 156F, (604) 822 9168
andrea.bundon@ubc.ca
Paralympics, disability sport, athlete services, sport and social media, qualitative methods, digital (qualitative) methods.

Crocker PRE, PhD War Memorial Gym, Rm 220A, 604-822-5580
peter.crocker@ubc.ca
Sport & exercise psychology - stress, coping and emotion; physical self

Faulkner G, PhD Copp, Rm 4606, 604-822-2990
guy.faulkner@ubc.ca
Physical activity promotion in community and rehabilitation settings, and the relationship between physical activity and mental health in children and adults.

Hurd Clarke L, PhD Auditorium Annex, Rm 156C, 604-822-4281
laura.hurd.clarke@ubc.ca
Aging, Gender, and the Body Research: body image and aging; embodiment in later life; gender, health, and aging; and qualitative methods.

Norman M, PhD Auditorium Annex, Rm 156G, 604-827-5786
moss.norman@ubc.ca
Sociocultural studies.

Puterman E, PhD Medical Block C, rm 104A 604-822-2854
eli.puterman@ubc.ca
Health and Integrative Physiology Research

Sparks RE, PhD
robert.sparks@ubc.ca
Socio-Managerial Research: sport marketing and communication; advertising and consumer culture; media relations and journalism studies.

Van Wynsberghe P, PhD Neville Scarfe, Room 26, 2125 Main Mall, 604-822-3580
robert.vanwynsberghe@ubc.ca
Social sustainability, social movements, health promotion, impact of mega-events, case study and cross-case analysis, community service learning.

Vertinsky R, PhD War Memorial Gym, Rm 214, 604-822-6235
patricia.vertinsky@ubc.ca
Gender, sport and physical activity: history and sociology of physical culture, dance and exercise: social critique of science and embodiment, socio-cultural issues of health and physical activity.

Wilson B, PhD Auditorium Annex, Rm 156F, 604-822-3884
brian.wilson@ubc.ca
Cultural studies and sociology, with a focus on media studies, deviance, youth, social inequality, social movements, and qualitative methods.

Research Facilities

BIOMECHANICS LABORATORY

The main research focus in the Biomechanics Laboratory, located in the confines of War Memorial Gymnasium, is gait analysis including running, walking, and cycling in both normal and non-normal situations. The lab is equipped with a flush-mounted force platform, electromyographic recording system, a high-speed camera, and a Peak Performance 3D-video system. On-going work includes a project to investigate aspects of below-knee amputee gait, asymmetry in running mechanics, and
physiological and biomechanical correlates in cycling. The research work in the lab is focused on the analysis of gait including running, walking, and cycling in both normal and non-normal situations.

**CARDIOVASCULAR PHYSIOLOGY & REHABILITATION LABORATORY**

**DR. D. WARBURTON**

Located in the Osborne Centre (Gym E), the research focus of this laboratory is the evaluation of the effects of improvements in cardiovascular function on the health status and Quality of Life of individuals with spinal cord injury, patients with cardiovascular disease and/or patients who have recently undergone transplant surgery. This laboratory also deals with the examination of the cardiovascular function of elite athletes, children, adolescents, adults and older individuals. The facility houses a mass spectrometer, an application tonometer, a transcranial Doppler system, a stand-alone 2-D Doppler cardiac ultrasound instrument (Sonos 2500 Hewlett-Packard), a portable 2-D Doppler cardiac ultrasound instrument (SonoSite), a beat-by-beat blood pressure monitor (Finapres, Ohmeda), a near-infrared spectrophotometer (Niro 300, Hamamatsu), a cardiac stress test system (including a metabolic cart, and 12-lead electrocardiography), a eight patient telemetric electrocardiography (3-lead) system, several pulse oximeters, heart rate variability analysis equipment, ten Monark rehabilitation cycle ergometers, and three electronically braked cycle ergometers. This equipment allows for the complete evaluation of left ventricular function, oxygen kinetics, endothelial function, heart rate variability, and cerebral and skeletal muscle oxygenation and blood flow during resting and/or exercise conditions.

**COGNITIVE AND FUNCTIONAL LEARNING LABORATORY (‘LEARN’)**

**DR. S. BREDIN**

The Cognitive and Functional Learning (LEARN) Laboratory is located in Unit II of the Osborne Centre. The purpose of the LEARN Laboratory is to examine factors that influence human motor development, learning, and performance, with a specific focus on factors related to cognition, functional activities of healthy living, and the development of knowledge across the lifespan. The overall goal of this research is to develop evidence-based tools, strategies, and standards for the development of healthy physical behaviour and expert performance across the lifespan. The LEARN Laboratory is a member of the Physical Activity and Chronic Disease Prevention Unit.

**CULTURE, COMMUNITY AND HEALTH STUDIES LABORATORY**

**DRS. W. FRISBY, L. HURD CLARKE, P. VERTINSKY, R. SPARKS, R. VAN WYNSEBERGE & B. WILSON**

The Culture, Community and Health Studies Laboratory supports a variety of research focused on popular culture, physical activity, health promotion, and the mass media. Funded research projects currently underway include: youth-driven social movements, globalization, and community in the age of the internet; use of internet technologies in Canadian news production; tobacco marketing, anti-smoking programs, and youth smoking; community-based health promotion for women living in poverty; organizational dynamics of cross-sectoral partnerships; aging, gender, body image, and embodiment; aging and assistive technology.

**EXERCISE PHYSIOLOGY LABORATORY**

**DRS. D. MCKENZIE & J. TAUNTON**

The Exercise Physiology Laboratory, located in the Allan McGavin Sports Medicine Centre, provides facilities for graduate courses, clinical exercise testing and student and faculty research in clinical and applied science. Equipment includes several metabolic carts, a portable metabolic unit, pulmonary function apparatus, Cybex dynamometer, IStat blood analyzer, lactate analyzer, treadmill, cycle, kayak, and rowing ergometers.

**FALL PREVENTION RESEARCH LABORATORY**

**DR. K. KHAN**

This laboratory, affiliated with Human Kinetics and located in the Vancouver Hospital Research Pavilion (828 West 10th Avenue), houses state of the art instruments for measuring fall risk and bone health. Instruments includes the Physiological Profile Assessment (FallScreen) for measuring vision, proprioception, strength, sway and reaction time; bone densitometer and peripheral quantitative computerized tomography (pQCT) for measuring fracture risk, as well as standard instruments for measuring anthropometry and laptop computers and software for measuring cognitive function.

**HUMAN LOCOMOTION RESEARCH LAB**

**DR. T. LAM**

Our core research program focuses on understanding the neural control of walking with the aim of improving functional recovery and mobility in people with neurological injuries. Our studies span the field and include mechanistic studies to understand the neural control and adaptability of walking in able-bodied and patient populations (spinal cord injury, stroke), clinical research to develop novel rehabilitation strategies for recovery of walking following neurological injury, using robotics to develop novel outcome measures for tracking recovery of function following neurological injury, and engaging in
knowledge translation to disseminate information on rehabilitation strategies and outcomes for spinal cord injury. Our laboratory is located at ICORD's Blusson Spinal Cord Centre and the Osborne Centre on UBC campus.

MOTOR CONTROL & LEARNING LABORATORY  DR. I. FRANKS

The Motor Learning & Control Laboratory exists to customize varied experimental tasks in the area of human motor control and skill acquisition. Individualized testing rooms are serviced by high speed data acquisition and results presentation equipment. Several computers allow on-line manipulation of real-time feedback results. In addition, the lab is now equipped with a Transcranial Magnetic Stimulator, electromyography, programmable torque motors and an eye movement recording system. Recent studies that have been conducted include investigations into: on-line movement control; cognitive preparation of complex movements; the startle response, visual control of movement, bimanual coordination, movement perturbation and movement preparation.

MOTOR SKILLS LABORATORY  DR. N. HODGES

The goal of our laboratory is to conduct leading-edge research aimed at understanding the acquisition and high level performance of motor skills, and to provide a learning environment for researchers at both the undergraduate and graduate level. The lab is equipped with high speed, 3D data acquisition system for whole-body motion analyses and computer and video-based technologies associated with recording, editing and play-back, including a large, back-projection screen and visual gaze tracking hardware.

NEURAL CONTROL OF POSTURE AND MOVEMENT LABORATORY  DR. M. CARPENTER

The laboratory supports a comprehensive approach to studying dynamic control of balance and movement by combining various neurophysiological and biomechanical techniques, including surface and intra-muscular electromyography, 3D full-body motion analysis and force measurement coupled with quantitative and qualitative assessment of perceived and physiological effects of fear and anxiety. Virtual reality will be used to manipulate balance-related anxiety and recreate the environmental conditions that lead to falls in everyday life. Virtual environments will be integrated with a unique moving platform capable of producing unexpected multi-directional balance disturbances.

NEUROPHYSIOLOGY LABORATORY  DR. T. INGLIS

The focus of the Neurophysiology Laboratory is to evaluate the sensorimotor control aspects of the human nervous system using a variety of neurophysiological techniques. A major component of this laboratory will focus on using a nerve recording technique called microneurography. This is the first laboratory in Canada to use this technique, and one of a handful around the world. Microneurography makes it possible to record the single-unit (single axon) activity from the peripheral nerves of awake human subjects. Other neurophysiological techniques used in this laboratory are H-Reflex testing, galvanic vestibular stimulation, and the use of surface and indwelling electromyography to assess normal movement and movement in certain clinical Neurological populations.

PERCEPTUAL MOTOR DYNAMICS LABORATORY  DR. R. CHUA

The research themes of the Perceptual-Motor Dynamics Laboratory is centred around investigations of perceptual, cognitive, and motor contributions to the preparation, regulation, and coordination of human movement. Research is directed towards elucidating the contributions of perceptual and sensory processes to the preparation and execution of goal-directed action. Examples of research avenues include: investigations of the contributions of vision to perception and action; examinations of the relative contributions of visual and vestibular information to the guidance of human locomotion; investigations of the time course of action preparation and the affordance-based facilitation of action selection processes using electroencephalographic measures. The lab is equipped with high-speed data acquisition systems, electromyography, electrophysiological stimulation units, electroencephalography, 3D motion capture system, and work-stations for motion analysis.

PSYCHOLOGY OF EXERCISE, HEALTH, AND PHYSICAL ACTIVITY LAB  DR. M. BEAUCHAMP

The Psychology of Exercise, Health, and Physical Activity Laboratory (PEHPA Lab) is located in the War Memorial Gym. Drawing from diverse disciplines (that include behavioural medicine, organizational psychology, and education), research conducted within this lab is concerned with (a) understanding both barriers to, and facilitators of, physical activity behaviour across the age spectrum, and (b) developing conceptually-sound evidence-based interventions that are cost-effective and sustainable. Some recent research projects include; the application of transformational leadership to teaching and parenting in relation to adolescent health promotion, the study of relational efficacy beliefs in small group settings, and intra-group perceptual similarity in relation to adherence within physical activity groups.
HEALTH AND INTEGRATIVE PHYSIOLOGY LABORATORY

The focus of the Health and Integrative Physiology (HIP) laboratory is on the interactions between the respiratory and cardiovascular systems. Work in our lab is directed at understanding the physiological basis and importance of cardio-respiratory interactions in different conditions such as exercise, disease, and hypoxia. We also perform studies in patient groups to further understand the potential therapeutic effects of exercise and physical activity.

SPINE NEUROPHYSIOLOGY LABORATORY

The lab is equipped with a feedback-controlled sled to simulate whiplash motion, a feedback-controlled spinal stimulator, high-speed data acquisition systems, surface electromyography, single and multi unit indwelling electromyography, electrophysiological stimulation units, 3D motion and accelerometry systems, temperature controller, and work-stations for data analysis.

SYSTEMATIC REVIEWS RESEARCH LABORATORY

The Systematic Reviews Research Laboratory is located in Unit I of the Osborne Centre. The purpose of this research laboratory is to systematically evaluate the available medical and health science in an effort to translate and disseminate synthesized evidence-based information across the spectrum of end-users for the promotion of physical activity and prevention of chronic disease. The Systematic Reviews Research Laboratory is a member of the Physical Activity and Chronic Disease Prevention Unit.

SCHOOL OF KINESIOLOGY MICROCOMPUTER LABORATORY

The School of Kinesiology has a general microcomputer lab equipped with windows-based and Macintosh computers. The Windows machines are networked to a shared server and linked through the University backbone to the Internet. The lab is available 24 hours/day to graduate students, except when the lab is used for courses.

Graduate Courses

KIN 500
See Calendar for course update.

KIN 530A and B  
See download form at:  
http://www.hkin.educ.ubc.ca/School/grad/gradmainnew.htm

Each student is allowed a maximum of two Directed Study Courses each of which is to be completed in the term indicated in the registration guide:  
KIN 530A denotes first 3 credits  
KIN 530B denotes second 3 credits

Students are required to complete and sign a ‘contract’ (available from the HKIN website). The completed contract, with the project supervisor’s signature, is then submitted to the Graduate Program Assistant. Copies of the completed form will be returned to the student and project supervisor once the registration has been processed.

Students may not use the same information for a master’s thesis which has already received credit as a Directed Study (KIN 530). For example, if a Directed Study is to be a review of literature on a particular topic, this review cannot then become a chapter in a 12 credit thesis. The form of the KIN 530 project should be an independent article appropriate for submission to a journal for publication and shall conform to the format of the appropriate journal, e.g., A.P.A. Publications Manual.

KIN 551  
Mathematical Applications in the Study of Sport & Physical Activity
A selection of topics from:  
Stochastic models applied to the study of motor learning, involvement in sport, socialization through sport, etc;  
the assessment of change;  
analyses of scoring systems and playoff procedures used in various sports;  
game theory.

KIN 560  
Models of Sport Organization
The purpose of the course is to analyze and discuss national sport systems from different countries, their policies, programs, and practices as well as the historical, social, political, and economic influences affecting these sport systems. This material will assist students in their understanding of the salient features of effective sport systems. Issues of centralization/decentralization, Americanization, and globalization in sport will be discussed. For students interested in working in the Canadian sport delivery system, the course will provide an advanced analysis of several sport systems and a series of alternative models which are functional in other countries.
KIN 562  Bioenergetics of Physical Activity
Basic energy systems of the human body; primarily concentrating on the bioenergetics of the skeletal muscle cell, recovery from muscular work, substrate utilization, muscle fibre types, strength, endurance and the physiological assessment of maximal performance.

KIN 563  Measurement of Human Motion
A critical evaluation of research tools used to measure and assess human motor performance including electromyography, anthropometry, ergometers, indirect calorimetry, cinematography, and indirect dynamics.

KIN 564  Psycho Social Aspects of Physical Activity
Selected psycho-social considerations in sport: initial and continuing involvement in the competitive sport environment.

KIN 565  Physiological Aspects of Physical Activity
Survey of research regarding the physiological aspects of activity; the effects of altitude and environmental temperature on man’s performance in exercise and sports.

KIN 567  Human Motor Performance
Processes underlying the ability to learn and perform motor skills.

KIN 568  Seminar in Human Motor Performance
Reports and discussions of research literature concerning theories and findings in human performance. Special emphasis is given to understanding the basic mechanisms underlying motor performance within the framework of man as a component system.

KIN 569  Research Methods in Human Kinetics
Research methods applied to the study of sport and physical activity, the nature of scientific inquiry, the design of experiments, the survey as a research medium, the historical and philosophical methods of inquiry, the writing of the research report.

KIN 570  Qualitative Methods in Sport, Leisure, and Health Studies
Theoretical, methodological, and ethical debates about and approaches to qualitative methods; issues in and approaches to qualitative inquiry.

KIN 571  Seminar in Mechanical Analysis of Human Movement
An investigation of human movement using cinematographical and other research methods. The case study approach will be used to examine kinesiological concepts and principles.

KIN 572  Seminar in Health Promotion through Physical Activity
The relationship of new concepts in health to the promotion of health through physical activity; the application of research findings from a number of disciplines to the identification, selection, and targeting of health promotion/education strategies related to physical activity.

KIN 573  Seminar in Current Problems in Human Kinetics
Objectives; programs; leadership; history and trends; professional status; community organizations and auspices; attitudes and philosophy.

KIN 580  Physical Education, Sport and Exercise Programs
The development of curricula, implementation and evaluation techniques in physical education, sport and exercise programs; relationships of programs in schools, community centres and other institutions.

KIN 581  Sport, Leisure and Consumer Culture
Sport and leisure are viewed in the context of theoretical debates about mass society and consumer culture.

KIN 583  Physical Education, Sport and Exercise Programs
The development of curricula, implementation and evaluation techniques in physical education, sport and exercise programs; relationships of programs in schools, community centres and other institutions.

KIN 584  Physical Growth and Motor Development
The process of human physical growth and the relationship between growth/maturation and physical activity: sequential development of locomotor and manipulative skills and the application of critical period/optimal period literature to developmental skills.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>KIN 585</td>
<td>Coaching Science I: The application of research findings from exercise physiology, human growth and motor development, biomechanics and sport medicine, to the coaching of athletes.</td>
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<tr>
<td>KIN 586</td>
<td>Coaching Science II: The application of research findings from sport psychology, sport sociology and human motor learning, to the coaching of athletes.</td>
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<tr>
<td>KIN 590</td>
<td>Seminar in Research on Teaching in Physical Education: Development, methods and results of research on teaching physical education.</td>
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<tr>
<td>KIN 595</td>
<td>Graduating Major Paper: For MHK major paper registration.</td>
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<tr>
<td>KIN 598</td>
<td>Directed Field Studies in Sport and Physical Activity Agencies: Similar to HKIN 530 in that it requires a signed contract.</td>
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<tr>
<td>KIN 599</td>
<td>Master's Thesis: For MSc and MA thesis registration.</td>
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<tr>
<td>KIN 601</td>
<td>Doctoral Seminar:</td>
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<tr>
<td>KIN 699</td>
<td>Doctoral Thesis:</td>
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<tr>
<td>EPSE 592</td>
<td>Experimental Designs and Analysis in Educational Research: Assumes an introductory statistics background equivalent to HKIN 371, Biometrics 300 or EPSE 482. Course requirements include completion of 5 assignments that require computer analysis of data. Students unfamiliar with basic computer skills will be given tutorials. The course emphasizes the application and understanding of applied statistics. Topics include: descriptive statistics (review), t-tests (review), the analysis of variance (with emphasis on repeated measure designs), and a brief overview of correlation and regression (simple and multiple). Students must register for this course with the instructor during the first week of classes.</td>
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**WESTERN DEAN’S AGREEMENT**

Under the terms of the Western Graduate Deans’ Agreement, graduate students may take courses (subject to regulations of their Faculty) at other universities in Western Canada for credit toward their degree program at their home universities. The Host University charges no fees provided the student is currently registered and paying fees at the home institution.

Participating Universities: University of Alberta, Brandon University, University of British Columbia, University of Calgary, University of Lethbridge, University of Manitoba, University of Northern British Columbia, University of Regina, University of Saskatchewan, Simon Fraser University, University of Victoria.

**UBC students** wishing to participate should:

a) complete form [http://www.grad.ubc.ca/forms/western-deans-agreement-authorization-course-registration](http://www.grad.ubc.ca/forms/western-deans-agreement-authorization-course-registration)

b) have it signed by School’s Associate Director for Graduate Programs

The School sends the authorization form to the Dean’s Office, FoGS for approval and signature; the Dean of Graduate Studies sends the approved form to the Dean’s Office at the host institution

The student will receive a copy (yellow) when all signatures are in place. It is the responsibility of the student to arrange for the host university to send an official transcript of grades to the office of the Dean of Graduate Studies at UBC. When the Dean’s Office
receives an official transcript reflecting successful completion of the approved course, credit will be posted to the student's UBC transcript.

**GRADUATE EXCHANGE AGREEMENT**

This agreement, established in 1974, allows graduate students in good standing at UBC, McGill University, University of Toronto and University of Montreal to take courses at each other’s university without having to pay extra tuition fees to the host institution. See: [http://www.grad.ubc.ca/current-students/student-status-classification/visiting-under-graduate-exchange-agreement](http://www.grad.ubc.ca/current-students/student-status-classification/visiting-under-graduate-exchange-agreement)

### Teaching Assistantships

Applications for Teaching Assistantships are sent to returning students in early spring with successful applicants receiving their assignments in summer.

MA/MSc/MKin students are eligible to work as a TA for a maximum of two years during their first two years in the program; PhD students are eligible for a maximum of five years in the program. Reassignment of Teaching Assistantships after the first year is dependent upon satisfactory academic achievement and execution of TA responsibilities.

### Teaching & Academic Growth instructional skills workshops

Workshops are designed for Teaching Assistants in tutorials or classrooms, and graduate students interested in teaching, whose first language is English or who has mastery of English. See: [http://ctl.ubc.ca/programs/all-ourprograms/instructional-skills-workshops/](http://ctl.ubc.ca/programs/all-ourprograms/instructional-skills-workshops/) and [http://ctl.ubc.ca/programs/graduate-student-ta-programs/](http://ctl.ubc.ca/programs/graduate-student-ta-programs/)

### Awards/Funding

The University offers a wide range of programs to recognize students with high academic achievement and provide financial assistance to those who cannot meet basic educational costs. Graduate awards are administered by G+PS located in the Graduate Student Centre at 6371 Crescent Road. Information on awards and application procedures is included in the UBC publication, *A Guide to Awards and Financial Aid*, which is available from the Awards office located in Brock Hall, Room 1036, 1874 East Mall. Offices are open from 8:30 a.m. to 4:00 p.m. Students can inquire about their awards through the on-line Student Service Centre at [http://students.ubc.ca/finance/](http://students.ubc.ca/finance/)

**AWARDS - UNIVERSITY AND EXTERNAL (UGF, NSERC, SSHRC, CIHR, ETC)**
[http://www.grad.ubc.ca/current-students/scholarships-awards/funding](http://www.grad.ubc.ca/current-students/scholarships-awards/funding)

**FACULTY OF EDUCATION – OFFICE OF GRADUATE PROGRAMS AND RESEARCH**
[http://ogpr.educ.ubc.ca/funding/ogpr.html](http://ogpr.educ.ubc.ca/funding/ogpr.html)

### Travel Grants

**FACULTY OF GRADUATE & POSTDOCTORAL STUDIES**
[https://www.grad.ubc.ca/awards/graduate-student-travel-fund](https://www.grad.ubc.ca/awards/graduate-student-travel-fund)
See above website to download form.

**OFFICE OF RESEARCH ETHICS, FACULTY OF EDUCATION**
[http://ogpr.educ.ubc.ca/grad/funding/opportunities/](http://ogpr.educ.ubc.ca/grad/funding/opportunities/)
See above website to download form.
To be eligible for a travel grant from the School, a student must:

- present at a symposium or conference a refereed/invited paper of which he/she is the first author or co-author and the School is acknowledged;
- be classified as a full-time graduate student at the time the application for a travel grant is made or have made the application within 12 months of graduation.

Applications may be submitted at any time to the Graduate Assistant on the Kinesiology Travel Support Application form and must be co-signed by the student’s supervisor. The student must include proof of acceptance of their paper at the conference as well as a copy of the approval/denial letters from G+PS and the Faculty of Education.

Master’s students may be awarded one KIN travel grant ($500 maximum) during their program (and one is available from G+PS). PhD candidates are eligible for two KIN travel grants (maximum $500 for each grant).

**Student Loans**

**FINANCIAL ASSISTANCE AND AWARDS**

http://students.ubc.ca/finance/

The Student Financial Assistance and Awards office administers all needs-based awards for both graduate and undergraduate students.

Student Loans for Full-Time Students Graduate students who are Canadian citizens and permanent residents who are paying full-time graduate tuition fees, have registered in either course work or their thesis, and can demonstrate financial need may qualify for aid through student loan programs sponsored by the Federal and Provincial Governments. Students must apply for loans through the Province in which they have established residency. Residents of British Columbia apply for loans through the BC Student Assistance Program (BCSAP), which combines the Federal Canada Student Loan Program and the Canada Study Grant for Students With Dependent Children with the Provincial BC Student Loan Program.

Paper applications are available from any post-secondary institution in B.C. In order to receive funds in time for the beginning of the Winter Session in September, applications should be submitted to the Ministry of Advanced Education Training and Technology by the last working day in June. Students who apply after that date may not receive their BCSAP assistance until well into the Winter Session.

**Student Resources**

**KINESIOLOGY GRADUATE SOCIETY**

The Kinesiology Graduate Society is a student-governed association that represents the interests of graduate students within the School of Kinesiology and the Faculty of Education. It serves as a centre of communication among graduate students and faculty and is responsible for co-ordinating an annual orientation for incoming students as well as various other social functions. Through KGS, the School of Kinesiology is represented on the Faculty of Education Council, as well as the Graduate Student Society.
GRADUATE STUDENT SOCIETY (GSS)

http://www.gss.ubc.ca/

A Council composed of representatives elected by graduate students from each department administers the GSS. An Executive Committee of four is elected at large and members receive honorariums for their efforts.

The Graduate Centre houses two pubs, a ballroom, meeting rooms and other facilities. There are many ongoing events such as free pool, tai chi, and much more.

The GSS publishes a newsletter, and an annual handbook in August. This handbook includes information on the Faculty of Graduate Studies, general graduate student information, libraries, funding, jobs, housing, health, transportation, sports and recreation, and other UBC resources. Handbooks are available from the GSS office or the KIN Graduate Program Assistant.

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