THE UNIVERSITY OF BRITISH COLUMBIA | OKANAGAN

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8 April 2009

To: **Okanagan Senate**

From: **Senate 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 and revised courses and programs brought forward by the Faculties of Applied Science, Arts and Sciences, and Health and Social Development as set out in the attached proposals.***

Respectfully submitted,
Mr. Christopher Eaton
Acting Chair, Curriculum Committee

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To: **Okanagan Senate**

From: **Senate Curriculum Committee**

Subject: **March Curriculum Proposals**

Attached please find the following for your consideration:

Faculty of Applied Science

1. The following new courses:
    a. APSC 246 (3) System Dynamics
    b. APSC 248 (3) Engineering Analysis III

Faculty of Arts and Sciences

1. Revisions to the following courses:
    a. BIOC 304 (3) Molecular Biochemistry I
    b. BIOL 311 (3) Biochemistry I
    c. BIOL 366 (3) Molecular Genetics
    d. BIOC 493 (3) Biotechnology Laboratory I
    e. BIOL 493 (3) Biotechnology Laboratory I
    f. BIOL 363 (3) Integrative Development

2. The following new courses:
    g. BIOC 393 (3) Biochemistry Laboratory
    h. BIOL 393 (3) Biochemistry Laboratory
    i. BIOL 202 (3) Data Management and Analysis
    j. ECON 355 (3) International Trade
    k. ECON 356 (3) International Finance
    l. INDG 309 (3) Indigenous Perspectives on Health

3. The following new programs:
    m. B.Sc. Major and Honours in Zoology

Faculty of Health and Social Development

1. Revisions to the following programs:
    a. Suspension of Admission to the Health Studies Program
    b. Discontinuation of the Health and Sustainability Program Stream of the Health Studies Program

UBC Okanagan Curriculum Proposal Form
New or Change to Course or Program

Category: 1

Faculty/School: Engineering **Department/Unit:** N/A **Faculty/School Approval Date:** 11/02/09 **Effective Session:** 2009W	**Date:** February 11, 2009 **Contact Person:** Dwayne Tannant **Phone:** 250.807.8067 **Email:** dwayne.tannant@ubc.ca
Proposed Calendar Entry: **APSC 246 (3) System Dynamics** **Linear time invariant system, impulse response function, operator, convolution, system characterization, complex numbers, solution of linear ordinary differential equations, Laplace transform and its applications, transfer function, frequency response, matrix diagonalization, solution to system of linear differential equations. [3-0-1]** ***Prerequisite*: All of APSC 173, APSC 178, APSC 180, APSC 181.** **APSC 248 (3) Engineering Analysis III** **Multivariable functions, Lagrange multipliers; line integrals, surface integrals, volume integrals; divergence, curl, gradient; divergence and Stoke's theorems; engineering applications of vector field theory. Fourier series and transform; solutions to partial differential equations. [3-0-1]** ***Prerequisite*: All of APSC 173, APSC 178.**	**Draft Calendar URL:** N/A **Present Calendar Entry:** ~~**APSC 250 (6) Dynamic Systems Analysis**~~ ~~**Multivariable calculus, ordinary differential equations, matrices, step and impulse response; application to mechanical systems and electric circuits; phasors. [5-0-2]**~~ ~~***Prerequisite:* All of APSC 171, APSC 173, APSC 174.**~~ **Type of Action:** Discontinue APSC 250 and replace it with two new courses, APSC 246 and APSC 248. **Rationale:** Two new 3-credit courses, APSC 246 and APSC 248, are being proposed together to replace APSC 250, which was offered as a 6-credit course. APSC 250 will no longer be offered.

UBC Okanagan Curriculum Proposal Form
New or Change to Course or Program

Category: 1

Faculty: Arts and Sciences **Unit:** Unit 2:Biology and Unit 3:Chemistry **Faculty Approval Date:** March 3, 2009 **Effective Session:** 2009W	**Date:** January 15, 2009 **Contact Person:** Joyce Boon **Phone:** 250.807.9545 **Email:** joyce.boon@ubc.ca
Proposed Calendar Entry:	**Draft Calendar URL:** N/A **Present Calendar Entry:**
BIOC 304 (3) Molecular Biochemistry I Principles of thermodynamics and reaction kinetics in biochemistry. Acid/base biochemistry. An introduction to structural techniques, e.g., X-ray crystallography. Structure and function of lipids, amino acids, proteins, carbohydrates, nucleotides, and nucleic acids. Enzyme kinetics. Recombinant DNA technology. **[3-0-0]** *Prerequisite:* All of BIOL 200, CHEM 204 and one of CHEM 201, CHEM 210.	BIOC 304 (3) Molecular Biochemistry I Principles of thermodynamics and reaction kinetics in biochemistry. Acid/base biochemistry. An introduction to structural techniques, e.g., X-ray crystallography. Structure and function of lipids, amino acids, proteins, carbohydrates, nucleotides, and nucleic acids. Enzyme kinetics. Recombinant DNA technology. ~~**[3-2*-0]**~~ *Prerequisite:* All of BIOL 200, CHEM 204 and one of CHEM 201, CHEM 210.
BIOL 311 (3) Biochemistry I Protein, carbohydrate and lipid structure and metabolism. Energy production via glycolysis, oxidative phosphorylation, and photosynthesis. OUC equivalent: BIOL 311. Credit will not be granted for BIOL 311 for students with credit for BIOC 304 or BIOC 305. **[3-0-0]** *Prerequisite:* CHEM 204 and one of BIOL 200, BIOL 228.	BIOL 311 (3) Biochemistry I Protein, carbohydrate and lipid structure and metabolism. Energy production via glycolysis, oxidative phosphorylation, and photosynthesis. ~~**Laboratory component demonstrates techniques used in classical and molecular biochemistry and aspects of applied immunology.**~~ OUC equivalent: BIOL 311. Credit will not be granted for BIOL 311 for students with credit for BIOC 304 or BIOC 305. ~~**[3-4*-0]**~~ *Prerequisite:* CHEM 204 and one of BIOL 200, BIOL 228.
BIOL 366 (3) Molecular Genetics Stresses the principles of molecular biology techniques and their relevance to the study of all areas of biology. Gene expression, gene regulation, and development genetics. OUC equivalent: BIOL 366. **[3-0-0]** *Prerequisite:* BIOL 365.	BIOL 366 (3) Molecular Genetics Stresses the principles of molecular biology techniques and their relevance to the study of all areas of biology. Gene expression, gene regulation, and development genetics. ~~**The laboratory component will demonstrate current techniques in molecular genetics.**~~ OUC equivalent: BIOL 366. ~~**[3-4*-0]**~~ *Prerequisite:* BIOL 365.

	Type of Action: Remove the lab from these courses, and make a free-standing 3-credit laboratory course. **Rationale:** There are 3 major reasons for making this change: 1) The increasing number of students in Biology and Biochemistry are causing problems for scheduling the number of lab sections now required. Since Biology 311 is required for all Biology majors, and both BIOC 304 and BIOL 366 are required for all Biochemistry majors, we are presently offering 6 lab sections; this might increase to 8 shortly. With this proposal, while the students would still take the courses, the requirement for the lab would be limited to students who are majoring in Molecular, Cellular, and Developmental Biology; Microbiology; and Biochemistry. 2) Students transferring in from other post-secondary institutions rarely have a lab component to courses that are equivalent in lecture content. By making the lab a separate course, transfer credit will be more straightforward. 3) Students majoring in Chemistry need a Biochemistry course, but their schedules have so many labs already, that it is unreasonable to expect them to schedule yet another one. By removing the lab, we remove the need for Chemistry to put on another Biochemistry course.

UBC Okanagan Curriculum Proposal Form
New or Change to Course or Program

Category: 1

Faculty: Arts and Sciences **Unit:** Biology and Physical Geography **Faculty Approval Date:** March 3, 2009 **Effective Session:** 2009W	**Date:** January 14, 2009 **Contact Person:** M. Forrest and J. Boon **Phone:** 250.807.9560 and 250.807.9545 **Email:** mary.forrest@ubc.ca, joyce.boon@ubc.ca
Proposed Calendar Entry:	**Draft Calendar URL:** N/A **Present Calendar Entry:**
BIOC 493 (3) Biotechnology Laboratory I Current methods in biotechnology will be demonstrated, including **the use of** biotechnological techniques and tools in such areas as molecular biology, microbiology, **and** biochemistry. **[0-6*-0; 0-6*-0]** *Prerequisite:* BIOL 366. *Equivalency:* BIOL 493.	BIOC 493 (3) Biotechnology Laboratory I Current methods in biotechnology will be demonstrated ~~**via modules presented by faculty in their areas of specialization**~~, including biotechnological techniques and tools in such areas as molecular biology, microbiology, biochemistry~~**, immunology, and pharmacology**~~. ~~**[2-4-0]**~~ *Prerequisite:* BIOL 366. *Equivalency:* BIOL 493.
BIOL 493 (3) Biotechnology Laboratory I Current methods in biotechnology will be demonstrated, including **the use of** biotechnological techniques and tools in such areas as molecular biology, microbiology, **and** biochemistry. **[0-6*-0; 0-6*-0]** *Prerequisite:* BIOL 366. *Equivalency:* BIOC 493.	BIOL 493 (3) Biotechnology Laboratory I Current methods in biotechnology will be demonstrated ~~**via modules presented by faculty in their areas of specialization**~~ including biotechnological techniques and tools in such areas as molecular biology, microbiology, biochemistry, ~~**immunology, and pharmacology.**~~ [2-4-0] *Prerequisite:* BIOL 366. *Equivalency:* BIOC 493. ~~**BIOC 495 (3) Biotechnology Laboratory II**~~ ~~**Continuation of BIOC 493. [2-4-0]**~~ ~~***Prerequisite:* BIOC 493.**~~ ~~***Equivalency:* BIOL 495.**~~ ~~**BIOL 495 (3) Biotechnology Laboratory II**~~ ~~**Continuation of BIOL 493. [2-4-0]**~~ ~~***Prerequisite:* BIOL 493.**~~ ~~***Equivalency:* BIOC 495.**~~

	Type of Action: Discontinue BIOC 495 and BIOL 495. Change from offering sections every week to offering sections in alternating weeks. Combine content from BIOL/BIOC 493 and BIOL/BIOC 495 into one 3-credit, full-year course. **Rationale:** BIOL/BIOC 493 and BIOL/BIOC 495 are required courses for the Majors in Biochemistry, Microbiology, and Molecular Cell and Development. These programs are very popular and enrollment is increasing each year. We will need to increase to four lab sections next year and there is no lab space available, or freedom within program timetables, to do so. Moving to alternate week labs will allow us to run four lab sections every two weeks. The decrease in 3 credits caused by this change will be compensated for by the addition of 3 credits in the proposed changes in the BIOL 311/BIOL 366 / BIOC 304 labs (see attached). The biotechnology labs are currently taught by various faculty members in "module" format. These are very prep intensive modules and as the number of sections increase it will become too onerous for faculty to present modules over and above the rest of their teaching workload. The course will instead be taught by one faculty member with graduate student TA assistance. When available, guest presenters may demonstrate additional techniques that can no longer be performed by students due to the increased numbers in the course.

UBC Okanagan Curriculum Proposal Form
New or Change to Course or Program

Category: 1

Faculty: Arts and Sciences **Unit:** Biology and Physical Geography **Faculty Approval Date:** March 3, 2009 **Effective Session:** 2009W	**Date:** January 5, 2009 **Contact Person:** William Bates **Phone:** 250.807.9550 **Email:** william.bates@ubc.ca
Proposed Calendar Entry: BIOL 363 (3) **Integrative Development Introduction to epigenetic development. Explores temperature, gravity, biomechanics, nutrition, symbionts, predators, toxins and behaviour regulate developmental processes to produce phenotypic diversity in a wide variety of organisms**. OUC equivalent: BIOL 363. [3-0-0] *Prerequisite:* BIOL 263.	**Draft Calendar URL:** N/A **Present Calendar Entry:** BIOL 363 (3) ~~**Developmental Biology II Investigates current research and methodologies in developmental biology. Students will study the development of major systems of organisms in all kingdoms and be introduced to developmental genetics.**~~ OUC equivalent: BIOL 363. [3-0-0] *Prerequisite:* BIOL 263. **Type of Action**: New course title and new calendar entry for this existing course. **Rationale:** The proposed changes for this existing course would represent the actual course content.

UBC Okanagan Curriculum Proposal Form
New or Change to Course or Program

Category: 1

Faculty: Arts and Sciences **Unit:** Unit 2:Biology and Unit 3:Chemistry **Faculty Approval Date:** March 3, 2009 **Effective Session:** 2009W	**Date:** January 24, 2009 **Contact Person:** Joyce Boon **Phone:** 250.807.9545 **Email:** joyce.boon@ubc.ca
Proposed Calendar Entries: **BIOC 393 (3) Biochemistry Laboratory** **Topics include protein separation, enzyme kinetics, ELISA, DNA Ligation and Transformation, PCR, RFLP analysis, Agarose gel electrophoresis, STR and VNTR analysis, and gene regulation. [0-4*-0; 0-4*-0]** ***Prerequisite:* One of BIOL 200, BIOL 228 and CHEM 204.** ***Corequisite:* BIOC 304 and BIOL 366.** ***Equivalency:* BIOL 393.** **BIOL 393 (3) Biochemistry Laboratory** **Topics include protein separation, enzyme kinetics, ELISA, DNA Ligation and Transformation, PCR, RFLP analysis, Agarose gel electrophoresis, STR and VNTR analysis, and gene regulation. [0-4*-0; 0-4*-0]** ***Prerequisite:* One of BIOL 200, BIOL 228 and CHEM 204.** ***Corequisite:* BIOL 311 and BIOL 366. *Equivalency:* BIOC 393.**	**Draft Calendar URL:** N/A **Present Calendar Entry:** **Type of Action**: New lab courses. Remove the labs from BIOC 304/BIOL 311 and BIOL 366 and combine them to make a separate 3-credit lab course for Biochemistry majors, Microbiology majors, and Molecular, Cellular, and Developmental Biology (MCD) majors. **Rationale:** This change is being proposed for several reasons:

	1. Problems with articulation with other institutions. At present, we find that the majority of students who transfer to UBC Okanagan and who have taken a Biochemistry course, do not have a lab with the course. We can't give them transfer credit for that course because it is not equivalent. If the lecture material is equivalent, we exempt them from BIOL 311, but that is not an ideal solution if they want to major in Micro or MCD because then they miss the lab experience and have more difficulty with the lab that accompanies BIOL 366. In addition, most other institutions have a free-standing 3-credit lab course at third year in similar programs. 2. Cost of supplies for increasing numbers of students. As student numbers increase, the cost of running the labs is of course going up. Biochemistry labs are not inexpensive, and while they don't generally cost more than other labs, it would be difficult to reduce costs without sacrificing quality. 3. Lab space requirements. We now have 6 sections of the fall semester lab and 4 of the winter semester lab. The biochemistry lab can't easily accommodate more lab sections, and it is getting harder to find places in the timetable to fit in a 4-hour lab. 4. Faculty and staff resources. Without this change, we will need more faculty and technical help if the number of students continues to increase. We would like to move to having graduate student TA's for

	the course, which would help in staffing, but there are not infinite numbers of graduate students available with that expertise. 5. Giving Chemistry Majors a Biochemistry course without a lab. This change will also benefit Chemistry majors who will need a Biochemistry course to complete their chemistry degree when the degree program is changed to meet accreditation requirements. To ask these students to take yet another course with a lab, in a program that is already very lab intensive, is a problem. If the lab is separated from the lecture, then the students could take a one-semester biochemistry course that would not have a lab but which would satisfy the biochemistry requirement.

UBC Okanagan Curriculum Proposal Form
New or Change to Course or Program

Category: 1

Faculty: Arts and Sciences **Unit/Dept.:** Unit 2 **Faculty Approval Date:** February 3, 2009 **Effective Session:** 2009W	**Date:** April 30, 2008 **Contact Person:** Jason Pither **Phone:** 250.807.9629 **Email:** jason.pither@ubc.ca
Proposed Calendar Entry: **BIOL 202 (3) Data Management and Analysis** **Introduction to statistics, with emphasis on the application of commonly applied parametric and non-parametric statistical methods in the biological sciences. Use of computer software to manage data, conduct statistical analyses, and report findings in publishable formats. Credit will not be granted for both BIOL 202 and BIOL 304. [3-2-0]**	**Draft Calendar URL:** N/A **Present Calendar Entry:** ~~**BIOL 304 (3) Biometrics**~~ ~~**Introduction to statistical procedures for biological research. Estimation, hypothesis testing, goodness to fit, analysis of variance, and regression. The lab introduces computers and their use in graphical and statistical analysis. OUC equivalent: BIOL 300. [3-2-0]**~~ ~~***Prerequisite:* All of MATH 100, MATH 101 and third-year standing.**~~ **Type of Action**: Discontinue BIOL 304 and replace with new course, BIOL 202. **Rationale:** Many third- and fourth-year courses in Biology require that students be familiar with introductory statistics, yet many students do not take BIOL304 until it is too late. The proposed change should help to address this problem. The MATH prerequisites can be dropped because they are not necessary for students to learn how to apply statistics effectively (thanks in part to statistical software). Also, this kind of introductory stats course is offered in first year at many universities, hence the dropping of the third-year standing requirement. The name of the BIOL 304 course should be changed; "biometrics" has a new primary meaning in this post-9/11 era (identification through biological measurements such as fingerprints).

UBC Okanagan Curriculum Proposal Form
New or Change to Course or Program

Category: 1

Faculty: Arts and Sciences **Unit/Dept.:** Unit 6 **Faculty Approval Date:** March 3, 2009 **Effective Session:** 2009W	**Date:** February 13, 2009 **Contact Person:** Peter Wylie **Phone:** 250.807.9341 **Email:** peter.wylie@ubc.ca
Proposed Calendar Entry: **ECON 355 (3) International Trade** **The determinants of trade patterns, trade policy, tariff and non-tariff barriers to trade, political economy of protectionism, bilateral and multilateral trade disputes, trade liberalization, trade and development. Credit may be obtained for only one of ECON 355 and ECON 357. [3-0-0]** ***Prerequisite:*** **All of ECON 101, ECON 102.** **ECON 356 (3) International Finance** **Exchange rate policy regimes; international financial organizations; the interaction between monetary policy and exchange rate regimes; financial crises. Credit will be granted for only one of ECON 356 and the former ECON 345 (6); and only one of ECON 356 and ECON 357. [3-0-0]** ***Prerequisite:*** **All of ECON 101, ECON 102.**	**Draft Calendar URL:** N/A **Present Calendar Entry:** ~~**ECON 357 (3) International Economics**~~ ~~**Introduction to international trade and finance, emphasis on international economic policy, determinants of trade and balance of payments. Selected policy issues (may vary) include tariff/non-tariff barriers to trade, bilateral/multilateral trade disputes, trade liberalization, trade and development, capital mobility, political economy of protection, exchange rate policy. OUC equivalent: ECON 355. [3-0-0]**~~ ~~***Prerequisite:*** **All of ECON 101, ECON 102.**~~ **Type of Action:** Discontinue ECON 357 and create two new 3-credit courses, ECON 355 and ECON 356. **Rationale:** When upper-level courses were first offered at Okanagan College (later Okanagan University College) they were existing UBC courses: one of these was ECON 357: International Economics. In a major curriculum revision in 2003, the Department of Economics at UBC

	Vancouver rearranged the content of the course into ECON 355: International Trade, and ECON 356: International Finance. The first 6-week content of the ECON 357 International Economics course was expanded into 12-weeks of content in International Trade (ECON 355). The last 6-weeks of ECON 357 was amalgamated with content from ECON 345 to create a new 3-credit course, ECON 356: International Finance. The rationale for this proposal is to implement the 2003 UBC curriculum change here at UBC Okanagan. These new 3-credit courses for UBC Okanagan (ECON 355 and 356) exist at UBC Vancouver so we wish to introduce the same courses here with the same course numbers, descriptions and prerequisites. It is the norm in economics programs that international economics is taught in two 3-credit courses: International Trade (microeconomics) and International Finance (monetary- macroeconomics) and so this proposal allows the economics program at UBC Okanagan to conform to this norm.

UBC Okanagan Curriculum Proposal Form
New or Change to Course or Program

Category: 1

Faculty: Arts and Sciences **Unit/Dept.:** CCGS **Faculty Approval Date:** March 3, 2009 **Effective Session:** 2009W	**Date:** January 26, 2009 **Contact Person:** Mike Evans **Phone:** 250.807.9401 **Email:** mike.evans@ubc.ca
Proposed Calendar Entry: **INDG 309 (3) Indigenous Perspectives on Health** **Introduction to current thinking about Indigenous peoples' health, and especially Indigenous peoples' perspectives on health and contemporary health systems. Includes a critical examination of concepts of health within the context of ongoing processes of colonization. [3-0-0]** ***Prerequisite:*** **Third-year standing.**	**Draft Calendar URL:** N/A **Present Calendar Entry:** **Type of Action**: New course. **Rationale:** Reflects a growing interest and urgency around Indigenous Health issues. Complements other courses by focusing on Indigenous perspectives on health and health systems. The centrality of Indigenous perspectives distinguishes the course from those offered in other units.

UBC Okanagan Curriculum Proposal Form
New or Change to Course or Program

Category: 1

Faculty: Arts and Sciences **Department:** Unit 2, Biology **Faculty Approval Date:** February 25, '09 **Effective Session:** 2009W	**Date:** October 17, 2008 **Contact Person:** Dr. Scott D. Reid **Phone:** 250.807.8761 **Email:** scott.reid@ubc.ca
Proposed Calendar Entry: **Homepage > Faculties, Schools, and Colleges > Faculty of Arts and Sciences > Bachelor of Science Programs** Program Overview Admission Requirements Degree Requirements Program Requirements Co-operative Education Program Agroecology Biochemistry Biology Chemistry Computer Science (B.Sc.) Earth and Environmental Sciences Ecology and Evolutionary Biology Economics (B.Sc.) Environmental Chemistry Freshwater Science Mathematical Sciences Mathematics (B.Sc.) Microbiology Molecular, Cell, and Developmental Biology Physics and Astronomy Psychology (B.Sc.) **Zoology** General Science B.Sc.	**Draft Calendar URL:** http://okanagan.students.ubc.ca/calendar/proof/edit/index.cfm?tree=18,282,858,0 **Present Calendar Entry:** **Homepage > Faculties, Schools, and Colleges > Faculty of Arts and Sciences > Bachelor of Science Programs** Program Overview Admission Requirements Degree Requirements Program Requirements Co-operative Education Program Agroecology Biochemistry Biology Chemistry Computer Science (B.Sc.) Earth and Environmental Sciences Ecology and Evolutionary Biology Economics (B.Sc.) Environmental Chemistry Freshwater Science Mathematical Sciences Mathematics (B.Sc.) Microbiology Molecular, Cell, and Developmental Biology Physics and Astronomy Psychology (B.Sc.) General Science B.Sc.

ZOOLOGY

Major in Zoology

Graduates will obtain a solid grounding in a broad range of topics dealing with animal biology (physiology, ecology, developmental biology). This program emphasizes a comparative approach and provides students with a variety of practical experience and skills in laboratory and field work, computers, and communication. This program prepares students for graduate school and professional programs.

Requirements for the B.Sc. Major in Zoology:

First and Second Year	
BIOL 116, 125	6
MATH 100, 101	6
CHEM 111, 113; or CHEM 121, 123	6
PHYS 112, 122; or PHYS 102, 111	6
One of ENGL 112, 113	3
One of ENGL 150, 151, 153	3
BIOL 200	3
BIOL 202	3
BIOL 203	3
BIOL 204	3
BIOL 205	3
BIOL 263	3
CHEM 203, 204	6
Arts electives	6
Third and Fourth Year	
BIOL 308	3
BIOL 311	3
BIOL 354	3
BIOL 356	3
BIOL 364	3
BIOL 365	3
Zoology program electives:	24
24 credits of the following courses: BIOL 250, 306[1], 307, 319, 357, 363, 401, 417, 420[2], 422, 459, 460, 461[1], 467, PHYS 305	
Arts electives	6
Upper-level non-Biology Science	6
Upper-level electives	6
Total Credits:	120

[1] Offered in alternate years. Students must take care in planning their course selections.

[2] Course must be approved as appropriate by the Zoology Program Advisory Committee.

Honours in Zoology With the inclusion of a required research project, the student who completes this program will have demonstrated their ability for competent independent work. This experience is designed to prepare students for graduate school. The course requirements are the same as in the Major in Zoology, except that students must complete 6 credits of BIOL 440 in the Zoology elective component of the program, and the project must be appropriate for the Zoology degree. ADMISSION REQUIREMENTS - Fourth-year standing; - a minimum grade average of 75% over all courses completed; and - enrolment in BIOL 440 with a research project and research supervisor approved by the Head. GRADUATION REQUIREMENTS - completion of the course requirements for the Major in Zoology; - a 75% overall grade average; and - BIOL 440 (6 credits), with a minimum grade of 75%. A written thesis is required, with a public presentation in the form of a poster session or a seminar.	**Type of Action:** New B.Sc. Major and Honours Program in Zoology. **Rationale:** At a time when UBC Okanagan is particularly interested in attracting and maintaining excellent students, this programming option will increase the likelihood of bringing in and retaining the best students. Informal surveys of current and graduating Biology Majors have indicated that they would have been interested in a Major in Zoology, or Honours in Zoology had it been available. Due to student interest in a program in Animal Biology, we have structured a Majors/Honours program in Zoology, which can offer students a broad comparative examination of animal biology with emphasis in the areas of physiology, morphology, developmental biology, and ecology. While most Biology departments at undergraduate and research intensive universities currently offer Majors/Honours in Animal Biology or Zoology, UBC Okanagan does not. As a consequence, students interested in Animal Biology who would attend UBC Okanagan now go to other institutions, or to our sister campus in Vancouver for their Major in Animal Biology program. The Honours option will give students interested in pursuit of

	graduate studies in Animal Biology an advantage. Having already completed an undergraduate research project to demonstrate their competency for research, they will be more competitive for graduate school acceptance and for competitive funding. This program will advance the Irving K. Barber School of Arts and Sciences mandate to increase undergraduate participation in research. It will encourage undergraduates to take advantage of both internal and external research funding opportunities. Currently, Integrated Animal Biology is the highest funded of NSERC's Research Grant Selection Committees in the area of Life Sciences. This attests to the value that the Canadian government places on the training of highly qualified personnel in the area of Animal Biology/Zoology. The recent addition of new faculty with expertise in comparative animal physiology, molecular biology, and teaching competencies in both Invertebrate and Vertebrate zoology, in conjunction with an existing suite of courses in physiology, ecology, and developmental biology make this the opportune time to expand our undergraduate major offerings in Biology to include a Major/Honours in Zoology. While increasing costs and continually dwindling budgets often constrain program development, we have successfully structured what we believe to be a competitive and novel Majors/Honours in Zoology that will not impose financial constraints on the existing Unit 2 budget. This will be achieved through careful course and degree planning and the allocation of existing course offerings.

UBC Okanagan Curriculum Proposal Form
New or Change to Course or Program

Category: 1

Faculty: Health and Social Development **Department:** Health Studies **Faculty Approval Date:** March 6, 2009 **Effective Session:** 2009W	**Date:** February 26, 2009 **Contact Person:** Acting Dean Kathy Rush **Phone:** 250.807.9902 **Email:** kathy.rush@ubc.ca
Proposed Calendar Entry: ***Faculties, Schools, and Colleges*** Homepage > Faculties, Schools, and Colleges > Faculty of Health and Social Development > Bachelor of Arts in Health Studies Program > Introduction **Note: this program will not accept applications for admission for 2009/10. Applications for admission are expected to be considered for 2010/11. For more information, please contact the Faculty of Health and Social Development.** **[14341]** Health Studies is an exciting new interdisciplinary degree focused on the emerging fields of health services research and evidence-based health and social policy. The program offers an in-depth examination of the nature and scope of health and health care issues facing Canadian society, and analytic tools to formulate innovative and sustainable solutions. Curricular themes include determinants of health, health promotion, health policy, and sustainability at the global, national, and local levels. **[14342]** The program develops knowledge and skills related to health care management, health services research, and enhancing the foundations of a healthy society. Health Studies at UBC Okanagan promotes a practice-relevant approach that draws heavily on social and health sciences. **[14343]** The B.A.H.S. is a 120-credit degree program, with third- and fourth-year	**Draft Calendar URL:** http://okanagan.students.ubc.ca/calendar/proof/edit/index.cfm?tree=18,286,1012,1234 **Present Calendar Entry:** ***Faculties, Schools, and Colleges*** Homepage > Faculties, Schools, and Colleges > Faculty of Health and Social Development > Bachelor of Arts in Health Studies Program > Introduction **[14341]** Health Studies is an exciting new interdisciplinary degree focused on the emerging fields of health services research and evidence-based health and social policy. The program offers an in-depth examination of the nature and scope of health and health care issues facing Canadian society, and analytic tools to formulate innovative and sustainable solutions. Curricular themes include determinants of health, health promotion, health policy, and sustainability at the global, national, and local levels. **[14342]** The program develops knowledge and skills related to health care management, health services research, and enhancing the foundations of a healthy society. Health Studies at UBC Okanagan promotes a practice-relevant approach that draws heavily on social and health sciences. **[14343]** The B.A.H.S. is a 120-credit degree program, with third- and fourth-year

concentrations in Health Policy and Evaluation and Health and Sustainability.	concentrations in Health Policy and Evaluation and Health and Sustainability.
[14344] UBC Okanagan's B.A.H.S. program emphasizes interdisciplinary and interprofessional approaches to the study of health-related social and organizational phenomena. Students will participate in case-studies and inquiry-based learning, individual and group activities, and community projects. The curriculum includes core, concentration, and elective courses, giving students common foundational knowledge as well as the opportunity to complement their choice of specialization with courses of personal interest.	**[14344]** UBC Okanagan's B.A.H.S. program emphasizes interdisciplinary and interprofessional approaches to the study of health-related social and organizational phenomena. Students will participate in case-studies and inquiry-based learning, individual and group activities, and community projects. The curriculum includes core, concentration, and elective courses, giving students common foundational knowledge as well as the opportunity to complement their choice of specialization with courses of personal interest.
[14345] Graduates will find local, national, and international work within health, social service, and government organizations; pursue graduate studies; or enter health professions.	**[14345]** Graduates will find local, national, and international work within health, social service, and government organizations; pursue graduate studies; or enter health professions.
	Draft Calendar URL: http://okanagan.students.ubc.ca/calendar/proof/edit/index.cfm?tree=18,286,1012,1235
Proposed Calendar Entry:	**Present Calendar Entry:**
Faculties, Schools, and Colleges Homepage > Faculties, Schools, and Colleges > Faculty of Health and Social Development > Bachelor of Arts in Health Studies Program > Admission Requirements	***Faculties, Schools, and Colleges*** Homepage > Faculties, Schools, and Colleges > Faculty of Health and Social Development > Bachelor of Arts in Health Studies Program > Admission Requirements
Note: this program will not accept applications for admission for 2009/10. Applications for admission are expected to be considered for 2010/11. For more information, please contact the Faculty of Health and Social Development.	
[14346] Application for admission to the B.A.H.S. must be made through Enrolment Services. Due to enrolment limitations, the academic standing required for admission may be higher than the published University minimum, and not every qualified applicant will be offered admission.	**[14346]** Application for admission to the B.A.H.S. must be made through Enrolment Services. Due to enrolment limitations, the academic standing required for admission may be higher than the published University minimum, and not every qualified applicant will be offered admission.
[14347] Admission from Secondary School	**[14347] Admission from Secondary School**

[14348] Procedures, policies, and admission requirements to UBC Okanagan and the Health Studies program are specified in "Admission to UBC Okanagan." Applicants must present successful completion of Principles of Mathematics 11 or the equivalent.	**[14348]** Procedures, policies, and admission requirements to UBC Okanagan and the Health Studies program are specified in "Admission to UBC Okanagan." Applicants must present successful completion of Principles of Mathematics 11 or the equivalent.
[14349] **Admission from Post-Secondary Institutions**	**[14349]** **Admission from Post-Secondary Institutions**
[14350] Transfer students who have completed transferable coursework at another accredited post-secondary institution will be considered for admission. The minimum academic standing to qualify for admission to the University as a transfer student is successful completion of 24 transferable credits. A minimum grade point average (GPA) of 2.0 (on a 4.0 scale) is required to be considered for admission, although a higher competitive average may be required. Academic standing is based on the average on all college or university courses attempted, including failures and repeated courses. In the case of applicants with more than 30 credits of prior study, the admission average is calculated on the basis of the most recently completed 30 credits.	**[14350]** Transfer students who have completed transferable coursework at another accredited post-secondary institution will be considered for admission. The minimum academic standing to qualify for admission to the University as a transfer student is successful completion of 24 transferable credits. A minimum grade point average (GPA) of 2.0 (on a 4.0 scale) is required to be considered for admission, although a higher competitive average may be required. Academic standing is based on the average on all college or university courses attempted, including failures and repeated courses. In the case of applicants with more than 30 credits of prior study, the admission average is calculated on the basis of the most recently completed 30 credits.
[14351] Transfer applicants should present transfer credit in mathematics. If an applicant is not able to fulfill this requirement at the post-secondary level, it must be fulfilled at the high school level. Students with unsatisfactory standing or who have been required to withdraw from another post-secondary institution will not be considered for admission.	**[14351]** Transfer applicants should present transfer credit in mathematics. If an applicant is not able to fulfill this requirement at the post-secondary level, it must be fulfilled at the high school level. Students with unsatisfactory standing or who have been required to withdraw from another post-secondary institution will not be considered for admission.
…	…
	Draft Calendar URL: http://okanagan.students.ubc.ca/calendar/proof/edit/index.cfm?tree=18,286,1012,1234
Proposed Calendar Entry:	**Present Calendar Entry:**
Admission to UBC Okanagan	***Admission to UBC Okanagan***
Homepage > Admission to UBC Okanagan > Application and Document Deadlines	**Homepage > Admission to UBC Okanagan > Application and Document Deadlines**
[15031] For other important University dates, see Dates and Deadlines.	**[15031]** For other important University dates, see Dates and Deadlines.
[15028] These deadlines are the latest dates on which an application or document will be	**[15028]** These deadlines are the latest dates on which an application or document will be

accepted. Processing of applications does begin before these dates and, in some cases, programs may be filled by well-qualified students before the document deadlines. If a deadline falls on the weekend, it will be extended to the next working day.

[15029] Generally, undergraduate applications are due February 28 and the document deadline is June 30, unless otherwise noted.

[15030] The following information applies to both domestic and international students. For Non-Degree Studies (Visitor, Unclassified, Concurrent), the application deadline is June 30; document deadline is July 15. The deadline to submit interim transcripts for post-secondary transfer students is February 28.

Program	Credential	Faculty/School	Application Deadline	Document Deadline
Applied Science (Engineering)	B.A.Sc.	Applied Science	Feb 28	Jun 30
Arts	B.A.	Arts and Sciences	Feb 28	Jun 30
Education	B.Ed.	Education	Feb 28	Jun 5
Fine Arts[1]	B.F.A	Creative and Critical Studies	Feb 28	Jun 30
Health Studies[2]	B.A.H.S.	Health and Social Development	Feb 28	Jun 30
Human Kinetics	B.H.K.	Health and Social Development	Feb 28	Jun 30
Management	B.Mgt.	Management	Feb 28	Jun 30
Nursing	B.S.N.	Nursing	Feb 28	Jun 30
Pre-Pharmacy	N/A	Arts and Sciences	Feb 28	Jun 30
Science	B.Sc.	Arts and Sciences	Feb 28	Jun 30
Social Work[3]	B.S.W.	Social Work	Feb 28	Jun 30

[1] A portfolio is required and is due on March 31.

[2] Not accepting applications for admission for 2009/10.

[3]A supplemental application is required and is due on February 28.

accepted. Processing of applications does begin before these dates and, in some cases, programs may be filled by well-qualified students before the document deadlines. If a deadline falls on the weekend, it will be extended to the next working day.

[15029] Generally, undergraduate applications are due February 28 and the document deadline is June 30, unless otherwise noted.

[15030] The following information applies to both domestic and international students. For Non-Degree Studies (Visitor, Unclassified, Concurrent), the application deadline is June 30; document deadline is July 15. The deadline to submit interim transcripts for post-secondary transfer students is February 28.

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Arts	B.A.	Arts and Sciences	Feb 28	Jun 30
Education	B.Ed.	Education	Feb 28	Jun 5
Fine Arts[1]	B.F.A	Creative and Critical Studies	Feb 28	Jun 30
Health Studies	B.A.H.S.	Health and Social Development	Feb 28	Jun 30
Human Kinetics	B.H.K.	Health and Social Development	Feb 28	Jun 30
Management	B.Mgt.	Management	Feb 28	Jun 30
Nursing	B.S.N.	Nursing	Feb 28	Jun 30
Pre-Pharmacy	N/A	Arts and Sciences	Feb 28	Jun 30
Science	B.Sc.	Arts and Sciences	Feb 28	Jun 30
Social Work[2]	B.S.W.	Social Work	Feb 28	Jun 30

[1] A portfolio is required and is due on March 31.

[2]A supplemental application is required and is due on February 28.

Draft Calendar URL:
http://okanagan.students.ubc.ca/calendar/proof/edit/index.cfm?tree=2,22,68,0

Present Calendar Entry (with proposed changes noted):

Admission to UBC Okanagan

Homepage > Admission to UBC Okanagan > Applicants Following the BC/Yukon High School Curriculum > Specific Program Requirements for Applicants Following the BC/Yukon Secondary School Curriculum

[334] This table shows the required courses used in the calculation of the admission average for specific programs, as well as courses that are required but are not used in the calculation of the average.

Program	Degree	Faculty/School	Average Calculated on the Following Required Courses or IB/AP Equivalents	Courses Required but Not Included in the Calculation of the Average
Agroecology[1]	B.Sc. (Agroecology)	*Arts and Sciences*	English 12 or English 12 First Peoples; Principles of Mathematics 12; One of Biology 12, Chemistry 12, Geology 12, or Physics 12; One other approved examinable Grade 12 course	Two of: Biology 11, Chemistry 11, or Physics 11
Arts	B.A.	*Arts and Sciences*	English 12 or English 12 First Peoples; Three other approved provincially examinable Grade 12 courses	
Engineering	B.A.Sc.	*Applied Science*/*Engineering*	English 12 or English 12 First Peoples; Chemistry 12; Principles of Mathematics 12; Physics 12	Chemistry 11; Physics 11; Principles of Mathematics 11
Fine Arts	B.F.A.	*Creative and Critical Studies*	English 12 or English 12 First Peoples; Three other provincially examinable courses; Portfolio	
Health Studies [2]	B.A.H.S.	*Health and Social Development*	English 12 or English 12 First Peoples; Three other approved provincially examinable courses	Principles of Mathematics 11
Human Kinetics	B.H.K.	*Health and Social Development*	English 12 or English 12 First Peoples; One of: Principles of Mathematics 12, Biology 12, Chemistry 12, Geology 12, or Physics 12; Two other approved provincially examinable	Principles of Mathematics 11; One of: Biology 11, Chemistry 11, or Physics 11

			Grade 12 courses	
Management	B.Mgt.	*Management*	English 12 or English 12 First Peoples; Principles of Mathematics 12; Two other provincially examinable courses	Principles of Mathematics 11
Nursing	B.S.N.	*Health and Social Development*/*Nursing*	English 12 or English 12 First Peoples; Biology 12; Two other approved examinable Grade 12 courses	Chemistry 11; Principles of Mathematics 11
Pre-Pharmacy	N/A	*Arts and Sciences*	English 12 or English 12 First Peoples; Principles of Mathematics 12 (min. 67%); Two other provincially examinable courses including at least one of: Biology 12, Chemistry 12, Geology 12, or Physics 12	Chemistry 11; Physics 11; Principles of Mathematics 11
Science	B.Sc.	*Arts and Sciences*	English 12 or English 12 First Peoples; Principles of Mathematics 12 (min. 67%); Two other examinable Grade 12 courses including at least one of: Biology 12, Chemistry 12, Geology 12, Geography 12, or Physics 12	Chemistry 11

[1] This program is currently under review and is not admitting students for 2009/10. For more information, please contact the Faculty of Arts and Sciences.

[2] This program is currently under review and is not admitting students for 2009/10. For more information, please contact the Faculty of Health and Social Development.

Type of Action: Suspend admission to the Bachelor of Arts in Health Studies Program while the program is under review.

Rationale: A number of factors have contributed to the decision to put admission of Health Studies students on hold for a temporary period. These include:

i) Need for a re-evaluation of program demand;
ii) Need to realign program with realities of the marketplace;
iii) Lack of resources.

Currently an extensive review of the program is being undertaken and the outcome of this review will provide future direction for program planning. There is a plan in place to accommodate all existing students in the program.

UBC Okanagan Curriculum Proposal Form
New or Change to Course or Program

Category: 1

Faculty: Health and Social Development **Department:** Health Studies **Faculty Approval Date:** March 17, 2009 **Effective Session:** 2009W	**Date:** March 17, 2009 **Contact Person:** Alan Davidson **Phone:** 250.807.9969 **Email:** alan.davidson@ubc.ca
Proposed Calendar Entry: **Homepage > Faculties, Schools, and Colleges > Faculty of Health and Social Development > Bachelor of Arts in Health Studies Program > Introduction** **[14341]** Health Studies is an exciting new interdisciplinary degree focused on the emerging fields of health services research and evidence-based health and social policy. The program offers an in-depth examination of the nature and scope of health and health care issues facing Canadian society, and analytic tools to formulate innovative and sustainable solutions. Curricular themes include determinants of health, health promotion, health policy, and sustainability at the global, national, and local levels. **[14342]** The program develops knowledge and skills related to health care management, health services research, and enhancing the foundations of a healthy society. Health Studies at UBC Okanagan promotes a practice-relevant approach that draws heavily on social and health sciences. **[14343]** The B.A.H.S. is a 120-credit degree program, with **a** third- and fourth-year **concentration** in Health Policy and Evaluation. **[14344]** UBC Okanagan's B.A.H.S. program emphasizes interdisciplinary and interprofessional approaches to the study of health-related social and organizational phenomena. Students will participate in case-studies and inquiry-based learning, individual and group activities, and community projects.	**Draft Calendar URL:** http://okanagan.students.ubc.ca/calendar/proof/edit/index.cfm?tree=18,286,1012,1234 **Present Calendar Entry:** **Homepage > Faculties, Schools, and Colleges > Faculty of Health and Social Development > Bachelor of Arts in Health Studies Program > Introduction** **[14341]** Health Studies is an exciting new interdisciplinary degree focused on the emerging fields of health services research and evidence-based health and social policy. The program offers an in-depth examination of the nature and scope of health and health care issues facing Canadian society, and analytic tools to formulate innovative and sustainable solutions. Curricular themes include determinants of health, health promotion, health policy, and sustainability at the global, national, and local levels. **[14342]** The program develops knowledge and skills related to health care management, health services research, and enhancing the foundations of a healthy society. Health Studies at UBC Okanagan promotes a practice-relevant approach that draws heavily on social and health sciences. **[14343]** The B.A.H.S. is a 120-credit degree program, with third- and fourth-year ~~**concentrations**~~ in Health Policy and Evaluation ~~**and Health and Sustainability**~~. **[14344]** UBC Okanagan's B.A.H.S. program emphasizes interdisciplinary and interprofessional approaches to the study of health-related social and organizational phenomena. Students will participate in case-studies and inquiry-based learning, individual and group activities, and community projects.

The curriculum includes core, concentration, and elective courses, giving students common foundational knowledge as well as the opportunity to complement their choice of specialization with courses of personal interest.

[14345] Graduates will find local, national, and international work within health, social service, and government organizations; pursue graduate studies; or enter health professions.

Proposed Calendar Entry:

Homepage > Faculties, Schools, and Colleges > Faculty of Health and Social Development > Bachelor of Arts in Health Studies Program > Degree Requirements

[14354] The B.A.H.S. is a 120-credit undergraduate degree. In addition to the general academic policies and regulations set out in "Policies and Regulations," students must complete the following degree requirements:

…

[14357] In completing the above, all Health Studies students must complete the following core courses and one of two program streams:

Core Courses	
HMKN 100	Healthy Lifestyles (3 credits)
HEAL 100	Introduction to Health Studies (3 credits)
HEAL 200	Determinants of Health (3 credits)
HEAL 201	Canadian Health Care System (3 credits)
HEAL 213	Health and Social Policy in Canada (3 credits)
HEAL 300	Methods of Data Analysis (3 credits)
HEAL 301	Health Research Methods (3 credits)
HEAL 303	Health Program Evaluation (3 credits)

The curriculum includes core, concentration, and elective courses, giving students common foundational knowledge as well as the opportunity to complement their choice of specialization with courses of personal interest.

[14345] Graduates will find local, national, and international work within health, social service, and government organizations; pursue graduate studies; or enter health professions.

Draft Calendar URL:

http://okanagan.students.ubc.ca/calendar/proof/edit/index.cfm?tree=18,286,1012,1236

Present Calendar Entry:

Homepage > Faculties, Schools, and Colleges > Faculty of Health and Social Development > Bachelor of Arts in Health Studies Program > Degree Requirements

[14354] The B.A.H.S. is a 120-credit undergraduate degree. In addition to the general academic policies and regulations set out in "Policies and Regulations," students must complete the following degree requirements:

…

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Core Courses	
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HEAL 300	Methods of Data Analysis (3 credits)
HEAL 301	Health Research Methods (3 credits)
HEAL 303	Health Program Evaluation (3 credits)

HEAL 401	Health Leadership and Effecting Change (3 credits)
HEAL 450	Health Studies Practicum (3 credits)

[14360] Health Policy and Evaluation Program Stream

[14358] Students concentrating in the Health Policy and Evaluation program stream must, in addition to the core courses, also complete:

HEAL 302	Health Policy and Politics (3 credits)
HEAL 313	Health Economics (3 credits)
HEAL 404	Sustainability and Health Care Reform (3 credits)

[14359] Health Policy and Evaluation students must also complete a minimum of 6 credits from the following list of courses:

HEAL 307	Global Health Trends and Local Impacts (3 credits)
HEAL 308	Health Law (3 credits)
HEAL 403	Public Health, Ethics, and Human Rights (3 credits)
HEAL 495	Topics in Health Studies (3 credits)

HEAL 401	Health Leadership and Effecting Change (3 credits)
HEAL 450	Health Studies Practicum (3 credits)

[14360] Health Policy and Evaluation Program Stream

[14358] Students concentrating in the Health Policy and Evaluation program stream must, in addition to the core courses, also complete:

HEAL 302	Health Policy and Politics (3 credits)
HEAL 313	Health Economics (3 credits)
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HEAL 307	Global Health Trends and Local Impacts (3 credits)
HEAL 308	Health Law (3 credits)
HEAL 403	Public Health, Ethics, and Human Rights (3 credits)
HEAL 495	Topics in Health Studies (3 credits)

~~[14361] Health and Sustainability Program Stream~~

~~**[14362] Students concentrating in the Health and Sustainability program stream must, in addition to the core courses, also complete:**~~

~~**HEAL 304**~~	~~**Healthy and Sustainable Communities (3 credits)**~~
~~**HEAL 307**~~	~~**Global Health Trends and Local Impacts (3 credits)**~~
~~**HEAL 400**~~	~~**Reducing Health Disparities Among Vulnerable Populations (3 credits)**~~

~~**[14363] Health and Sustainability students must also complete a minimum of 6 credits from the following list of courses:**~~

	~~HEAL 305~~ ~~Healthy Aging (3 credits)~~
	~~HEAL 306~~ ~~Indigenous Peoples and Health (3 credits)~~
	~~HEAL 403~~ ~~Public Health, Ethics, and Human Rights (3 credits)~~
	~~HEAL 495~~ ~~Topics in Health Studies (3 credits)~~
[14364] Minors	**[14364] Minors**
[14365] Students completing the B.A.H.S. may also complete a Minor in Arts (e.g., Women's studies, Indigenous studies, Psychology, Sociology, etc.) or Science (e.g., Biology, Chemistry). A Minor in Aging, Health, and Society is also available.	**[14365]** Students completing the B.A.H.S. may also complete a Minor in Arts (e.g., Women's studies, Indigenous studies, Psychology, Sociology, etc.) or Science (e.g., Biology, Chemistry). A Minor in Aging, Health, and Society is also available.
…	…
	Type of Action: Discontinue the Health and Sustainability Program Stream.
	Rationale: This stream has never been offered and it is unlikely that it will be in the future. We would like to discontinue the stream.