

THE UNIVERSITY OF BRITISH COLUMBIA | OKANAGAN



OKANAGAN SENATE SECRETARIAT
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THE OKANAGAN SENATE

MINUTES - **draft**

Wednesday May 19, 2010

SCI 333 | UBC OKANAGAN CAMPUS

Attendance:

Present: Dr. P. Arthur (Acting Chair), Mr. F. Vogt (Acting Secretary), Dr. A. Abd-El-Aziz (Provost and Vice-Principal), Dr. P. Balcaen, Dean R. Belton, Ms. M. Burton, Mr. N. Cadger, Dean R. Campbell, Dr. J. Cioe, Dr. F. de Scally, Ms. L. Driscoll, Dr. J. Holzman, Dr. G. Jones, Mr. S. Joseph, Dr. D. Keyes, Dean M. Krank, Dr. R. Lalonde, Ms. E. Landry, Dr. S. McCoubrey, Acting Dean C. Mathieson, Dr. B. Nilson, Dr. B. O'Connor, Dr. G. Pandher, Ms. L. Patterson, Dr. C. Robinson, Ms. L. Super, Acting Dean E. Taylor, Ms. A. Weiss, Dr. S. Yannacopoulos

Guests: Dr. B. Bauer, Ms. L. Collins, Ms. N. Hager

Regrets: Dean T. Aboulnasr, Mr. D. Berry, Dr. J. Castricano, Dr. J. Cheng, Dr. M. Duran-Cogan, Dr. C. Hodge, Mr. A. Hu, Dr. J. Johnson, Dr. A. Joy, Ms. S. Larose, Ms. M. Laviolette, Dr. G. Lovegrove, Dr. R. Mack, Ms. S. Morgan-Silvester (Chancellor), Dean D. Muzyka, Dr. H. Najjaran, Mr. C. Norman, Dr. D. Owsram, Mr. B. Paton, Dr. M. Rheault, Mr. J. Ridge (Associate Vice-President, Enrolment Services and Registrar), Dr. B. Schulz-Cruz, Prof. S. J. Toope (President and Vice-Chancellor), Mr. D. Vineberg, Mr. C. Wain, Ms. G. Zilm

Recording Secretary: Ms. K. Ross

Call to Order

In the absence of the President and the Vice-Chair, Acting Chair Dr. Arthur called to order the ninth and final regular meeting of the Senate for the 2009/2010 academic year.

Senate Membership

Following an earlier call for nominations and according to the *Rules and Procedures of Senate, Section 23 (e)*, the Acting Secretary declared Student Senator Ms. Emily Landry acclaimed as elected to serve on the Nominating Committee until March 31, 2011 and thereafter until replaced.

Calls for Nominations

The Acting Secretary issued a second call for nominations for one (1) student representative to serve on the Nominating Committee until March 31, 2011 and thereafter until replaced.

The Acting Secretary issued a third call for nominations for one (1) faculty representative to replace Dr. Carol Scarff on the Nominating Committee until August 31, 2011 and thereafter until replaced.

Minutes of the Previous Meeting, April 28, 2010

Moved: Dr. Lalonde

Seconded: Dr. Cioe

That the minutes of the Okanagan Senate Meeting of April 28, 2010 be adopted as presented.

The motion was put and carried.

Granting of Degrees

Acting Chair Dr. Arthur called for the following motion:

Moved: Dean Krank

Seconded: Dr. Cioe

That the candidates for degrees, as recommended by the Faculties and the College of Graduate Studies, be granted the degrees for which they were recommended, effective May 2010, and that a committee composed of the Registrar, the appropriate Dean(s), and the Chair of the Okanagan Senate, be empowered to make any necessary adjustments (2/3 majority required).

Discussion

Dr. Yannacopoulos proposed the following amendment (shown underlined):

That the candidates for degrees, as recommended by the Faculties and the College of Graduate Studies, be granted the degrees for which they were recommended, effective May 2010, and that a committee composed of the Registrar, the appropriate Dean(s) or their appointed delegates, and the Chair of the Okanagan Senate, be empowered to make any necessary adjustments (2/3 majority required).

The amendment was accepted by unanimous consent.

The amended motion was put and carried by the required 2/3 majority.

Academic Building and Resources Committee/Council of Senates Budget Committee, Okanagan Sub-committee

Committee Chair Dr. Daniel Keyes presented the report.

Oral Report on Committee Activities

Dr. Keyes reported that the Committee had been satisfied with the 2010 Budget as presented by the Deputy Vice-Chancellor and Principal. He highlighted that the budget reflected increased faculty hiring and replacements in areas of rising enrolment. Dr. Keyes noted that over the next year the Committee would likely discuss whether enrolment growth should be managed according to the enrolment demands for each program or by the availability of teaching and laboratory space. Dr. Keyes noted that as Chair of the Okanagan Sub-committee of the Council of Senates Budget Committee, he served alongside Vancouver Councilors on the full Council of Senates Budget Committee.

Dr. Keyes noted that beyond budgetary issues, the Committee had considered three specific areas as follows:

1. Sustainable Campus Development

Dr. Keyes summarized that Ms. Podger, Associate Vice-President, Administration and Finance at the UBC Okanagan campus, had provided an overview of aspects sustainable campus development such as various green initiatives. A comparative analysis had been conducted on the value of those initiatives which concluded that exploring partnerships with the City of Kelowna could be a priority.

2. Teaching Spaces Survey

Dr. Keyes reported that in response to a joint request by the Academic Building and Resources Committee and the Learning and Research Committee, the Senate Secretariat had circulated and compiled a survey which assisted the Committee to

prioritize a list of teaching spaces on the Okanagan campus. The Committees agreed that in order to sustain rising enrolment, older teaching spaces should be renovated so as to increase the total useable teaching space on campus.

Dr. Keyes noted, however, that renovation projects would be unlikely due to the reduced provincial budget; he added that the Academic Building and Resources and the Learning and Research Committees would continue to jointly work on this item in 2010/2011.

3. Completion of New Buildings

Dr. Keyes noted that the lecture and laboratory spaces in the Arts and Science Building 2 would likely be completed in September 2010, while those spaces in the Engineering, Management and Education Building had been scheduled to open in September 2011. The Academic Building and Resources Committee and the Learning and Research Committee had observed rather high ratios of faculty offices to teaching spaces in both of those buildings, which would be analyzed over the next year.

Dr. Keyes highlighted that the Committee, with support from Ms. Podger, would coordinate efforts over the next year to increase, above and beyond the standards specified in the British Columbia Building Code, the mobility of individuals visiting and/or working at the Okanagan campus.

Academic Policy Committee

Committee Chair Dr. Jan Cioe presented the report.

Endorsement of Memorandum on Interdisciplinary Graduate Studies and the Recently Approved College of Graduate Studies Governance Structure

The following is an excerpt from the memorandum:

On April 28th 2010 Senate approved a governance structure for the College Graduate Studies (COGs) that clearly delineated the division between the duties and responsibilities of the COGs and Faculties. A footnote in “06a O-4 Governance of COGs package” notes “Faculties in these references shall be taken to include the Interdisciplinary Graduate Studies Program for the purposes of the administration of the program” (14). The following defines how IGS operates as a program within COGs and how in select number of administrative aspects it operates like a faculty. If Academic Policy deems it necessary to codify this relationship as policy, it is free to adapt the statements below that reflect the current state of IGS/COGs relationship.

Faculty Feature

IGS’s reporting structure, whereby the director reports directly to the Provost while consulting with the Dean of COGs, gives it a faculty-like feature.

On April 7th 2010, COGs delegated to the newly constituted IGS committee the ability to set and review its program's policy, manage awards and scholarship, and manage its curriculum like any other faculty.

IGS relies on other faculties' ability to assess applicants, but ultimately IGS makes recommendation to COGs for admissions.

Program Features

This committee operates within COGs as a subcommittee of COGs (see the governance structure below in the Appendix). Decisions made by the IGS committee continue to flow through to COGs. In the case of curriculum as with all Graduate level curriculum, new and revised IGS courses and themes approved by IGS council will flow through COGs to Senate's Curriculum committee.

Unlike other faculties, IGS relies on other faculties via its unit and departmental program coordinator for faculty level funding, space and human resources for program delivery. Given the integration of COGs and IGS website and reliance on COGs for administrative assistance, IGS will continue to draw on COGs for clerical support.

Dr. Cioe reported that Dr. Keyes, Acting Director of Interdisciplinary Graduate Studies (IGS) and Dean Krank of the College of Graduate Studies (COGS), had agreed to the governance structure as outlined in the memorandum.

Moved: Dr. Cioe
Seconded: Dean Krank

That Senate receive and endorse the Memorandum on Interdisciplinary Graduate Studies and the Recently Approved College of Graduate Studies Governance Structure.

The motion was put and carried.

Revision of Policy O-4: Governance of the College of Graduate Studies

Dr. Cioe summarized that in April 2010 Senate had approved Policy O-4: *Governance of the College of Graduate Studies*, and had directed the Academic Policy Committee to review Section 5(a)(i) (sections relating to the apportionment of faculty member representation on the Graduate Council) and make a recommendation therein to Senate .

The Academic Policy Committee proposed the following revisions to Section 5(a): *The Graduate Council*:

Membership and Terms of Office

- i. The *Graduate Council*'s voting membership is as follows:
 1. Dean of the *College of Graduate Studies*;
 2. President;
 3. Deputy Vice-Chancellor;
 4. University Librarian or his or her designate;
 5. Provost;
 6. Associate Vice-President, Learning Services;
 7. Deans of Faculties or his or her designate;
 8. Director of Interdisciplinary Graduate Studies;
 9. **Nineteen (19)** Faculty members, apportioned as follows:
 - a. Eight (8) ~~Six (6)~~ from the Faculty of Arts & Sciences, ~~with one from each academic unit therein;~~
 - b. **Three (3) each from the faculties of Applied Science and Creative & Critical Studies;**
 - c. **Two (2) each from the faculties of Education and Health & Social Development; and**
 - d. **One (1) from the Faculty of Management**
 - e. ~~Two (2) from Faculty of Creative & Critical Studies, with one from each department therein;~~
 - f. ~~One (1) each from the faculties of Applied Science, Education, Management, and Health & Social Development;~~
 10. Student members, apportioned as follows provided that no more than one student may be registered in each faculty:
 - a. Two (2) doctoral students elected by and from the doctoral students; and
 - b. Two (2) master's students elected by and from the master's students.
- ii. The Registrar or his or her designate and the Director of Graduate Administration shall be non-voting members of the *Graduate Council*.
- iii. Faculty members serving under Section 5 (a)(i)(9) shall be appointed in a manner specified and under such terms **and further apportionments** as decided upon by their respective faculties.
- iv. **The apportionment of faculty members under Section 5 (a)(i)(9) shall be reviewed by the responsible committee every triennium, such a review shall be in consultation with the Graduate Council and the faculties and take into consideration the distribution of graduate students and faculty members across the faculties.**

Moved: Dr. Cioe
 Seconded: Dean Krank

That Section 5 of Policy 0-4 be amended as set out above.

Discussion

In response to Dr. Robinson's request for clarification of the model used to determine the apportionment of faculty representation on the Graduate Council, Dean Krank explained that several models had been examined by the Committee and that the model agreed upon by the Committee was also currently in use by UBC Vancouver's Faculty of Graduate Studies' Graduate Council.

Responding to a question from Dr. Jones, Dean Krank confirmed that all graduate students enrolled in a thesis course were calculated as full-time equivalents (FTEs) and added that the number of courses taken per term by full-time, part-time, and summer students was used to calculate the number of FTEs.

Dr. Lalonde asked whether the apportionment of faculty members ought to be reviewed more often than every triennium, notably during periods of growth. Ms. Collins was recognized by the assembly. She clarified that although Section 5(a)(iv) stated that the apportionment of faculty members under Section 5(a)(i)(9) "shall be reviewed by the responsible every triennium" it did not specify when during the triennium the review must occur. The Academic Policy Committee might, as the responsible committee, determine that due to significant growth in one or more of the faculties a review of the Graduate Studies Council membership should be conducted in the first year of the following triennium.

The motion was put and carried.

Admissions and Awards Committee

Committee Chair Dr. McCoubrey presented the report.

Enrolment Targets

Dr. McCoubrey noted that as per Section 27(2)(r) of the *University Act*, and under their terms of reference, the Admissions and Awards Committee was responsible for recommending to Senate annual enrolment targets by faculty, program, and year for new and continuing students. She explained that due to the continued and rapid growth of the Okanagan campus, targets were unavailable in 2010. Dr. McCoubrey remained hopeful that the Committee, in conjunction with the Enrolment Management Steering Committee, would review and recommend to Senate enrolment targets for 2011/2012.

Dr. Cioe echoed Dr. McCoubrey's hope that enrolment targets would be received and approved by Senate in 2011.

New Awards

See also, 'Appendix A: New Awards'

Moved: Dr. McCoubrey

Seconded: Dr. Robinson

That Senate accept the new awards as listed and forward them to the Board of Governors for approval; and that letters of thanks be sent to the donors.

Discussion

Dr. Keyes questioned the criteria for eligibility for the Henderson Award in International Development. Dr. de Scally observed that students in all faculties might be involved in international health and/or international community development initiatives, not only students from the Faculty of Health and Social Development. He suggested that the award terms specify that students from all faculties be eligible.

Dr. McCoubrey agreed that while the award should not exclude students enrolled in other faculties, she noted that the award was granted on the recommendation of the Faculty of Health and Social Development in consultation with Go Global and the College of Graduate Studies. Dr. McCoubrey and Dean Krank confirmed that the College of Graduate Studies would be consulted in the event that a graduate student had been recommended by the Faculty of Health and Social Development.

Dr. Robinson suggested that clarification be sought from the donor, and that the Henderson Award in International Development be divided from the proposed new awards package and be referred to the Admissions and Awards Committee.

Motion to Divide

Moved: Dr. de Scally

Seconded: Mr. Cadger

That the Henderson Award in International Development be divided from the main motion for separate consideration.

The motion was put and carried.

Discussion on the Henderson Award in International Development

By consent, the assembly agreed to refer the Henderson Award in International Development to the Admissions and Awards Committee for further consideration.

Discussion on the Main Motion

In response to a question from Dr. de Scally, Dr. McCoubrey confirmed that the Donna Elliott Memorial Entrance Scholarship in Nursing would be offered primarily based on

academic achievement based on the following criterion for scholarships and prizes awarded at The University of British Columbia:

Scholarships & prizes (see:

<http://okanagan.students.ubc.ca/finance/awards.cfm?go=scholarships>)

Merit-based awards, such as scholarships and prizes, are offered mainly based on your academic performance. Most will not require that you indicate financial need, although there are a number that combine need and merit. Scholarships and prizes are provided by the University and by many other donors, including the government, community organizations and corporations.

Scholarships are awarded primarily for academic achievement but some may require achievement in other areas such as leadership, community service, artistic endeavours and athletics. Typically, they will be offered based on achievements in the preceding school year and will be awarded at the beginning of the Winter session. Scholarships are applied to tuition first.

While "award" may refer to many types of academic funding, it may also refer to a specific category. Awards have an academic requirement but will also emphasize community involvement or other non-academic qualifications. They may be awarded at the beginning of the year, like a scholarship, or at the end of the year, like a prize, depending on the intent of the award.

Prizes are awarded based on academic achievement at the end of a session. They may be awarded on the basis of performance in a specific course, best student in the program or for some other specified characteristic. Prizes are awarded at the end of the session and recipients are not required to return to UBC in order to receive them. Some prizes have a monetary award while others may be in the form of a book or medal.

Most scholarships, awards and prizes at UBC **do not require an application form or nomination**. UBC faculties and departments make recommendations and the University contacts the recipients.

For minimum scholarship course load requirements, please see the [UBC Senate Regulations Governing University Awards](#).

The main motion was approved.

Admissions Proposals

Three admissions proposals were presented:

- i. **Bachelor of Human Kinetics – Admission Requirements; and Specific Program Requirements for Applicants Following the BC/Yukon Secondary School Curriculum (Math)**

The proposal was to modify the Bachelor of Human Kinetics admission criteria, based on new BC high school mathematics curriculum.

ii. **School of Engineering: Bachelor of Applied Science Program (Admission from Camosun Bridging Program)**

The proposal was to modify the Bachelor of Applied Science program admission requirements to reflect current practice and inform students coming via the Camosun Bridging program that they will be required to take extra courses which will normally require them to complete five (5) terms of coursework at UBC Okanagan.

iii. **Student Declaration**

The proposal was to remove reference to the Association of Universities and Colleges of Canada (AUCC) and clarify of current language on disclosure of information on the UBC Application Form for Undergraduate Admission.

Moved: Dr. McCoubrey

Seconded: Acting Dean Mathieson

That Senate approve the proposed changes to the Bachelor of Human Kinetics – Admission Requirements; and Specific Program Requirements for Applicants Following the BC/Yukon Secondary School Curriculum to the Bachelor of Human Kinetics in the Faculty of Health and Social Development;

And

That Senate approve the proposed changes to the School of Engineering: Bachelor of Applied Science Program (Admission from Camosun Bridging Program);

And

That Senate approve the revised Calendar entry: UBC Admissions Student Declaration.

The motion was put and carried.

Annual Report on Admissions Appeals

For information and on behalf of the Committee, Chair Dr. McCoubrey presented the Annual Report on appeals on applications for admission and readmission to programs: between May 1, 2009 and April 30, 2010 ten (10) student appeals for admission to a degree program had been heard. Of those appeals, five (5) were allowed and five (5) were dismissed.

Appeals of Standing and Discipline Committee

Committee Chair Mr. Cadger presented the report.

Annual Report on Committee Activities

The Committee had circulated for information the Annual Report on Student Discipline. Since May of 2009, one (1) academic misconduct appeal had been heard, which was dismissed; one (1) academic standing appeal had been heard, which was allowed. Of the five (5) non-academic misconduct appeals heard: three (3) were allowed, two (2) were dismissed.

Discussion

Dr. Cioe expressed his gratitude for the useful format of the annual report.

Curriculum Committee

Committee Chair Dean Campbell presented the report.

See also, 'Appendix B: Curriculum Summary'.

Moved: Dean Campbell

Seconded: Mr. Joseph

That Senate approve the new and revised courses and programs brought forward by the Faculties of Applied Science, Arts and Sciences, Health and Social Development, and the College of Graduate Studies as set out in the attached proposals.

Discussion

Dr. Cioe raised the issue of fees associated with the proposed zero-credit course: *VGRS 500: Visiting Graduate Research Student*. Although Dr. Cioe agreed in principle with the rationale, he was concerned that visiting students registered in this course may not attain value for its cost. Dean Belton reported that according to the 2010/2011 UBC Okanagan Calendar students registered in a zero-credit course would be assessed for fees at one (1) credit. The Curriculum Committee was directed to report back to Senate in September 2010 on the actual cost of the course.

The motion was put and carried.

Nominating Committee

Committee Member Dr. Cioe presented the report.

Council of Senates Membership Adjustments: Student Senators

Moved: Dr. Cioe

Seconded: Ms. Landry

That Senate elect the following student to the Council of Senates under the

University Act, S. 38.1(1)(f) for a three-year term: Mr. Calvin Wain;

And

That Senate elect the following student (who must be a graduate student) to the Council of Senates under the University Act, S. 38.1(1)(f) for a three-year term: Ms. Laura Super;

And

That Senate appoint the following student to the Council of Senates Okanagan appointed Student Senator to replace Ms. Rachael L'Orsa as representative of Okanagan Senate Committee Five under the University Act, S. 38.1(1)(i): Mr. Cecil Norman.

The motion was put and carried.

2009/2010 Annual Report from the Okanagan Sustainability Institute (OSI)

The assembly recognized Dr. Bernard Bauer, Director of the Okanagan Sustainability Institute (OSI).

Dr. Bauer recalled that the OSI had been approved by Senate in December 2006, and that since that time the OSI has been challenged to recruit and retain a full-time Director. While interim leadership had forged key relationships with the City of Kelowna and the Central Okanagan Regional District, formal agreements had not been signed. Dr. Bauer reported that in July 2009, he had been appointed as the first full-time Director for a one-year term ending on June 30, 2010.

Dr. Bauer addressed strategies adopted for the OSI including the engagement of faculty members at the UBC Okanagan campus and their specific research areas in relationship with external community partners. The objective was to generate opportunities for working relationships between interested participants that might not otherwise exist while working in isolation.

Dr. Bauer outlined four research proposals that had been developed and submitted under the OSI in the past year including: *Preparing for an Uncertain Water Future in Nepal through Sustainable Storage Development*; *Wild Predator Loss Prevention – Mitigation Project*; *A Comparative International Assessment of the Adaptive Capacities of Water Resources Management Systems in Response to Climate Change Stressors*; and *Toward a Sustainable Agricultural Future – The Okanagan Case*. Dr. Bauer was pleased to report that the OSI had developed further proposals to engage further community groups, non-government organizations, and the University of Washington.

Discussion

In response to a question from Dr. Cioe, Dr. Bauer reported that a three-year collaborative research effort had recently begun between water modelers and resource managers from the OSI, the Okanagan Basin Water Board, the North Central Washington

Research Conservation and Development District (USDA), and the University of Washington.

Dr. Bauer stated that he and a group of faculty members from programs such as Anthropology, Indigenous Studies, and Sociology had recently met with respect to cultural sustainability in the Okanagan. Dr. Bauer confirmed that the theme of sustainability included multiple faculties and extended far beyond environmental impacts.

Adjournment

There being no further business, the meeting was adjourned. The first regular meeting of the Senate for the 2010-2011 academic year was scheduled for Wednesday September 22, 2010 at 3:30 pm to 5:30 pm in ART 386.

**Regrets: Kelly Ross (250) 807-9259 or email kelly.ross@ubc.ca
UBC Senates and Council of Senates website www.senate.ubc.ca**

Appendix A: New Awards

Donna Elliott Memorial Entrance Scholarship in Nursing: A \$1,000 scholarship has been endowed by family, friends, and colleagues of Donna Elliott for a student entering the School of Nursing in the Faculty of Health and Social Development at The University of British Columbia Okanagan from secondary school, with preference given to a student entering from a secondary school in the central Okanagan region. The scholarship is established in loving memory of Donna Elliott, whose compassion and excellence during 28 years in nursing at Kelowna General Hospital exemplified this caring profession. (First award available for the 2010/11 Winter Session)

UBC Okanagan Alumni Bursary: Bursaries totalling \$1,000 are offered by alumni and friends for third or fourth year students at The University of British Columbia Okanagan. (First awards available for the 2010/11 Winter Session)

Henderson Award in International Development (NOTE: DIVIDED FROM THE ITEMS FOR SENATE APPROVAL AND REFERRED TO THE ADMISSIONS AND AWARDS COMMITTEE): A \$1,000 award is offered by the Henderson family through the Shuswap Community Foundation to an undergraduate or graduate student at The University of British Columbia Okanagan who is involved in international health and/or international community development initiatives, with preference given to an international student. The award is made on the recommendation of the Faculty of Health and Social Development in consultation with Go Global and the College of Graduate Studies. (First award available for the 2010/11 Winter Session)

Appendix B: Curriculum Summary

From the Faculty of Applied Science

1. The following new courses:

- a. ENGR 342 (3) Open Channel Flow
- b. ENGR 516 (3) Advanced Manufacturing
- c. ENGR 575 (3) Analytical Techniques in Materials Characterization
- d. ENGR 576 (3) Mechanical Behaviour of Solids
- e. ENGR 577 (3) Theory of Elasticity and Plasticity
- f. ENGR 579 (3) Combustion
- g. ENGR 585 (3) Turbulence
- h. ENGR 590 (3) Advanced Fluid Mechanics
- i. ENGR 595 (3) Solidification: Science and Processing

From the Faculty of Arts and Sciences

2. The following new courses:

- a. ANTH 425 (3) Seminar in Medical Anthropology
- b. GEOG 421 (3) Geography of Food Systems

From the Faculty of Health and Social Development

3. The following new courses:

- a. HMKN 313 (3) Exercise Metabolism
- b. HMKN 314 (3) Body Composition
- c. HMKN 400 (3) Ethics for Health Practitioners
- d. HMKN 401 (3) Community Placement Experience
- e. HMKN 411 (3) Environmental Physiology
- f. HMKN 412 (3) Neuromuscular Physiology
- g. HMKN 413 (3) Cortical Control of Movement
- h. HMKN 414 (3) Advanced Circulatory Physiology
- i. HMKN 422 (3) Health Promotion II: Applications
- j. HMKN 423 (3) Applied Nutrition: Exercise and Chronic Disease
- k. HMKN 431 (3) Exercise Rehabilitation for Clinical Disorders of Aging
- l. HMKN 501 (3) Colloquium in Exercise Sciences

From the College of Graduate Studies

4. The following new course:
 - a. VGRS 599 Visiting Graduate Research Students
5. The following revised Interdisciplinary Graduate Studies theme:
 - a. Health and Exercise Sciences