THE UNIVERSITY OF BRITISH COLUMBIA

OKANAGAN SENATE SECRETARIAT
Enrolment Services
Senate and Curriculum Services

Okanagan Campus
University Centre · UNC 322
3333 University Way
Kelowna, BC · V1V 1V7
Tel: (250) 807-9619 · Fax: (250) 807-8007
www.senate.ubc.ca

March 30, 2011

To: **Okanagan Senate**

From: **Curriculum Committee**

Subject: **March Curriculum Proposals (approval)**

The Senate Curriculum Committee has reviewed the material forwarded to it by the Faculties and encloses those proposals it deems ready for approval.

As such, the following is recommended to Senate:

Motion: ***That Senate approve the new courses brought forward by the Faculties of Arts and Sciences, Creative and Critical Studies, and Health and Social Development as set out in the attached proposals.***

For the Committee,
Dean Marvin Krank
Chair, Curriculum Committee

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March 30, 2011

To: **Okanagan Senate**

From: **Curriculum Committee**

Subject: **February Curriculum Proposals (approval)**

Enclosed please find the following for your consideration:

From the Faculty of Arts and Sciences

1. The following new courses:
    a. GEOG 474 (3) Qualitative Research in Human Geography
    b. PHYS 231 (3) Introduction to Electronics
    c. PHYS 232 (3) Modern Physics Laboratory
    d. PHYS 331 (3) Experimental Physics I
    e. PHYS 332 (3) Experimental Physics II
    f. PHYS 431 (3) Optics Project Laboratory
    g. PHYS 432 (3) Special Topics in Experimental Physics

2. The following revised program:
    a. Major in Physics

From the Faculty of Creative and Critical Studies

3. The following new courses:
    a. ARTH 115 (3) Popular Music and Visual Cultures
    b. ARTH 324 (3) Sound Art and Experimental Music
    c. CULT 490 (3/9) d Topics in Cultural Studies
    d. SPAN 305 (3): Hispanic Literature and Criticism I
    e. SPAN 306 (3): Hispanic Literature and Criticism II

From the Faculty of Health and Social Development

4. The following new courses:
    a. HINT 523 (3) Nutrition for Health and Exercise Science
    b. HMKN 190 (3) Functional Anatomy and Applied Physiology I
    c. HMKN 191 (3) Functional Anatomy and Applied Physiology II
    d. HMKN 315 (3) Sensory and Motor Neuroscience
    e. HMKN 421 (3) Advanced Theories of Health Behaviour Change

THE UNIVERSITY OF BRITISH COLUMBIA

Curriculum Proposal Form
New Course – Okanagan Campus

Category: 1

Faculty: Arts & Sciences **Unit:** 6, CCGS **Faculty Approval Date:** February 1, 2011 **Effective Session:** 2011W	**Date:** 14/12/10 **Contact Person:** Lawrence Berg **Phone:** 250.807.9348 **Email:** lawrence.berg@ubc.ca
Proposed Calendar Entry: **GEOG 474 (3) Qualitative Research in Human Geography** **Theoretical aspects, principles, and methods of qualitative research in human geography. [1-0-2]** **Prerequisites: Third-year standing. GEOG 371 highly recommended.**	**Draft Calendar URL:** N/A **Present Calendar Entry:** N/A **Type of Action:** New course. **Rationale:** This course is designed to complement our current third-year methodology course and provide students who are planning to apply to graduate school with a solid methodological background.

THE UNIVERSITY OF BRITISH COLUMBIA

Curriculum Proposal Form
New Course – Okanagan Campus

Category: 1

Faculty: Arts & Sciences **Unit:** Unit 5 **Faculty Approval Date:** February 24, 2011 **Effective Session:** 2011W	**Date:** November 8, 2010 **Contact Person:** Dr. Erik Rosolowsky **Phone:** 250.807.9623 **Email:** erik.rosolowsky@ubc.ca
Proposed Calendar Entry: **PHYS 231 (3) Introduction to Electronics** **Design and analysis of analog AC circuits, digital circuits, and analog-to-digital conversion methods. Basic physics laboratory skills including data collection, presentation of results, and analysis of uncertainties. Credit will not be granted for both PHYS 231 and PHYS 219. [2-3-0]** ***Prerequisite:* MATH 101 and one of PHYS 102, PHYS 122.** **PHYS 232 (3) Modern Physics Laboratory** **Selected experiments in relativity, quantum mechanics, thermodynamics, particle physics or nuclear physics. Quantitative analysis of data, methods of measurement, formal presentation of laboratory**	**Draft Calendar URL:** N/A **Present Calendar Entry:** ~~**PHYS 219 (3) Methods of Measurement I**~~ ~~**Covers basic laboratory techniques with emphasis on the use of computers in the collection and analysis of data. The student will be expected to write basic computer programs to allow interface boards to collect data. Various transducers to measure physical quantities such as temperature, sound, velocity and acceleration, pressure and magnetic field; spreadsheets for the analysis of data and word processors for the preparation of formal reports. [0-3-1]**~~ ~~***Prerequisite:* MATH 101 and one of PHYS 102, PHYS 122.**~~ ~~**PHYS 229 (3) Methods of Measurement II**~~ ~~**Continuation of PHYS 219. Experiments selected to complement other Physics courses currently taken by enrolled students. Experiments from other scientific disciplines may be included. Emphasis on the use of**

results. Credit will not be granted for both PHYS 232 and PHYS 229. [2-3-0] ***Prerequisite:* MATH 101 and one of PHYS 102, PHYS 122.**	~~**computers as a tool in collecting, analyzing, and reporting data. Programming related to the collection of data. [0-3-1]**~~ ~~***Prerequisite:* PHYS 219.~~**
PHYS 331 (3) Experimental Physics I **Selected advanced physics experiments in solid-state physics, fluid dynamics, particle physics, astrophysics, optics, nonlinear dynamics or electromagnetism. Emphasis on experimental design and construction, including machine shop training. Credit will not be granted for both PHYS 331 and PHYS 327. [0-3-1.5]** ***Prerequisite:* PHYS 231, 232**	~~**PHYS 327 (1.5) Electrical Laboratory I**~~ ~~**Selected experiments in electromagnetism; computer data acquisition and control; amplification and feedback; operational amplifiers; digital logic. [0-3-0]**~~ ~~***Prerequisite:* All of PHYS 225, PHYS 229.~~**
PHYS 332 (3) Experimental Physics II **Student designs and constructs a single experiment in solid-state physics, fluid dynamics, particle physics, astrophysics, optics or electromagnetism. Emphasis on experimental design, construction, and formal presentation of results. Credit will not be granted for both PHYS 332 and PHYS 329. [0-3-1.5]** ***Prerequisite:* PHYS 331**	~~**PHYS 329 (1.5) Electrical Laboratory II**~~ ~~**Continuation of PHYS 319. Selected experiments in electromagnetism; computer data acquisition and control; amplification and feedback; operational amplifiers; digital logic. [0-3-0]**~~ ~~***Prerequisite:* PHYS 327.~~**
PHYS 431 (3) Optics Project Laboratory **Optics and imaging science. Projects may include optical and other imaging methods, actual and computer-simulated; and optical investigations of diverse physical phenomena. Techniques may include geometrical optics, spectroscopy, scattering, interferometry, Fourier optics, and Schlieren effect. Credit will not be granted for both PHYS**	~~**PHYS 419 (1.5) Experimental Physics I**~~ ~~**Advanced laboratory course consisting primarily of optics experiments; other topics will also be covered. Specific experiments may include photography, geometrical optics, interferometry, Shlieren effect, and Fourier optics. [0-3-0]**~~ ~~***Prerequisite:* PHYS 229.~~**

431 and PHYS 419. [0-3-1.5] ***Prerequisite:* PHYS 231, 232** **PHYS 432 (3) Special Topics in Experimental Physics** **Laboratory-based course in a selected topic of modern physics as determined by student interest and faculty availability. Consult with the department regarding topics offered. Credit will not be granted for both PHYS 432 and PHYS 429. [0-3-1.5]** ***Prerequisite:* PHYS 231, 232**	~~**PHYS 429 (1.5) Experimental Physics II**~~ ~~**Under the instructor's guidance, students select and complete a project. Project reports emphasizing technical writing are included. Each student will give a class presentation of project results. [0-3-0]**~~ ~~***Prerequisite:* PHYS 419.**~~ **Type of Action:** Delete and create six courses with new course numbers due to substantial revisions of course titles, credit hours, vectors, calendar descriptions, prerequisites and seminar hour changes. **Rationale:** The Physics program differs from some other laboratory sciences in that the experimental component of the curriculum is delivered as stand-alone courses. The Vancouver campus follows a similar model in their physics program. Okanagan campus physics majors are currently required to take six terms of these stand-alone laboratory courses beginning in their second year. In a separate action in this package, we propose to reduce the number of required laboratory courses to four from six. This proposal completes the revision by formalizing the curriculum covered in each course and increasing the time investment and credit values of the courses. In essence, the laboratories are being restructured into fully-fledged courses in experimental physics. The new laboratory curriculum would then follow a two-year program with elective components. *PHYS 231* -- Introduction to Electronics: This is a revision of the course to reflect its course description as currently being taught. The one-hour seminar is being

	moved into two hours of lecture component designed to introduce the theory of electronics and electric circuits. *PHYS 232* -- Modern Physics Laboratory: A second semester of Methods of Measurement (229) is being changed into a modern physics laboratory, using experiments that complement the other courses in the second-year physics program. The first-year physics laboratories give little or no introduction to modern physics topics (20th century and beyond) and the second-year theory courses currently have no laboratory synergy. Again, the seminar hour is being moved into two hours of lecture. In addition to covering the theory of the specific experiments being covered, the lecture component will develop the theory of measurement and errors with levels of mathematical rigour that cannot be presented in first year. Topics like least-squares fitting, statistics and errors, and measurement error propagation are covered. *PHYS 331 / 332* -- Experimental Physics I and II: These courses are being restructured into a one-year sequence of Experimental Physics. The first term centres on a set of experiments in modern physics with topics complementing the advanced physics lectures. Students learn experimental techniques including building and design topics (machine shop, soldering, etc.). Student will work through a rotation of experiments with a time on experiment of roughly three weeks. In PHYS 332, they will select one of a set of experiments or develop a new experiment in consultation with the faculty member in charge. They will spend the term improving the experimental apparatus with the faculty member in charge using the skills from the previous three terms to make a marked improvement to or creation of an experiment that can be used in future years.

	In PHYS 331/332, there is a 1.5-hour seminar, which is designed to foster scientific communication skills. Students will share their results with each other. Students will also be introduced to the scientific literature relevant to their experiments and will present material from these articles. We anticipate that PHYS 331/332 will be offered every other year, so that students can take it in either their third- or fourth-year in the program. This will also allow the faculty to have more flexibility in their theory offerings. We propose to retain the fourth-year laboratory courses (PHYS 431/432) to be offered as topic-oriented laboratory courses. PHYS 419 is redirected into PHYS 431, an optics laboratory. PHYS 429 is redeployed as PHYS 432 as a special topics course in experimental physics and retained as part of the major for future development of different experimental physics courses.

THE UNIVERSITY OF BRITISH COLUMBIA

Curriculum Proposal Form
Change to Program – Okanagan Campus

Category: 1

Faculty: Arts & Sciences **Unit:** Unit 5 **Faculty Approval Date:** February 24, 2011 **Effective Session:** 2011W	**Date:** November 15, 2010 **Contact Person:** Erik Rosolowsky **Phone:** 250.807.9623 **Email:** erik.rosolowsky@ubc.ca
Proposed Calendar Entry: Homepage > Faculties, Schools, and Colleges > Faculty of Arts and Sciences > Bachelor of Science Programs > Physics and Astronomy ***Physics and Astronomy*** **[12260] Major in Physics** [...] **[12251]**	**Draft Calendar URL:** http://www.calendar.ubc.ca/okanagan/proof/edit/index.cfm?tree=18,282,858,995 **Present Calendar Entry:** Homepage > Faculties, Schools, and Colleges > Faculty of Arts and Sciences > Bachelor of Science Programs > Physics and Astronomy ***Physics and Astronomy*** **[12260] Major in Physics** [...] **[12251]**

First Year	Credits
CHEM 111, 113; or CHEM 121, 123	6
Two of ENGL 112, 113, 114, 150, 151, 153	6
MATH 100, 101	6
PHYS 102, 111; or PHYS 112[1], 122[1]	6
Electives[2]	6
Total Credits	30

First Year	Credits
CHEM 111, 113; or CHEM 121, 123	6
Two of ENGL 112, 113, 114, 150, 151, 153	6
MATH 100, 101	6
PHYS 102, 111; or PHYS 112[1], 122[1]	6
Electives[2]	6
Total Credits	30

Second Year	
ASTR 210, or one of PHYS 225, 305, 320	**3**
MATH 200, 221[3], 225, 317[4]	**12**
PHYS 200, 215, 216, 2**31**, 2**32**	**15**
Total Credits	30

Third and Fourth Years	
MATH 319	3
PHYS 301, 304, 3**31**, 328, 3**32**	**15**
12 credits chosen from: PHYS 303, 308, 314, 315, 324, 400, 401, 402, 407, 413, 418, **431, 432,** 474	**12**
6 credits chosen from: PHYS 303, 305, 308, 314, 315, 320, 321, 324, 360, 400, 401, 402, 407, 413, 418, **431, 432**, 448[5], 474	6
Electives[2,6]	**24**
Total Credits	60
Minimum credits for degree	120

[1] Minimum grade of 68% is required in each of PHYS 112 and PHYS 122.

[2] COSC 111 and 121 are strongly recommended. Students considering a career in geosciences should take EESC 111, 121, and 350. Students considering a career in astronomy should take ASTR 111 and 121. At least 18 credits (including the 6 credits in first-year English) must be Arts courses.

[3] **MATH 221 may be taken in the second term of the first year.**

[4] **MATH 317 may be taken in the third year.**

Second Year	
PHYS 200, 215, 216, 2~~19~~, ~~225~~, 2~~29~~[3]	~~18~~
MATH 200, 221[4], 225, 317[5]	12
Total Credits	30

Third and Fourth Years	
MATH 319	3
PHYS 301, 304, 3~~27~~, 328, 3~~29~~, ~~419, 429~~	~~15~~
~~9~~ credits chosen from: PHYS 303, 308, 314, 315, 324, 400, 401, 402, 407, 413, 418, 474	~~9~~
6 credits chosen from: PHYS 303, 305, 308, 314, 315, 320, 321, 324, 360, 400, 401, 402, 407, 413, 418, 448[6], 474	6
Electives[2,~~7~~]	~~27~~
Total Credits	60
Minimum credits for degree	120

[1] Minimum grade of 68% is required in each of PHYS 112 and PHYS 122.

[2] COSC 111 and 121 are strongly recommended. Students considering a career in geosciences should take EESC 111, 121, and 350. Students considering a career in astronomy should take ASTR 111 and 121. At least 18 credits (including the 6 credits in first-year English) must be Arts courses.

[3] Students should obtain better than the minimum passing mark in each of these Physics courses to continue in the Physics Major program.

[4] MATH 221 may be taken in the second term of the first year.

[5] ~~**MATH 317 may be taken in the third year.**~~

[5] Capable students are advised to consider selecting the directed studies course PHYS 448, which grants either 2, 3, 4, or 6 upper-level credits in Physics. Particularly well-qualified students should consider taking the Physics Honours Program (PHYS 449). Further information can be obtained from the Physics and Astronomy program advisor. [6] At least 36 of 120 credits must be Science course credits from courses numbered 300 or higher (upper-level courses), and at least an additional 6 upper-level courses which may be from Arts or Sciences.	~~6~~ Capable students are advised to consider selecting the directed studies course PHYS 448, which grants either 2, 3, 4, or 6 upper-level credits in Physics. Particularly well-qualified students should consider taking the Physics Honours Program (PHYS 449). Further information can be obtained from the Physics and Astronomy program advisor. [7] At least 36 of 120 credits must be Science course credits from courses numbered 300 or higher (upper-level courses), and at least an additional 6 upper-level courses which may be from Arts or Sciences.
[12259] Minor in Physics	**[12259] Minor in Physics**
[12263] A student must successfully complete 18 credits in Physics courses selected from PHYS 301, 303, 304, 305, 308, 314, 315, 320, **321,** 324, 3**31**, 328, 3**32**, 360, 400, 401, 402, 407, 418, 4**31**, 4**32**.	**[12263]** A student must successfully complete 18 credits in Physics courses selected from PHYS 301, 303, 304, 305, 308, 314, 315, 320, 324, 3~~27~~, 328, 3~~29~~, 360, 400, 401, 402, 407, 418, 4~~19~~, 4~~29~~.
[…]	[…]
	Type of Action: Replace requirement for PHYS 225 with a set list of courses. Remove PHYS 419/429 from requirements for the major. Increase number of courses required from “core” physics courses from 3 to 4. Add PHYS 321 to the list of course useable for the Physics minor. **Rationale:** The proposal is part of revision to the laboratory sequence and the second-year theory component of the physics major. The laboratory sequence is being reduced from six terms of labs starting in the second year to four while the content of the laboratories is being strengthened. Despite the condensing of the lab program, fewer courses are required of the majors and so an additional theory course is proposed.

	The second-year course PHYS 225 is being replaced with one of a list of courses. PHYS 225 is not a significant increase in sophistication beyond the first-year course in the same topics (PHYS 102 or 122) and the course can be replaced with no effect on the preparedness of students for upper division electives. The three additional courses are electives, demonstrating the breadth of applications and topics within modern physics. The choice is designed to introduce topics at the forefront of physics to physics majors. PHYS 321 is a new course added last year. The addition corrects an oversight and allows the course to be used for the Physics minor.

THE UNIVERSITY OF BRITISH COLUMBIA

Curriculum Proposal Form
New Course – Okanagan Campus

Category: 1

Faculty/School: FCCS **Department/Unit:** Critical Studies **Faculty/School Approval Date:** Feb 7, 2011 **Effective Session:** 2011W	**Date:** Jan. 21, 2011 **Contact Person:** Dr. Hussein Keshani **Phone:** 250.807.9770 **Email:** hussein.keshani@ubc.ca
Proposed Calendar Entry: **ARTH 115 (3) Popular Music and Visual Cultures** **A survey of changing attitudes towards class, ethnicity, gender, and ideology as reflected in folk, blues, jazz, rock and hip-hop music and their accompanying visual cultures from the early 20th century to the early 21st century. Credit will not be granted for both ARTH 115 and MUSC 115. [3-0-0]** ***Equivalency:* MUSC 115.** **MUSC 115 (3) Popular Music and Visual Cultures** A survey of **changing attitudes towards class, ethnicity, gender, and ideology as reflected in** folk, blues, jazz, rock, and hip-hop **music and their accompanying visual cultures** from the early 20th century to the **early 21st century**. **Credit will not be granted for both MUSC 115 and ARTH 115.** [3-0-0] ***Equivalency:* ARTH 115.**	**Draft Calendar URL:** N/A **Present Calendar Entry:** **MUSC 115 (3) Popular Music** A survey of folk, blues, jazz, rock, and hip-hop from the early twentieth century to the ~~**present**~~. [3-0-0] **Type of Action:** Add new course (ARTH 115), revise existing course (MUSC 115), and cross-list.

	Rationale: This new course and this revised course are part of the new offerings by a faculty member returning from administration to teaching. The description for MUSC 115 is being revised to reflect the course's new emphasis on visual culture and it's cross-listing with ARTH 115. These courses will expand course offerings for ARTH majors: ARTH majors will be able to take this course for credit towards their major.

THE UNIVERSITY OF BRITISH COLUMBIA

Curriculum Proposal Form
New Course – Okanagan Campus

Category: 1

Faculty/School: FCCS **Department/Unit:** Critical Studies **Faculty/School Approval Date:** Feb 7, 2011 **Effective Session:** 2011W	**Date:** Jan. 21, 2011 **Contact Person:** Dr. Hussein Keshani **Phone:** 250.807.9770 **Email:** hussein.keshani@ubc.ca
Proposed Calendar Entry: **ARTH 324 (3) Sound Art and Experimental Music** **A study of selected alternatives to formal compositions performed by skilled professionals, ranging from avant-garde experiments in noise and chance to sound art and audio-narrative for performances and installations. Credit will not be granted for both ARTH 324 and MUSC 324. [2-0-2]** ***Prerequisite*: Third-year standing.** ***Equivalency:* MUSC 324.** **MUSC 324 (3) Sound Art and Experimental Music** A study of selected alternatives to formal compositions performed by skilled professionals, ranging from avant-garde experiments in noise and chance to sound art and audio-narrative for performances and installations. **Credit will not be granted for both MUSC 324 and ARTH 324.** [2-0-2] *Prerequisite*: Third-year standing. ***Equivalency:* ARTH 324.**	**Draft Calendar URL:** N/A **Present Calendar Entry:** **MUSC 324 (3) Sound Art and Experimental Music** A study of selected alternatives to formal compositions performed by skilled professionals, ranging from avant-garde experiments in noise and chance to sound art and audio-narrative for performances and installations. [2-0-2] *Prerequisite:* Third-year standing. **Type of Action:** Add new course (ARTH 324), revise existing course (MUSC 324), and cross-list.

	Rationale: This new course and this revised course are part of the new offerings by a faculty member returning from administration to teaching. The cross-listing of MUSC 324 and ARTH 324 acknowledges that the content of MUSC 324 is suitable for credit towards an ARTH major: ARTH majors will be able to take MUSC 324 for credit towards their major.

THE UNIVERSITY OF BRITISH COLUMBIA

Curriculum Proposal Form
New Course – Okanagan Campus

Category: 1

Faculty/School: Creative and Critical Studies **Department/Unit:** Critical Studies **Faculty/School Approval Date:** Feb 7, 2011 **Effective Session:** 2011W	**Date:** **Contact Person:** Dr. David Jefferess **Phone:** 250-807-9359 **Email:** david.jefferess@ubc.ca
Proposed Calendar Entry: **CULT 490 (3/9) d Topics in Cultural Studies** **[3-0-0]**	**Draft Calendar URL:** N/A **Present Calendar Entry:** **Type of Action:** New course. **Rationale:** Creation of upper year special topics course to allow for courses to be taught by instructors who may have specialization in topics without current Calendar courses.

THE UNIVERSITY OF BRITISH COLUMBIA

Curriculum Proposal Form
New Course – Okanagan Campus

Category: 1

Faculty/School: Creative & Critical Studies **Department/Unit:** Critical Studies **Faculty/School Approval Date:** unknown **Effective Session:** 2011S	**Date:** November 22, 2010 **Contact Person:** F. Peña **Phone:** 250-807-8044 **Email:** francisco.pena@ubc.ca
Proposed Calendar Entry : **SPAN 305 (3): Hispanic Literature and Criticism I** **Overview of Spanish and Spanish-American literature, and introduction to literary criticism. Poetry and narrative. [3-0-0].** ***Corequisite*: SPAN 301.**	**Draft Calendar URL:** N/A **Present Calendar Entry:** N/A **Type of Action:** New course. **Rationale:** To provide the students a basic and comprehensive introduction to Spanish and Latin American literary texts and critical theory.

THE UNIVERSITY OF BRITISH COLUMBIA

Curriculum Proposal Form
New Course – Okanagan Campus

Category: 1

Faculty/School: Creative & Critical Studies **Department/Unit:** Critical Studies **Faculty/School Approval Date:** unknown **Effective Session:** 2011S	**Date:** November 22, 2010 **Contact Person:** M. Durán-Cogan **Phone:** 250-807-8044 **Email:** mduranco@ubc.ca
Proposed Calendar Entry : **SPAN 306 (3): Hispanic Literature and Criticism II** **Overview of Spanish and Spanish-American literature, and introduction to literary criticism. Theatre and literary non-fiction [3-0-0].** ***Corequisite:* SPAN 301.**	**Draft Calendar URL: N/A** **Present Calendar Entry: N/A** **Type of Action:** New course. **Rationale:** To provide the students a basic and comprehensive introduction to Spanish and Latin American literary texts and critical theory.

THE UNIVERSITY OF BRITISH COLUMBIA

Curriculum Proposal Form
New Course – Okanagan Campus

Category: 1

Faculty: Health and Social Development **Department:** Human Kinetics **Faculty Approval Date:** February 2011 **Effective Session:** 2011W	**Date:** December 2010 **Contact Person:** S. Stewart **Phone:** 250.807.9684 **Email:** sally.willis-stewart@ubc.ca
Proposed Calendar Entry: **HINT 523 (3) Nutrition for Health and Exercise Science** **A research and practice-based course examining current issues in nutrition and exercise sciences. [3-0-0]** ***Prerequisite*: Graduate standing and permission of the course instructor.**	**Draft Calendar URL:** N/A **Present Calendar Entry:** **Type of Action:** New course. **Rationale:** Due to the interdisciplinary nature of Human Kinetics and Health, and the relevancy of nutrition of health and exercise science, it is critical that graduate students are exposed to a breadth of nutrition-related research and knowledge in order to be able to apply it to their various fields of study. This course will provide depth in nutrition research and issues related to health and exercise science.

THE UNIVERSITY OF BRITISH COLUMBIA

Curriculum Proposal Form
New Course – Okanagan Campus

Category: 1

Faculty: Health and Social Development **Department:** Human Kinetics **Faculty Approval Date:** January 2011 **Effective Session:** 2011W	**Date:** December 2010 **Contact Person:** S. Stewart **Phone:** 250.807.9684 **Email:** sally.willis-stewart@ubc.ca
Proposed Calendar Entry: **HMKN 190 (3) Functional Anatomy and Applied Physiology I** **Structure and function of the neuromuscular and skeletal systems of the human body. Special emphasis on movement analysis and the physiological effects of exercise. [3-2-0]** ***Prerequisite*: Registration limited to students in the B.H.K. program.**	**Draft Calendar URL:** N/A **Present Calendar Entry:** **Type of Action:** New course. **Rationale:** Currently Human Kinetics students take a first-year Biology course (BIOL 131) on human anatomy and physiology. This course does not satisfy the depth of detail which Human Kinetics students need to know, especially in the area of musculoskeletal system with exercise applications. This course will better prepare students for upper-level courses in Human Kinetics. Further, addition of this course permits more accurate alignment with the UBC Vancouver campus Human Kinetics program and thus easier articulation for all transfer students (to either campus).

THE UNIVERSITY OF BRITISH COLUMBIA

Curriculum Proposal Form
New Course – Okanagan Campus

Category: 1

Faculty: Health and Social Development **Department:** Human Kinetics **Faculty Approval Date:** January 2011 **Effective Session:** 2011W	**Date:** December 2010 **Contact Person:** S. Stewart **Phone:** 250.807.9684 **Email:** sally.willis-stewart@ubc.ca
Proposed Calendar Entry: **HMKN 191 (3) Functional Anatomy and Applied Physiology II** **Structure and function of the digestive, endocrine, urinary, circulatory, and respiratory systems. Special emphasis on the effects of exercise. [3-2-0]** ***Prerequisite*: HMKN 190.** **Registration limited to students in the B.H.K. program.**	**Draft Calendar URL:** N/A **Present Calendar Entry:** **Type of Action:** New course. **Rationale:** Currently Human Kinetics students take a first-year Biology course (BIOL 133) on human anatomy and physiology. This course does not satisfy the depth or applicable information relevant to the field, nor does it consider exercise implications that are necessary for Human Kinetics students need to know in order to pursue upper level courses in Human Kinetics. Further, addition of this course permits more accurate alignment with the UBC Vancouver campus Human Kinetics program and thus easier articulation for all transfer students (to either campus).

THE UNIVERSITY OF BRITISH COLUMBIA

Curriculum Proposal Form
New Course – Okanagan Campus

Category: 1

Faculty: Health and Social Development **Department:** Human Kinetics **Faculty Approval Date:** January 2011 **Effective Session:** 2011W	**Date:** December 2010 **Contact Person:** S. Stewart **Phone:** 250.807.9684 **Email:** sally.willis-stewart@ubc.ca
Proposed Calendar Entry: **HMKN 315 (3) Sensory and Motor Neuroscience** **How single neurons and populations of neurons represent sensory information; how sensory signals are transformed and decoded to mediate perception; and how perceptual signals are converted into neural commands to initiate actions. [3-2-0]** ***Prerequisite*: HMKN 200 and third-year standing.**	**Draft Calendar URL:** N/A **Present Calendar Entry:** **Type of Action:** New course. **Rationale:** The mechanistic functioning of the human nervous system is an integral component of human evolutionary fitness. This course provides students a more comprehensive exposure to central and peripheral system function as it is exposed to exercise and environment.

THE UNIVERSITY OF BRITISH COLUMBIA

Curriculum Proposal Form
New Course – Okanagan Campus

Category: 1

Faculty: Health and Social Development **Department:** Human Kinetics **Faculty Approval Date:** January 2011 **Effective Session:** 2011W	**Date:** December 2010 **Contact Person:** S. Stewart **Phone:** 250.807.9684 **Email:** sally.willis-stewart@ubc.ca
Proposed Calendar Entry: **HMKN 421 (3) Advanced Theories of Health Behaviour Change** **Advanced theories in health and exercise psychology and their critical evaluation regarding utility for instilling and sustaining health behaviour change. [3-0-0]** ***Prerequisite*: All of HMKN 201, HMKN 321.**	**Draft Calendar URL:** N/A **Present Calendar Entry:** **Type of Action:** New course. **Rationale:** This course provides students a more advanced exposure to topics of behaviour changes as it relates to health-related behaviour and exercise in particular.