

THE UNIVERSITY OF BRITISH COLUMBIA



OKANAGAN SENATE SECRETARIAT

Enrolment Services
Senate and Curriculum Services

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April 27, 2011

To: Okanagan Senate
From: Curriculum Committee
Subject: April 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 and the revised program brought forward by the Faculties of Arts and Sciences, Creative and Critical Studies, and the College of Graduate Studies as set out in the attached proposals.*

For the Committee,
Dean Marvin Krank
Chair, Curriculum Committee

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April 27, 2011

To: Okanagan Senate
From: Curriculum Committee
Subject: April Curriculum Proposals (approval)

Enclosed please find the following for your consideration:

From the Faculty of Arts and Sciences

1. The following new courses:
 - a. COSC 407 (3) Introduction to Parallel Computing
 - b. MATH 339 (3) Introduction to Dynamical Systems

From the Faculty of Creative and Critical Studies

2. The following new courses:
 - a. CCS 200 (3/6) d Topics in Creative and Critical Studies
 - b. VISA 485 (3/6) d Directed Studies

From the College of Graduate Studies

3. The following new courses:
 - c. IGS 507 (3) Perspectives on Sustainability
 - d. IGS 570 (6) Practical Sustainability
4. The following revised program:
 - a. Interdisciplinary Graduate Studies, Program Requirements – Master's Degrees



THE UNIVERSITY OF BRITISH COLUMBIA

Curriculum Proposal Form New Course – Okanagan Campus

Category: 1

<p>Faculty: Arts & Sciences Unit: 4, Psychology & Computer Science Faculty Approval Date: March 1, 2011 Effective Session: 2011W</p>	<p>Date: 2011-01-20 Contact Person: Yves Lucet Phone: 250.807.9505 Email: yves.lucet@ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p><u>COSC 407 (3) Introduction to Parallel Computing</u> <u>Design and implementation of parallel programs including theoretical computer models, parallel architectures (distributed, multicore, GPU), and standard parallel libraries. [3-2-0]</u> <u>Prerequisite: Third-year standing. Prior programming experience is strongly recommended.</u></p>	<p>Draft Calendar URL: N/A</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New course</p> <p>Rationale: Apart for a brief introduction to Java threads, parallel computing is not covered in any computer science course at the UBC Okanagan campus, which is in sharp contrast with the growing availability of parallel computers. The course fills that gap and responds to student demand. It also provides another upper-year elective for computer science majors.</p> <p>The prerequisite requiring third-year standing is designed to allow students entry into the course even though they may not have taken a computer science course. This will allow students in physics, engineering, and other disciplines to take the course. Prior programming experience is recommended to be successful in the course. This experience may be obtained by the student based on their own work or from courses that have a programming component.</p>

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Curriculum Proposal Form New Course – Okanagan Campus

Category: 1

<p>Faculty: Arts & Sciences Unit: 5, Mathematics, Statistics & Physics Unit Approval Date: October 21, 2009 Faculty Approval Date: March 1, 2011 Effective Session: 2011W</p>	<p>Date: February 1, 2011 Contact Person: Sylvie Desjardins Phone: 250-807-8767 Email: sylvie.desjardins@ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p><u>MATH 339 (3) Introduction to Dynamical Systems</u> <u>Non-linear systems and iteration of functions; flows, phase portraits, periodic orbits, chaotic attractors, fractals, and invariant sets. [3-0-0]</u> <u>Prerequisite: All of MATH 200, MATH 225.</u></p>	<p>Draft Calendar URL: N/A</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New course.</p> <p>Rationale: The current course offering doesn't provide sufficient material for students in applied mathematics, or adequately prepare those wishing to pursue a graduate degree in the mathematical biology and differential equations concentration. A dedicated course on dynamical systems would not only give a better formation for mathematics students, it could also provide an attractive option for physics students.</p>



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Curriculum Proposal Form New Course – Okanagan Campus

Category: 1

<p>Faculty/School: FCCS Department/Unit: FCCS Faculty/School Approval Date: unknown Effective Session: 2011W</p>	<p>Date: February 3, 2011 Contact Person: Nancy Holmes Phone: 250.807.9369 Email: nancy.holmes@ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p><u>CCS 200 (3/6) d Topics in Creative and Critical Studies</u> <u>Examination of a topic from an interdisciplinary perspective. [3-0-0]</u> <u>Prerequisite: second-year standing.</u></p>	<p>Draft Calendar URL: N/A</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New course.</p> <p>Rationale: In order to further program integration and interdisciplinary faculty research, FCCS is creating a course that can be used to deliver interdisciplinary courses that take advantage of our various program areas and expertise. The course will vary depending on faculty interest and availability. Students should be permitted to take the course twice if the topics are different.</p>



THE UNIVERSITY OF BRITISH COLUMBIA

Curriculum Proposal Form New Course – Okanagan Campus

Category: 1

<p>Faculty/School: Faculty of Creative and Critical Studies Department/Unit: Creative Studies Faculty/School Approval Date: unknown Effective Session: 2011S</p>	<p>Date: February 26, 2011 Contact Person: Briar Craig Phone: 250.807.9765 Email: Briar.Craig@ubc.ca</p>
<p>Proposed Calendar Entry:</p> <p><u>VISA 485 (3/6) d Directed Studies</u> <u>Students will investigate a visual arts practice and complete a significant studio-based project.</u> <u>Prerequisite: Third-year standing in the B.F.A. program and permission of department and supervising faculty.</u></p>	<p>Draft Calendar URL: N/A</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: Introduction of an upper-level directed studies course in visual art practices.</p> <p>Rationale: A directed studies course in visual art will allow the program to offer students unique learning opportunities not normally covered within the context of the regular program curriculum.</p> <p>Credits earned can be used to satisfy part of the required 18 credits of 300-level VISA or the optional six credits of 300-level VISA electives.</p> <p>The VISA program will review applications for this course and grant registration to only the most qualified applicants.</p>



THE UNIVERSITY OF BRITISH COLUMBIA

Curriculum Proposal Form New Course – Okanagan Campus

Category: 1

<p>Faculty: College of Graduate Studies Department: Interdisciplinary Graduate Studies Faculty Approval Date: April 1, 2011 Effective Session: 2011W</p>	<p>Date: January 31, 2011 Contact Persons:</p> <p>Dr. Carol Scarff carol.scarff@ubc.ca 250.807.9177</p> <p>Dr. Daniel Keyes daniel.keyes@ubc.ca 250.807.9320</p>
<p>Proposed Calendar Entry:</p> <p><u>IGS 507 (3) Perspectives on Sustainability</u> <u>Examination of sustainability as a contested academic concept from diverse disciplinary and interdisciplinary perspectives. [3-0-3]</u> <u>Prerequisite: Graduate standing.</u> <u>Corequisite: IGS 570 recommended.</u></p>	<p>URL: N/A</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New course.</p> <p>Rationale: Interdisciplinarity and sustainability are cited in the 2005 Academic Plan: A Community of Excellence and by the 2010 Strategic Action Plan as central to the mission of UBC's Okanagan campus. This course is the logical and consistent response by the Interdisciplinary Graduate Studies (IGS) Sustainability theme to these strategic documents.</p>

	<p>IGS 507 will operate in conjunction with IGS 570 to offer a core set of courses for the IGS Sustainability theme and is viewed as an essential first step in the evolution of a robust graduate program built around the theme. To date the theme has lacked presence and identity, and it seems timely to respond to student demand in this way.</p> <p>Guidelines approved by the IGS program committee in the spring of 2010 insist that all IGS themes have core courses to anchor students as a cohort. This course aims to unite graduate students and faculty in an active, productive conversation about sustainability that sustains a community of scholars.</p> <p>IGS 507 enables graduate students to network with faculty participating in the theme and other graduate students to develop a nuanced and rigorous sense of sustainability that cuts across disciplines and Okanagan campus faculties in its many different forms. This course strives to avoid offering essentialist and generalized definitions of “sustainability” (e.g. the three pillar approach) and instead aims to demonstrate and engage with sustainability as an ongoing project open to definition in light of it occupying contested academic space. The course is structured via a delicate balance between offering basic conceptual underpinnings that circumscribe sustainability from a range of disciplinary perspectives and an eclectic mix of topics that speak to the breadth and richness of the concept without being prescriptive as to its essence. The challenge for students—a substantial one—is to find personal meaning and utility amongst the alternative perspectives.</p> <p>The course is led by a course coordinator who will participate fully in each of the two-week blocks taught by outstanding</p>
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	<p>researchers who will introduce a particular facet of sustainability. The course coordinator will create and mark assignments and nudge students to think critically and synthetically about the alternative perspectives on sustainability offered over the 13-week term.</p> <p>Students will be offered five two-week long discrete instructional blocks (6 hours of instructional time per block). Each of these blocks will offer a seminar led by an instructor from a discipline that is quite distinct from the other instructional blocks in the course. Students will read cutting edge articles selected and sometimes authored by the instructor for each two-week block. In the first week of each block (3 hours), the instructor provides a particular orientation to the concept of sustainability (e.g., an overview on the management of water resources and its linkage to global ecology) and in the second week of each two-week block (3 hours), the instructor provides a case study (e.g., an exploration of Okanagan water management). This approach ensures that students will garner a macro and micro understanding of sustainability as it is defined and practiced within one particular discipline or faculty.</p> <p>The two-week blocks are designed both as distinctive units, but they are meant to “talk” to each other, so students begin to question the limitation and strengths of any one disciplinary approach to sustainability. (e.g., an Indigenous definition of sustainability may on the surface seem incommensurable with an Economics’ perspective on sustainability; we hope students go further to consider linkages).</p> <p>Although this course proposal was developed by sustainability theme members and it is expected each year that the theme’s committee will select different</p>
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	two-week blocks for the course with the overarching idea of considering how these blocks “talk” to each other, ultimately unit and department Heads and Deans will determine participation by their faculty members in this course.
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Curriculum Proposal Form New Course – Okanagan Campus

Category: 1

<p>Faculty: College of Graduate Studies Department: Interdisciplinary Graduate Studies Faculty Approval Date: April 1, 2011 Effective Session: 2011W</p>	<p>Date: January 31, 2011 Contact Persons:</p> <p>Dr. Carol Scarff carol.scarff@ubc.ca 250.807.9177</p> <p>Dr. Daniel Keyes daniel.keyes@ubc.ca 250.807.9320</p>
<p>Proposed Calendar Entry:</p> <p><u>IGS 570 (6) Practical Sustainability</u> <u>Team-based research and practical project work on sustainability initiatives that engage various regional communities of practice.</u> <u>Prerequisite: Graduate standing.</u> <u>Corequisite: IGS 507.</u></p>	<p>URL: N/A</p> <p>Present Calendar Entry: N/A</p> <p>Type of Action: New course.</p> <p>Rationale: Rather than repeat the general rationale for IGS 507 here, this rationale speaks directly to the rationale for IGS 570 with the understanding that much that is written above underpins the rationale for this course as well.</p> <p>This course will operate in conjunction with IGS 507 to offer a core set of courses for the IGS sustainability theme.</p> <p>This course aims to see students apply their theoretical grasp on sustainability in real world settings where their research will have impact. If IGS 507 is about fostering a</p>

	<p>community of scholars on campus, IGS 570 is about exporting and testing that conversation to provide real world solutions to the challenges of sustainability.</p> <p>In terms of the type of projects that this course will support much will depend on the type of community-based and industry-based research that faculty members associated with the theme have running. The fall 2010 Art project in Woodhaven Regional District park by Nancy Holmes offers but one example of the possibilities this course will support.</p> <p>By June 1 of each year, the theme will approve projects for this course and post the projects on the IGS sustainability webpage.</p>
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THE UNIVERSITY OF BRITISH COLUMBIA

Curriculum Proposal Form Change to Program – Okanagan Campus

Category: 1

<p>Faculty/School: College of Graduate Studies Department/Unit: Interdisciplinary Graduate Studies Faculty/School Approval Date: unknown Effective Session: 2012S</p>	<p>Date: October 31, 2010 Contact Person: Dr. Daniel Keyes Phone: 250.807.9320 Email: daniel.keyes@ubc.ca</p>
<p>Proposed Calendar Entry: Homepage Faculties, Schools, and Colleges College of Graduate Studies Interdisciplinary Graduate Studies Program Requirements</p> <p><i>Program Requirements</i></p> <p>Master's Degree</p> <p>The minimum requirements for interdisciplinary master's programs are 30 credits in total. Some courses may be taken multiple times for credit at the discretion of the program. Specific courses applicable to the student's program must be approved by the program committee.</p> <p><u>For the Individualized program option, students must complete at least 3 credits from outside their supervisor's core program area.</u></p> <p><i>Research Methods and Analysis</i></p> <p>At least 6 credits from the following courses:</p>	<p>Draft Calendar URL: http://www.calendar.ubc.ca/okanagan/proof/edit/index.cfm?tree=18,285,898,1058</p> <p>Present Calendar Entry: Homepage Faculties, Schools, and Colleges College of Graduate Studies Interdisciplinary Graduate Studies Program Requirements</p> <p><i>Program Requirements</i></p> <p>Master's Degree</p> <p>The minimum requirements for interdisciplinary master's programs are 30 credits in total. Some courses may be taken multiple times for credit at the discretion of the program. Specific courses applicable to the student's program must be approved by the program committee.</p> <p><i>Research Methods and Analysis</i></p> <p>At least 6 credits from the following courses:</p> <ul style="list-style-type: none"> IGS 501, 503, 504, 505, 509, 515,

<ul style="list-style-type: none"> IGS 501, 503, 504, 505, 509, 515, or approved 500/600-level non-IGS courses in research methods and analysis. <p>Special Topics</p> <p>At least 6 credits from the following courses:</p> <ul style="list-style-type: none"> IGS 520, 523, 524, 529, 530, 539, 540, 549, 550, 559, 620, or approved 500/600-level non-IGS courses. <p>Master's Thesis</p> <p>At least 6 credits from the following course:</p> <ul style="list-style-type: none"> IGS 599 - Master's Thesis (6-18 credits, d). <p>Ph.D. Degree</p> <p>Students admitted to the Ph.D. program are expected to have a prior master's degree of similar depth as the IGS master's degree. In exceptional cases, students may be admitted directly to the Ph.D. program.</p> <p>The requirements for interdisciplinary Ph.D. programs are developed in consultation with and approved by the supervisor and program committee.</p> <p><u>For the Individualized program option, students must complete at least 3 credits from outside their supervisor's core program area.</u></p> <p>The minimum requirements are:</p> <ul style="list-style-type: none"> Advanced Research Methods and Analysis - at least 3 credits from the following courses: <ul style="list-style-type: none"> IGS 501, 503, 504, 505, 	<p>or approved 500/600-level non-IGS courses in research methods and analysis.</p> <p>Special Topics</p> <p>At least 6 credits from the following courses:</p> <ul style="list-style-type: none"> IGS 520, 523, 524, 529, 530, 539, 540, 549, 550, 559, 620, or approved 500/600-level non-IGS courses. <p>Master's Thesis</p> <p>At least 6 credits from the following course:</p> <ul style="list-style-type: none"> IGS 599 - Master's Thesis (6-18 credits, d). <p>Ph.D. Degree</p> <p>Students admitted to the Ph.D. program are expected to have a prior master's degree of similar depth as the IGS master's degree. In exceptional cases, students may be admitted directly to the Ph.D. program.</p> <p>The requirements for interdisciplinary Ph.D. programs are developed in consultation with and approved by the supervisor and program committee.</p> <p>The minimum requirements are:</p> <ul style="list-style-type: none"> Advanced Research Methods and Analysis - at least 3 credits from the following courses: <ul style="list-style-type: none"> IGS 501, 503, 504, 505, 509, 515, 601, or 500/600-
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<p>509, 515, 601, or 500/600-level non-IGS courses in research methods and analysis approved by the program committee;</p> <ul style="list-style-type: none"> • At least 9 credits from the following courses: <ul style="list-style-type: none"> ◦ IGS 520, 523, 524, 529, 530, 539, 540, 549, 550, 559, 620, or 500/600-level non-IGS courses approved by the program committee, with at least one term course from each of two disciplines; • Comprehensives determined by the supervisor and program committee in consultation with the student; • IGS 699 - Doctoral Thesis. 	<p>level non-IGS courses in research methods and analysis approved by the program committee;</p> <ul style="list-style-type: none"> • At least 9 credits from the following courses: <ul style="list-style-type: none"> ◦ IGS 520, 523, 524, 529, 530, 539, 540, 549, 550, 559, 620, or 500/600-level non-IGS courses approved by the program committee, with at least one term course from each of two disciplines; • Comprehensives determined by the supervisor and program committee in consultation with the student; • IGS 699 - Doctoral Thesis. <p>Type of Action: Amend degree requirement to ensure interdisciplinary students are taking courses that take them out of their supervisor's discipline into other disciplines.</p> <p>Rationale: To ensure IGS degrees meet a minimum standard of interdisciplinarity with the individualized option.</p> <p>The current language permits students to take all their course work with one professor in one area, which can hardly be called interdisciplinary.</p> <p>Where areas (e.g., computer science and physics) are prone to adhere to a disciplinary approach, they are encouraged to create a theme within IGS that at least brackets that more disciplinary approach off from truly interdisciplinary approaches that the degree is meant to support.</p>
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