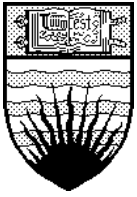


THE UNIVERSITY OF BRITISH COLUMBIA



November 30, 2007

CURRICULUM COMMITTEE

Vancouver Senate

2016 - 1874 East Mall

Vancouver, B.C. Canada V6T 1Z1

Tel: (604) 822-9952 Fax: (604) 822-5945

christopher.eaton@ubc.ca

To: Senate
From: Curriculum Committee

Re: December Curriculum Proposals and Comments on Certificate
Consultation Processes

a) December Curriculum Proposals

The Senate Curriculum Committee has reviewed the material forwarded to it by the faculties, and encloses those proposals it deems as ready for approval. As such, the following is recommended to Senate:

“That the new and changed courses and programs brought forward by the Faculties of Applied Science, Arts, Graduate Studies (Faculty of Arts), Law and Science be approved.”

b) Certificate Consultation Processes

Further, the Committee has discussed the issue regarding consultation for certificate programs raised by the Senator for the Faculty of Science at the last meeting of Senate. The Committee agrees that consultation with affected academic units is important for the integrity of our certificate offerings and other programs, both academic and otherwise.

As such, the Committee has directed that all new certificate programs are to be held to the same standard for consultations currently expected for academic programs such as degrees, specializations, and courses. The Committee hopes that this will resolve the issue raised.

THE UNIVERSITY OF BRITISH COLUMBIA



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29 November 2007

To: Senate

From: Senate Curriculum Committee

Re: **FACULTY OF APPLIED SCIENCE CURRICULUM REPORT**

Attached please find the following proposals for your consideration:

| Course | Title | Action |
|---------------------|--------------------------------------|--------------|
| APSC 481 (3) | Entrepreneurial Projects I | new course |
| APSC Program Change | Academic Performance Evaluation | modify entry |
| APSC Program Change | Course Enrolment Restrictions | new entry |
| EECE 405 (3) | Quantum Dots and Device Applications | new course |
| EECE 484 (3) | Semiconductor Lasers | new course |

FACULTY OF APPLIED SCIENCE - ENGINEERING
CATEGORY 1
FALL 2007
UNDERGRADUATE PROPOSALS

Category 1

| | |
|--|--|
| Faculty: Applied Science Department: Engineering Physics Faculty Approval Date: November 1, 2007 Effective Session: Term 1 - Winter 2008 | Contact Person: Andre Marziali Phone: 2-4514 Email: andre@phas.ubc.ca |
| APSC New Course | |
| <p>Proposed Calendar entry: APSC 481 (3) ENTREPRENEURIAL PROJECTS I. A project course for students pursuing entrepreneurial training within Engineering Physics, and wishing to further develop projects resulting from APSC 459. Prerequisite: APSC 459 [0-5-1]</p> | <p>URL: n/a</p> <p>Present Calendar Entry: n/a</p> <p>Action: New course.</p> <p>Rationale: To provide an additional optional project course between APSC 459 and APSC 479 for students wishing to pursue a project-intensive entrepreneurial specialization of Engineering Physics.</p> |

Category 1

| Faculty: Applied Science Department: Engineering Physics Faculty Approval Date: November 1, 2007 Effective Session: Term 1 - Winter 2008 | Contact Person: Bruce Dunwoody Phone: 2-6556 Email: bruce.dunwoody@ubc.ca | | | | | | | | | | | | | | | | | | | | |
|---|---|-------------------|-------------------|--|--|--|------|-----------|--------|------|-------------------|-----------|--|-------------------|--------------------|-------------------|-----------|--------------------|--------------------|--|-----------|
| APSC Program Changes Effective: September 2008 | http://www.students.ubc.ca/calendar/index.cfm?tree=12,195,272,29 | | | | | | | | | | | | | | | | | | | | |
| <p>Proposed Calendar Entry:</p> <p>ACADEMIC PERFORMANCE EVALUATION</p> <p>A student will be evaluated for academic progress once he or she has taken at least 12 credits of coursework, excluding co-op courses, since last evaluated.</p> <p>One of three academic standings is assigned as a result of an academic performance evaluation; in Good Standing, on Academic Probation or Failed. All students are in Good Standing when first admitted to the Faculty.</p> <p>A student in Good Standing who achieves a credit-weighted average of at least 55% over all courses taken since the last academic performance evaluation and who passes at least 65% of those credits will remain in Good Standing. A student in Good Standing who does not achieve at least a 55% average or who does not pass at least 65% of the credits taken will be placed on Academic Probation.</p> <p>A student on Academic Probation who achieves a credit-weighted average of at least 60% and passes all courses taken since the last academic performance evaluation will be placed in Good Standing. Otherwise, the student will be assigned a standing of Failed.</p> <p>A student assigned an academic standing of Failed will be required to discontinue his or her studies for one year prior to an appeal for readmission. (Note: a student required to discontinue studies will be allowed to complete any courses already begun at the time of the requirement to discontinue studies.)</p> <p>A student who is assigned an academic standing of Failed for a second time will be required to withdraw from the University and will not normally be readmitted.</p> | <p>Present Calendar Entry:</p> <p>ACADEMIC PERFORMANCE EVALUATION</p> <p>Students will be evaluated for academic progress according to the approach described under this section, Academic Regulations.</p> <p>Specifically, a student will be evaluated for academic progress once he or she has completed at least 12 credits of coursework, excluding co-op courses, since last evaluated.</p> <p>One of three academic standings is assigned as a result of an academic performance evaluation; in good standing, on probation or failed. All students are in good standing when first admitted to the Faculty. The following table shows the academic standing assigned depending on current academic standing, credit-weighted average (Ave) and credits passed (CP):</p> <table><tr><th>Current Standing</th><th colspan="3">Standing Assigned</th></tr><tr><th></th><th>Good</th><th>Probation</th><th>Failed</th></tr><tr><td>Good</td><td>Ave>55% CP>65%</td><td>otherwise</td><td></td></tr><tr><td>Probation (first)</td><td>Ave>60% CP=100%</td><td>Ave>55% CP>65%</td><td>otherwise</td></tr><tr><td>Probation (second)</td><td>Ave>60% CP=100%</td><td></td><td>otherwise</td></tr></table> <p>A student assigned an academic standing of failed will be required to discontinue his or her studies for one year prior to an appeal for readmission. (Note: a student required to discontinue studies will be allowed to complete any courses already begun at the time of the requirement to discontinue studies.)</p> <p>A student who is assigned an academic standing of failed after having previously being required to discontinue studies will be required to withdraw from the University and will not normally be readmitted.</p> <p>Type of Action: Modify entry</p> | Current Standing | Standing Assigned | | | | Good | Probation | Failed | Good | Ave>55% CP>65% | otherwise | | Probation (first) | Ave>60% CP=100% | Ave>55% CP>65% | otherwise | Probation (second) | Ave>60% CP=100% | | otherwise |
| Current Standing | Standing Assigned | | | | | | | | | | | | | | | | | | | | |
| | Good | Probation | Failed | | | | | | | | | | | | | | | | | | |
| Good | Ave>55% CP>65% | otherwise | | | | | | | | | | | | | | | | | | | |
| Probation (first) | Ave>60% CP=100% | Ave>55% CP>65% | otherwise | | | | | | | | | | | | | | | | | | |
| Probation (second) | Ave>60% CP=100% | | otherwise | | | | | | | | | | | | | | | | | | |

FACULTY OF APPLIED SCIENCE - ENGINEERING CATEGORY 1 FALL 2007

| | |
|---|--|
| | <p>Rationale: We have now had one year's experience with the term-based academic performance evaluation. Unfortunately, we have found that it is too easy for a student who is doing poorly to continue at the University, when being forced to temporarily discontinue is ultimately in the student's best interest.</p> <p>The regulation has been rewritten to allow a student only a single term of probation in which to improve his or her performance before being required to discontinue.</p> <p>Also, an editorial change was made to clarify that a successful appeal to continue immediately despite a standing of "Failed" is still considered when a student is required to withdraw after a second "Failed" standing.</p> |
| <p>Proposed Calendar Entry:</p> <p>Course Enrolment Restrictions</p> <p>A student who is on Academic Probation is strongly encouraged to take 12 credits of coursework while on Academic Probation and is restricted to taking no more than 15 credits. A student taking 12 credits of coursework will be able to clear his or her Academic Probation status at the end of the term while being able to fully devote his or her energies to a limited number of courses.</p> | <p>http://www.students.ubc.ca/calendar/index.cfm?tree=12,195,272,29</p> <p>This new Calendar entry should follow the "Academic Performance Evaluation" entry and precede the "Promotion" entry.</p> <p>Type of Action: Add new entry.</p> <p>Rationale: Students with weak academic performance should take a light course load. Unfortunately, many students in this situation are reluctant to act accordingly and must be forced to take actions that are in their own best interests.</p> |

FACULTY OF APPLIED SCIENCE - ENGINEERING CATEGORY 1 FALL 2007

Category 1

| | |
|--|--|
| Faculty: Applied Science Department: Electrical and Computer Engineering Faculty Approval Date: November 1, 2007 Effective Date: Term 1 - Winter 2008 | Contact Person: Andre Ivanov Phone: 2-6936 Email: ivanov@ece.ubc.ca |
| EECE New Courses | |
| <p>Proposed Calendar Entry: EECE 405 (3) QUANTUM DOTS AND DEVICE APPLICATIONS. Theory and modeling techniques of 0-dimensional structures. Electronic, magnetic, and optical properties of quantum dots. Current and future applications of quantum dots including: single electron transistors, quantum dot lasers, optical detectors. [3-0-0].</p> | <p>URL: n/a</p> <p>Present Calendar Entry: n/a</p> <p>Type of Action: New Course</p> <p>Rationale: UBC does not currently offer such a course. The course will be of particular interest to students enrolled in the Microsystems and Nanotechnology Option in Electrical and Computer Engineering, but will also be of interest to Engineering Physics and Bioengineering students.</p> |
| <p>Proposed Calendar Entry: EECE 484 (3) SEMICONDUCTOR LASERS. An introduction to lasers and applications. Theory, modeling, fabrication and performance of semiconductor lasers. Optical communications links. [3-0-0]</p> | <p>URL: n/a</p> <p>Present Calendar Entry: n/a</p> <p>Type of Action: New Course</p> <p>Rationale: UBC does not currently offer such a course. This course will complement the Optical Waveguides and Photonics (EECE 482). This course will be of interest to students in Electrical Engineering, Engineering Physics, Physics, as well as some students in Mechanical Engineering and Bioengineering. This course is part of the undergraduate Microsystems and Nanotechnology Option.</p> |

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29 November 2007

To: Senate

From: Senate Curriculum Committee

Re: **FACULTY OF ARTS CURRICULUM REPORT**

Attached please find the following proposals for your consideration:

| Course | Title | Action |
|---------------------|--|---|
| AFST 350 (3/6) D | Introductory Topics in African Studies | change credit value from (3) to (3/6) D |
| ASIA 441 (3/6) D | Masterworks of Chinese Fiction and Drama in Translation | new course |
| CLST 319 (3) | The Roman Army | new course |
| HIST 495 (3) | Evolution and the Sciences of Mind, Brain, and Behaviour | new course |
| MUSC 128 (3) | Musical Rhythm and Human Experience | new course |
| MUSC 323 (3) | History of Popular Music | new course |
| PUNJ 401 (3) | Devotional Literature in Punjabi | new course |
| PUNJ 402 (3) | Medieval and Early Modern Punjabi Literature | new course |
| Dual Degree Program | Dual Degree Program in Arts and Science | add Calendar reference |



UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

| | |
|--|---|
| Faculty: Arts Department: African Studies Minor Faculty Approval Date: October 11, 2007 Effective Session 07W Term 2 Year 2008 for Change | Date: 21 May 2007 Contact Person: Margery Fee Phone: 2-4085 Email: Margery.fee@ubc.ca |
| Proposed Calendar Entry: AFST 350 (3/6) D INTRODUCTORY TOPICS IN AFRICAN STUDIES. Major issues and theoretical approaches. | AFST 350 (3) Introduction to African Studies Major issues and theoretical approaches. Type of Action: Change credit value from (3) to (3/6) D. Rationale: As new instructors take over the course, it may change in focus. We attach a version of the course that has a development focus. The course outline used presently is more literary in its focus. |



UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

| | |
|---|--|
| Faculty: Arts Department: Asian Studies Faculty Approval Date: October 11, 2007 Effective Session 2008W Term 1 Year 2008 for Change | Date: August 3, 2007 Contact Person: Maija Scott Phone: 822-9266 Email: maija@interchange.ubc.ca |
| Proposed Calendar Entry: ASIA 441 (3/6) D MASTERWORKS OF CHINESE FICTION AND DRAMA IN TRANSLATION. Reading of a "classic" novel or play, with attention to intellectual, social, and political subtexts as well as aesthetic dimensions and problems of interpretation. | URL: n/a Present Calendar Entry: none Type of Action: New course Rationale: Pre-modern Chinese novels and dramatic works are too long to be incorporated into a survey course. At best, students taking Asia 342 and 352 read severe abridgements or selected episodes only. In this course, the entire semester will be devoted to examining a single masterwork, with the choice changing from year to year. This will enable students to explore the selected work in depth, in terms of its aesthetic structure, historical context, and reception history. The latter topic may include adaptations in other media such as classical opera, film, serialized TV versions, and animated cartoons. Course may be taken up to two times for credit. |



UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

| | |
|---|--|
| Faculty: ARTS Department: CNEERS Faculty Approval Date: October 11, 2007 Effective Session _Winter___ Term __1_ Year 2008 for Change | Date: Jun 24, 2007 Contact Person: L. BABLITZ Phone:2-4063 Email: lbablitz@interchange.ubc.ca |
| Proposed Calendar Entry: CLST 319 (3) THE ROMAN ARMY. Rome's military from the early Republic to the Imperial period. Topics range from those of a military nature such as equipment and strategy to social topics such as policing and marriage of soldiers. | URL: Present Calendar Entry: NONE Type of Action: NEW COURSE Rationale: This course will be of interest to those students taking a major in any of the programs offered through the Department of Classical, Near Eastern, and Religious Studies who are interested in aspects of Rome's culture and history, students who are taking a major in the History department with an interest in Roman history or military history as well as other students in Arts or Science with a more general interest in Rome's history and development. |



UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

| | |
|---|---|
| Faculty: ARTS Department: HISTORY Faculty Approval Date: Effective Session FALL Term 1 ____ Year__2007 for Change | Date: 18 NOVEMBER 2006 Contact Person: Robert Brain Phone: 604 922 5409 Email: rbrain@interchange.ubc.ca |
| Proposed Calendar Entry: HIST 495 (3) EVOLUTION AND THE SCIENCES OF MIND, BRAIN, AND BEHAVIOUR. Examines how Darwin's theory of evolution changed the investigation of human nature. Questions will be historical and scientific, but will also concern the social, ethical, and existential stakes raised by the human mind as a product of evolution. | URL: N/A Present Calendar Entry: None. Type of Action: New course Rationale: This new course covers a very important development in the modern biological and human sciences, and the background to one of the most exciting areas of current scientific research. The new course will allow the department to expand its offerings in new areas that reflect the expertise of newly-hired faculty. |



UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

| | |
|---|--|
| Faculty: Arts Department: Music Faculty Approval Date: October 11 2007 Effective Session Winter Year__07_ for Change | Date: Oct. 5 2006 Contact Person: John Roeder Phone: 2-3715 Email: j.roeder@ubc.ca |
| Proposed Calendar Entry: MUSC 128 (3) MUSICAL RHYTHM AND HUMAN EXPERIENCE. A multidisciplinary survey of musical rhythm in selected world traditions and genres, connecting it to ideas of time, evolution, history, anthropology, philosophy, and contemporary globalised culture. | URL: None Present Calendar Entry: None Type of Action: New course Rationale: Students from all corners of the university will benefit from this wide-ranging course dealing with music as a human phenomenon. It combines introductory critical perspectives from multiple disciplines with experiential, music-making activities. The School of Music currently does not offer anything with comparable content. |



UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

| | |
|---|--|
| Faculty: Arts Department: Music Faculty Approval Date: October 11, 2007 Effective Session Winter Year__08_ for Change | Date: Jul. 5 2007 Contact Person: John Roeder Phone: 2-3715 Email: j.roeder@ubc.ca |
| Proposed Calendar Entry: MUSC 323 (3) HISTORY OF POPULAR MUSIC. Major genres in popular music from 1920 to the present. Not for credit towards the B.Mus., the B.A. in Music, or minors in Music. | URL: None Present Calendar Entry: None Type of Action: New course Rationale: This is a music appreciation course designed for the entire university. For the last decade, it has been offered every two years under the variable-topics course number MUSC 322, always enrolling a full class. Given that similar courses are a common fixture of most university course rosters, it seems appropriate to regularize it at UBC. |



UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

| | |
|--|--|
| Faculty: Arts Department: Asian Studies Faculty Approval Date: October 11, 2007 Effective Session 2008W Term 1 Year 2008 for Change | Date: May 28, 2007 Contact Person: Maija Scott Phone: 822-9266 Email: maija@interchange.ubc.ca |
| Proposed Calendar Entry: PUNJ 401 (3) DEVOTIONAL LITERATURE IN PUNJABI. Emphasis is on reading and written expression. Analytical writing in English and Punjabi required. Prerequisite: PUNJ 300. | URL: n/a Present Calendar Entry: none Type of Action: New course Rationale: These courses generally develop students' reading skills in medieval and early modern Punjabi at an advanced level, building upon the knowledge acquired in the first through third year courses. |
| Proposed Calendar Entry: PUNJ 402 (3) MEDIEVAL AND EARLY MODERN PUNJABI LITERATURE. Emphasis is on reading and written expression. Analytical writing in English and Punjabi required. Prerequisite: PUNJ 300. | URL: none Present Calendar Entry: n/a Type of Action: New course Rationale: Same as above. |



UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

| | |
|--|--|
| Faculty: Arts Department: Arts Faculty Approval Date: October 11, 2007 Effective Session __08W__ Term __1__ Year __2008__ for Change | Date: 29 August 2007 Contact Person: Dr. John Cooper, Associate Dean, Students, Faculty of Arts Phone: 23247 Email: 26607 |
| Proposed Calendar Entry: DUAL DEGREE PROGRAM IN ARTS AND SCIENCE This program offers qualified students the opportunity to earn a Bachelor of Arts and a Bachelor of Science degree in most combinations of one Arts major program and one Science (B.Sc.) major program. Most combinations can be completed between four and one-half to five and one-half winter sessions. Application for admission to the program is made to the Board of Studies through the Center for Arts Student Services (www.arts.ubc.ca/students). Acceptance into the program will be determined based on a review of both the applicant's transcript and a statement of academic purpose. Normally, application for admission will be made in the second term of the first year at UBC for students admitted directly from high school and in the summer before winter session for students admitted on transfer. Admission at any time is conditional; maintenance of good academic standing is required throughout the program. Admission to specializations within Arts and Science may be competitive and admission to the Dual Degree program does not imply future admission to particular specializations. The Dual Degree option is not open to students with a previous degree. Students must satisfy all of the degree | URL: Present Calendar Entry: None Type of Action: Add Calendar reference. Rationale: Over the last decade there has been more interest among undergraduate students in combining studies in Arts and Science disciplines. The number of students doing double Majors in Arts and Science has grown, there are more students in our Dual Degree program with Applied Science, and more students in Arts are Minorng in a Science subject. The present proposal brings to Arts and Science students the same opportunity that Arts and Applied Science students already have in earning two degrees through one program of study. As this new degree combination does not entail the creation of new courses or programs, the resource implications are minimal. The Faculty of Arts already has experience in monitoring this kind of program as a result of our existing Dual Degree arrangements with Applied Science. Admission to the program is by application to the Faculty of Arts Board of Studies. Membership of the Board is as follows: the Associate Dean (Students), the Assistant Dean (Student Services) the Director (or designate, usually the Senior Advisor) of the Arts Academic Advising office, and one other Advisor. |



and program requirements for both one major in the Bachelor of Arts and one major in the Bachelor of Science degrees. Students completing a B.A. Major in one of the following disciplines may not also complete a B.Sc. Major in the same discipline: Computer Science, Geography, Mathematics, Psychology, and Cognitive Systems. Individual courses may be considered to satisfy requirements for both degrees. Students should endeavour to satisfy lower-level course prerequisites for both programs in their first two years. Entry into and continuation in a Dual Degree program require that the student remains in good academic standing.

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29 November 2007

To: Senate

From: Senate Curriculum Committee

Re: **GRADUATE CURRICULUM REPORT**

Attached please find the following proposals for your consideration:

| Course | Title | Action |
|--------------|-----------------------|------------|
| PSYC 512 (3) | Psychology of Emotion | new course |
| SOWK 699 (0) | Doctoral Dissertation | new course |



UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

| | |
|--|--|
| Faculty: Arts Department: Psychology Faculty Approval Date: Effective Session: 2008 | Date: August, 2007 Contact Person: Tannis MacBeth Phone: 822-4826 Email: tmacbeth@psych.ubc.ca |
| Proposed Calendar Entry: PSYC 512 (3) PSYCHOLOGY OF EMOTION | Present Calendar Entry: N/A Type of Action: New course Rationale: PSYC 512 will focus on the breadth of research on emotions. This is a central research interest for several faculty members (Dunn, Christoff, Eich, Schooler, Tracy), but there is currently no graduate course in the Psychology Department's curriculum devoted to this topic. This content was taught last year and will be taught again this year as PSYC 529, Special Topics in Social Psychology, but, given that emotion is one of the largest and expanding areas of psychology, and social-personality psychology in particular, we want to offer it as its own stand-alone course with its own title and calendar entry. This will be more informative for graduate students in our own and other UBC departments, as well as those reading their transcripts. ID Number for Supporting Documents: PSYC 512-NEW |



UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

| | |
|--|---|
| <p>Proposed Calendar Entry:</p> <p>SOWK 699 (0) Doctoral Dissertation</p> | <p>URL:</p> <p>Present Calendar Entry: None.</p> <hr/> <p>Type of Action: New course.</p> <p>Rationale: In the fall of 2006 the School of Social Work and Family Studies underwent the normal periodic review conducted within the Faculty of Arts. The lead recommendation of that External Review Committee was "that the association between Social Work and Family Studies be dissolved." In following this recommendation, we are creating SOWK 699 to reflect the separation of the two disciplines.</p> |
|--|---|

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29 November 2007

To: Senate

From: Senate Curriculum Committee

Re: **FACULTY OF LAW CURRICULUM REPORT**

Attached please find the following proposal for your consideration:

Proposal to Change the Name of LL.B. Degree to J.D.

Please note that as a result of this proposal, all graduates holding LL.B. degrees will have the option to convert their degree to a J.D., provided they surrender their LL.B. degree to the University.

Proposal to the Senate Curriculum Committee, and other Relevant Committees, to Change the Degree Designation for the Faculty of Law from LL.B to J.D.

Executive Summary of Proposal

- The UBC Faculty of Law proposes to change the name of its first degree from LL.B. to J.D. The purpose of the change is to avoid confusion and to be consistent with usage in North America and other common law jurisdictions. All law faculties in the United States use the J.D. designation, as do post-graduate law programs in most other common law jurisdictions.
 - In Canada, the University of Toronto's Faculty of Law converted to the J.D. designation approximately seven years ago, and there is movement, albeit informal at this stage, to do the same at some other Canadian law faculties.
 - The change is a change in name only. There would be no implications for curriculum, admissions, student tuition/fees, or any other element of the program.
 - Like the M.D., the J.D. would not attract involvement of the Faculty of Graduate studies.
 - The change was initiated by strong student advocacy backed by a survey showing overwhelming support. There is also strong support among Faculty members, who voted overwhelmingly in favour of it. Alumni, who were solicited for their views, and given a genuine opportunity to respond, demonstrated strong support - among those who responded two favoured the change for every one who did not.
 - The change would be consistent with University Senate Policy, as well as with the Provincial Government's Degree Program Review Criteria and Guidelines.
 - Currently enrolled students would have the option to receive either a J.D. or an LL.B. Alumni would have the option to convert their LL.B degrees to J.D. degrees.
 - The change would not affect the ability of the Faculty's graduates to attain eligibility to practice law and the proposal does not require Law Society review or approval. The Law Society of British Columbia has been informed of the proposal.
-

THE UNIVERSITY OF BRITISH COLUMBIA



Faculty of Law

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MEMORANDUM

TO: Senate Curriculum Committee, c/o Christopher Eaton, Academic Governance Officer—
Enrolment Services, Senate & Curriculum Services

FROM: Joost Blom, Chair, Faculty of Law Curriculum Committee

DATE: 28 November 2007

RE: **Proposal to change name of LL.B. degree to J.D.—Calendar changes**

You asked me to provide you with the Calendar changes required for the change of the name of our LL.B. degree to J.D., the proposal for which has been conditionally approved by the Senate Curriculum Committee. These are the changes we would propose. (I have not used the normal change form because the present change does not lend itself to that format.) The headings referred to are those in the online Calendar.

I. Information about the transition from LL.B. to J.D.

IX Faculties, Colleges and Schools > The Faculty of Law > Bachelor of Laws > Introduction

The **present text** reads:

The Bachelor of Laws degree is granted on the successful completion of a three-year course and prepares students for admission to the practice of law (subject to further requirements that are set out below) and for business and public service. The number of students entering the practice of law in Canada has increased in the last few years and a degree in law is no guarantee of a position in either the necessary year of articles (described below) or in the practice of law. Enrolment in the first year of legal studies at the Faculty of Law is approximately 198 full-time equivalent students.

The **proposed new heading and text** would read:

IX Faculties, Colleges and Schools > The Faculty of Law > Juris Doctor > Introduction

The Juris Doctor degree is granted on the successful completion of a three-year course and prepares students for admission to the practice of law (subject to further requirements that are set out below) and for business and public service. The number of students entering the practice of law in Canada has increased in the last few years and a degree in law is no guarantee of a position in either the necessary year of articles (described below) or in the practice of law. Enrolment in the first year of legal studies at the Faculty of Law is approximately 198 full-time equivalent students.

Students who entered the LL.B program before July 1, 2008, and who were enrolled in the program in January, 2008, will receive J.D. degrees upon graduation from the program, unless they elect to receive the LL.B degree instead. All students admitted to the Faculty of Law's J.D. program for the academic year 2008/2009 and thereafter will receive J.D. degrees upon graduation. Alumni who received an LL.B degree

from the University of British Columbia can elect to convert their degree to a J.D. degree. Please contact the Faculty of Law for further information.

II. Other references to the name of the degree

The only other Calendar changes we propose are:

- To replace “Bachelor of Laws”, wherever it occurs, with “Juris Doctor”
- To replace “LL.B.”, wherever it occurs, with “J.D.”

The following is believed to be a complete list of the online Calendar headings where these changes would be needed:

I. Dates and Deadlines (deadline for LL.B.—change to J.D.)

IX. Faculties, Colleges, and Schools > College for Interdisciplinary Studies>Graduate Programs>Asia-Pacific Policy Studies (Replace “LL.B./M.A.A.P.S.” with “J.D./M.A.A.P.S.”).

IX. Faculties, Colleges, and Schools > The Faculty of Commerce and Business Administration>Professional Master’s Degrees>Joint M.B.A./LL.B. (Replace “LL.B.” with “J.D.” in the heading and throughout the section.)

IX. Faculties, Colleges, and Schools > The Faculty of Law>Introduction

IX. Faculties, Colleges, and Schools > The Faculty of Law>Bachelor of Laws>Admission

IX. Faculties, Colleges, and Schools > The Faculty of Law>Bachelor of Laws>Degree Requirements

IX. Faculties, Colleges, and Schools > The Faculty of Law>Bachelor of Laws>Combined Bachelor of Laws and Master of Business Administration

IX. Faculties, Colleges, and Schools > The Faculty of Law>Bachelor of Laws>Combined Master of Asia-Pacific Studies with Bachelor of Laws

Courses of Study and Degrees>Arts (Replace “LL.B./M.A.A.P.S.” with “J.D./M.A.A.P.S.”.)

Courses of Study and Degrees>Commerce and Business Administration (Replace “M.B.A./LL.B.” with “M.B.A./J.D.”.).

Courses of Study and Degrees>Law (Replace “Bachelor of Laws” with “Juris Doctor” in the first three items, and replace “LL.B.” with “J.D.”.)

Course Descriptions>LAW 560 (replace LL.B. with J.D.).

Please let me know if you need any further information concerning the Calendar changes.

THE UNIVERSITY OF BRITISH COLUMBIA



Enrolment Services
Senate and Curriculum Services
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29 November 2007

To: Senate

From: Senate Curriculum Committee

Re: **FACULTY OF SCIENCE CURRICULUM REPORT**

Attached please find the following proposals for your consideration:

For Approval:

| Course | Title | Action |
|--------------|---|---|
| BIOL 417 (3) | Phylogenetic Biology | new course |
| PHYL 398 (3) | Co-operative Work Placement I | new course |
| PHYL 399 (3) | Co-operative Work Placement II | new course |
| PHYL 498 (3) | Co-operative Work Placement III | new course |
| PHYL 499 (3) | Co-operative Work Placement IV | new course |
| CHEM 340 (3) | Chemistry in Contemporary Society | new course description |
| ATSC 490 (3) | Student Directed Seminars in Atmospheric Science | new course |
| ENVR 490 (3) | Student Directed Seminars in Environmental Science | new course |
| EOSC 321 (3) | Igneous Petrology | change to course title, description, pre- and co-requisites |
| EOSC 490 (3) | Student Directed Seminars in Earth and Ocean Sciences | new course |
| PSYC 398 (3) | Co-operative Work Placement I | new course |
| PSYC 399 (3) | Co-operative Work Placement II | new course |
| PSYC 498 (3) | Co-operative Work Placement III | new course |
| PSYC 499 (3) | Co-operative Work Placement IV | new course |

| | | |
|------------------------|--|--|
| Program changes | From: Dean's Office Cellular and Physiological Sciences Psychology | |
|------------------------|--|--|

Contact: Dr. Bill Ramey
Phone: 822-3300

October 30, 2007
Email: wramey@interchange.ubc.ca

BIOLOGY

Effective Date for Change: 08W
Proposed Calendar Entry:

BIOL 417 (3) Phylogenetic Biology
Biodiversity from an evolutionary perspective.
The evolutionary (phylogenetic) tree of genetic
descent that links all organisms: its
reconstruction, interpretation, and implications
for fields from ecology to molecular biology.
Prerequisites: BIOL 334. BIOL 336 is
recommended. [2-0-2]

Present Calendar Entry:

None.

Action: New course.

Rationale: Over the last 30 years, study of deep genetic history (phylogeny) has grown tremendously and come to play an important and integrating role for many other biological disciplines, from molecular biology through ecology. To keep the biology curriculum current, this discipline needs to be represented by a full course at the undergraduate level.

CELLULAR AND PHYSIOLOGICAL SCIENCES

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| <p>Effective Date for Change: 08W Proposed Calendar Entry:</p> <p>PHYL 398 (3) CO-OPERATIVE WORK PLACEMENT I Approved and supervised relevant work experience in an industrial, academic or government setting for a minimum of 13 weeks full time. Work term report required. Restricted to students admitted to the Co-op Program in Honours Physiology (B.Sc.). Prerequisite: Co-op Workshops, PHYL 301 and PHYL 303.</p> | <p>Present Calendar Entry: None. Action: New course. Rationale: This will be a co-operative work placement course in the Honours Physiology (B.Sc.) program. The course is required to structure the Co-operative Education Program for Physiology (B.Sc.).</p> |
| <p>Effective Date for Change: 08W Proposed Calendar Entry:</p> <p>PHYL 399 (3) CO-OPERATIVE WORK PLACEMENT II Approved and supervised relevant work experience in an industrial, academic or government setting for a minimum of 13 weeks full time. Work term report required. Restricted to students admitted to the Co-op Program in Honours Physiology (B.Sc.). Prerequisite: PHYL 398</p> | <p>Present Calendar Entry: None. Action: New course. Rationale: This will be a co-operative work placement course in the Honours Physiology (B.Sc.) program. The course is required to structure the Co-operative Education Program for Physiology (B.Sc.).</p> |
| <p>Effective Date for Change: 08W Proposed Calendar Entry:</p> <p>PHYL 498 (3) CO-OPERATIVE WORK PLACEMENT III Approved and supervised relevant work experience in an industrial, academic or government setting for a minimum of 13 weeks full time. Work term report required. Restricted to students admitted to the Co-op Program in Honours Physiology (B.Sc.). Prerequisite: PHYL 399.</p> | <p>Present Calendar Entry: None. Action: New course. Rationale: This will be a co-operative work placement course in the Honours Psychology (B.Sc.) program. The course is required to structure the Co-operative Education Program for Physiology (B.Sc.)</p> |

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| <p>Effective Date for Change: 08W Proposed Calendar Entry:</p> <p>PHYL 499 (3) CO-OPERATIVE WORK PLACEMENT IV Approved and supervised relevant work experience in an industrial, academic or government setting for a minimum of 13 weeks full time. Work term report required. Restricted to students admitted to the Co-op Program in Honours Physiology (B.Sc.). Prerequisite: PHYL 498</p> | <p>Present Calendar entry: None. Action: New course Rationale: This will be a co-operative work placement course in the Honours Physiology (B.Sc.) program. The course is required to structure the Co-operative Education Program for Physiology (B.Sc.).</p> |
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| CHEMISTRY | |
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| <p>Effective Date for Change: 08W Proposed Calendar Entry:</p> <p>CHEM 340 (3) Chemistry in Contemporary Society. Discussion of important chemistry topics that affect our lives, e.g. pollution, climate change, household chemicals, plastics, and chemical forensics. Concepts to allow understanding of chemical issues and to examine the role of chemistry research. Open to students with third year standing. Not open to students who have taken a university-level course in chemistry. [3-0-0]</p> | <p>Present Calendar Entry: None. Action: New course description. Rationale: The goal of this course is to extend chemical literacy to students that are not studying science, and to help them appreciate the role of chemistry and chemical research in society.</p> |

EARTH AND OCEAN SCIENCES

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| <p>Effective Date for Change: 08W Proposed Calendar Entry:</p> <p>ATSC 490 (3) Student Directed Seminars in Atmospheric Science. Pass/Fail. Self-directed, collaborative studies in atmospheric science, in a group-learning environment, initiated and coordinated by senior undergraduate students with the supervision of a faculty advisor. Course structure, enrollment, and delivery methods will comply with the "Handbook for Student Directed Seminars." [link to http://www.vpacademic.ubc.ca/sds/sds_handbook.pdf] Prerequisite: Third-year standing.</p> | <p>Present Calendar Entry: None. Action: New course. Rationale: The course is created as a response to the Student Directed Seminar course program as described on the web site of the Office of the Associate VP, Academic Programs. It will be offered on a Pass/Fail basis. The initiation of this course will differentiate it from existing Directed Studies courses which are directed and graded by faculty members. This also responds to the Registrar's request to clearly differentiate such courses.</p> |
| <p>Effective Date for Change: 08W Proposed Calendar Entry:</p> <p>ENVR 490 (3) Student Directed Seminars in Environmental Sciences. Pass/Fail. Self-directed, collaborative studies in environmental sciences, in a group-learning environment, initiated and coordinated by senior undergraduate students with the supervision of a faculty advisor. Course structure, enrollment, and delivery methods will comply with the "Handbook for Student Directed Seminars." [link to http://www.vpacademic.ubc.ca/sds/sds_handbook.pdf] Prerequisite: Third-year standing.</p> | <p>Present Calendar Entry: None. Action: New course. Rationale: The course is created as a response to the Student Directed Seminar course program as described on the web site of the Office of the Associate VP, Academic Programs. It will be offered on a Pass/Fail basis. The initiation of this course will differentiate it from existing Directed Studies courses which are directed and graded by faculty members. This also responds to the Registrar's request to clearly differentiate such courses.</p> |
| <p>Effective Date for Change: 08W Proposed Calendar Entry:</p> <p>EOSC 321 (3) Igneous Petrology. The origin and formation of igneous rocks. Prerequisite: EOSC 221. [2-3-0]</p> | <p>Present Calendar Entry: EOSC 321 (3) Igneous and Metamorphic Petrology: The origin and formation of igneous and metamorphic rocks. Prerequisite: All of EOSC 221, EOSC 327. Co-requisite: EOSC 333. [2-3] Action: Change course title, description, prerequisites and co-requisites. Rationale: A planned merger of this course and EOSC 322 has been canceled. Merged course did not fulfill program requirements in face of increased student enrollment. Reduced prerequisites are the same as was required before merger.</p> |

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| <p>Effective Date for Change: 08W Proposed Calendar Entry: EOSC 490 (3) Student Directed Seminars in Earth and Ocean Sciences. Pass/Fail. Self-directed, collaborative studies in earth and ocean sciences, in a group-learning environment, initiated and coordinated by senior undergraduate students with the supervision of a faculty advisor. Course structure, enrollment, and delivery methods will comply with the "Handbook for Student Directed Seminars." [link to http://www.vpacademic.ubc.ca/sds/sds_handbook.pdf] Prerequisite: Third-year standing.</p> | <p>Present Calendar Entry: None. Action: New course. Rationale: The course is created as a response to the Student Directed Seminar course program as described on the web site of the Office of the Associate VP, Academic Programs. It will be offered on a Pass/Fail basis. The initiation of this course will differentiate it from existing Directed Studies courses which are directed and graded by faculty members. This also responds to the Registrar's request to clearly differentiate such courses.</p> |
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| PSYCHOLOGY | |
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| <p>Effective Date for Change: 08W Proposed Calendar Entry: PSYC 398 (3) Co-operative Work Placement I. Approved and supervised relevant work experience in an industrial, academic or government setting for a minimum of 13 weeks full time. Normally taken in Summer Session after third year. Work term report required. Restricted to students admitted to the Co-op Program in Psychology (B.Sc.). Prerequisite: Co-op Workshops, PSYC 360 and PSYC 366.</p> | <p>Present Calendar Entry: None. Action: New course. Rationale: This will be a co-operative work placement course in the Psychology (B.Sc.) program. The course is required for the Co-operative Education Program for Psychology (B.Sc.), but has not had a calendar entry.</p> |
| <p>Effective Date for Change: 08W Proposed Calendar Entry: PSYC 399 (3) Co-operative Work Placement II. Approved and supervised relevant work experience in an industrial, academic or government setting for a minimum of 13 weeks full time. Normally taken in fourth year Winter Session, Term 1. Work term report required. Restricted to students admitted to the Co-op Program in Psychology (B.Sc.). Prerequisite: PSYC 398.</p> | <p>Present Calendar Entry: None. Action: New course. Rationale: This will be a co-operative work placement course in the Psychology (B.Sc.) program. The course is required for the Co-operative Education Program for Psychology (B.Sc.)</p> |

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| <p>Effective Date for Change: 08W Proposed Calendar Entry:</p> <p>PSYC 498 (3) Co-operative Work Placement III. Approved and supervised relevant work experience in an industrial, academic or government setting for a minimum of 13 weeks full time. Normally taken in fourth year Winter Session, Term 2. Work term report required. Restricted to students admitted to the Co-op Program in Psychology (B.Sc.). Prerequisite: PSYC 399.</p> | <p>Present Calendar Entry: None. Action: New course. Rationale: This will be a co-operative work placement course in the Psychology (B.Sc.) program. The course is required for the Co-operative Education Program for Psychology (B.Sc.) but has not had a calendar entry.</p> |
| <p>Effective Date for Change: 08W Proposed Calendar Entry:</p> <p>PSYC 499 (3) Co-operative Work Placement IV. Approved and supervised relevant work experience in an industrial, academic or government setting for a minimum of 13 weeks full time. Normally taken in Summer Session after fourth year. Work term report required. Restricted to students admitted to the Co-op Program in Psychology (B.Sc.). Prerequisite: PSYC 498.</p> | <p>Present Calendar Entry: None. Action: New course. Rationale: This will be a co-operative work placement course in the Psychology (B.Sc.) program. The course is required for the Co-operative Education Program for Psychology (B.Sc.) but has not had a calendar entry.</p> |

Contact: Dr. Bill Ramey
Phone: 822-3300

Faculty Approval Date: Oct. 30, 2007
Email: wramey@interchange.ubc.ca

DEAN'S OFFICE

Effective Date for Change: 08W
Proposed Web site Entry:

First-year credit

UBC recognizes the IB enriched secondary school program. The table below shows how first-year credit is granted for IB courses

...
take the course anyway.

| Subject | Minimum IB higher level score* | UBC course granted (including credit values) |
|-------------------|--|--|
| Physics HL | 6 | PHYS 100 (3), PHYS 1st (3), PHYS 101 (0) exempt |
| Physics SL | 6 | PHYS 100 (3) |

*** HL or SL in the case of Physics**

Present you@UBC Web site Entry:

<http://you.ubc.ca/ubc/vancouver/ib.ezc#fyc>

First-year credit

UBC recognizes the IB enriched secondary school program. The table below shows how first-year credit is granted for IB courses

...
take the course anyway.

| Subject | IB higher level grade | UBC course granted (including credit values) |
|----------------|---------------------------------|--|
| Physics | 6 | 100-level PHYS (6) |

Action: Make the recognition given to IB Physics courses more specific and distinguish the higher level from the standard level course. Add "minimum" to the required IB score.

Rationale: Offering credit for completion of advanced high school courses has two purposes: to advise students of the appropriate university courses to take and to recognize the extra work done as a way of recruiting strong students. While the high school courses may help students to develop strong learning skills their curriculum never matches that in first-year university courses. UBC has a fairly generous recognition policy but a balance has to be struck between offering credit to attract students and encouraging students to take critical first-year courses.

The Department of Physics and Astronomy has conducted an in-depth study of the curriculum of IB Physics courses and of the performance at UBC of students entering with credit for those courses. Offering specific credit and exemption for the HL course will allow many students to fulfill their first-year physics requirement with the IB course. The department recommends that for the first time at UBC an SL course be granted specific credit but only three credits because much less time is spent in the SL course than in the HL course. (The SL program provides 80 hours of instruction over two

| | <p>years and covers chapters 1-6 and options A& H. The HL program provides an additional 55 hours on chapters 7-12 and option G on relativity.) Some other universities (e.g., SFU) may grant more credit but they permit students to take theory-only physics courses whereas UBC links the theory and practical aspects of the subject in courses such as PHYS 100, 101, and 102 and so to offer inappropriate credit or exemption would do a disservice to UBC students. Adding “minimum” to the required score will encourage top students because the highest score possible is 7.</p> <p>The suggestion to change “grade” to “score” is semantic. Typically, the IB Organization uses “score” to refer to the mark assigned out on a scale of 1-7 for each course and “points” to refer to the total score for a Diploma student.</p> | | | | | | | | | | | | |
|---|---|--|------------------|----------------------------------|-----------------------------|---------------------|---|---------------------|--|---------|--|---|----------------------------------|
| <p>Effective Date for Change: 08W Proposed Web Entry:</p> <p>First-year credit</p> <p>If you achieve a grade of 4 or better on approved AP exams, UBC will grant you credit.</p> <p>...</p> <p>take the course anyway.</p> <table border="1" data-bbox="151 1108 748 1587"> <tr> <th>Subject</th><th>UBC course granted (including credit values)</th></tr> <tr> <td>Physics B</td><td>100-level PHYS (3), PHYS 100 (3)</td></tr> <tr> <td>Physics C Mechanics*</td><td>PHYS 107 (3)</td></tr> <tr> <td>Physics C Electricity and Magnetism*</td><td>PHYS 108 (3)</td></tr> </table> <p>* Students who are intending to pursue a program in Physics should read footnote 1 on the following website before registering. http://www.physics.ubc.ca/undergrad/ph_intro.php</p> | Subject | UBC course granted (including credit values) | Physics B | 100-level PHYS (3), PHYS 100 (3) | Physics C Mechanics* | PHYS 107 (3) | Physics C Electricity and Magnetism* | PHYS 108 (3) | <p>Present you@UBC Web site Entry: (https://you.ubc.ca/ubc/vancouver/ap.ezc)</p> <p>First-year credit</p> <p>If you achieve a grade of 4 or better on approved AP exams, UBC will grant you credit.</p> <p>...</p> <p>take the course anyway.</p> <table border="1" data-bbox="808 1108 1463 1383"> <tr> <th>Subject</th><th>UBC course granted (including credit values)</th></tr> <tr> <td>Physics B or Physic C (Elec) and Physic C (Mech)</td><td>100-level PHYS (3), PHYS 100 (3)</td></tr> </table> <p>Action: Make the recognition given to AP Physics courses more specific. Correct spelling. Rationale: Offering credit for completion of advanced high school courses has two purposes: to advise students of the appropriate university courses to take and to recognize the extra work done as a way of recruiting strong students. While the high school courses may help students to develop strong learning skills their curriculum never matches that in first-year university courses. UBC has a fairly generous recognition policy but a balance has to be struck between offering credit to attract students and encouraging students to take critical first-year courses.</p> | Subject | UBC course granted (including credit values) | Physics B or Physic C (Elec) and Physic C (Mech) | 100-level PHYS (3), PHYS 100 (3) |
| Subject | UBC course granted (including credit values) | | | | | | | | | | | | |
| Physics B | 100-level PHYS (3), PHYS 100 (3) | | | | | | | | | | | | |
| Physics C Mechanics* | PHYS 107 (3) | | | | | | | | | | | | |
| Physics C Electricity and Magnetism* | PHYS 108 (3) | | | | | | | | | | | | |
| Subject | UBC course granted (including credit values) | | | | | | | | | | | | |
| Physics B or Physic C (Elec) and Physic C (Mech) | 100-level PHYS (3), PHYS 100 (3) | | | | | | | | | | | | |

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| | <p>The Department of Physics and Astronomy has conducted an in-depth study of the curriculum of AP Physics courses and of the performance at UBC of students entering with credit for those courses.</p> <p>Students interested in study in the physical sciences are encouraged to take PHYS 107, 108, and 109 at UBC so a clear distinction between the AP Physics B and C courses will help students plan their programs. Students successfully completing AP Physics C will be exempted from PHYS 100 on the basis that their AP course is considered more than the equivalent of Physics 12. They will also need more course planning advice; hence the reference to the department's Web site.</p> <p>Students interested in study in other disciplines normally take PHYS 100 (or Physics 12) and PHYS 101. The current (and proposed) arrangement gives explicit credit for PHYS 100 but not 101. In some programs the extra unassigned 100-level PHYS credits will be useful in satisfying part of the "breadth" requirement for the B.Sc. degree.</p> |
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| <p>Effective Date for Change: 08W Proposed Calendar Entry:</p> <p>Dual Degree Program in Science and Music</p> <p>This program offers capable students the opportunity to earn a Bachelor of Science and a Bachelor of Music degree in most combinations of one Science (B.Sc.) major program and one Music (B.Mus.) major program. Most combinations can be completed in six winter sessions.</p> <p>Admission to the B.Mus. program requires an audition. Interested B.Sc. students must consult a senior advisor in the School of Music at the time of application to UBC. Admitted B.Sc. students who are recommended by the School of Music may apply for admission to the Dual Degree program through the Science Information & Advising Centre (see www.eScience.ubc.ca/academic/advising).</p> <p>Acceptance into the program will be based on the recommendation from the School of Music and a review of both the applicant's transcript and a statement of academic purpose.</p> <p>Registered first- or second-year BSc students may apply to the Dual Degree program but they must meet the admission requirements of the School of Music. Applications from students with a higher year standing will not be considered.</p> <p>Admission to specializations within Science and Music may be competitive and admission to the Dual Degree program does not imply future admission to particular specializations.</p> <p>The Dual Degree program is not open to students with a previous degree.</p> <p>Admission at any time is conditional; maintenance of good academic standing and at least a B⁻ (68%) average in each term are required throughout the program. Students must satisfy all of the degree and program requirements for both the major in the</p> | <p>http://www.students.ubc.ca/calendar/index.cfm?tree=12,215,410,408#14610 Insert after Dual Degree Program in Science and Arts</p> <p>Present Calendar Entry: None.</p> <p>Action: New Dual Degree program.</p> <p>Rationale: The Dual Degree Program in Science and Arts was created to meet the needs of a small but motivated group of students with interests that cross the traditional faculty boundary. Now an agreement has been reached between the Faculty of Science and the School of Music to allow exceptional B.Sc. students greater access to performance courses in Music and the possibility of graduating with two degrees. Because of the demands of the two programs and the requirement for careful academic planning, the only students who will be considered are those in their early years who have maintained a high average. Students in the Dual Degree Program will be able to double count some courses and so shorten their period of study but the Faculty of Science regulations governing upper-level requirements will take precedence.</p> |
|---|---|

Bachelor of Science and the major in the Bachelor of Music. Individual courses may be considered to satisfy requirements for both degrees; MUSC courses may satisfy the Arts and Breadth requirements for the B.Sc. major program. MUSC courses numbered below 300 may not count toward the upper-level credit requirement for the B.Sc. program.

Students should endeavour to satisfy lower-level course prerequisites for both programs in their first two years. Students must communicate with an advisor in the Science advising office prior to enrolling in their first year of courses and at least annually thereafter.

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| <p>Effective Date for Change: 08W Proposed Calendar Entry:</p> <p>Academic Standing</p> <p>Student academic performance is monitored closely so as to identify early any student whose performance is likely to lead to academic failure. The Faculty works with individual students to provide academic guidance so as to maximize the chances of all students succeeding. Two kinds of academic performance review take place, one at the end of a term and another at the end of both winter session and summer session. Both kinds of reviews evaluate recent academic performance in light of past performance but cumulative average over more than one session is not assessed.</p> <p>The review at the end of a term will identify students at risk of academic failure as described below under Students at Risk. The review at the end of each session (winter and summer) will determine whether or not a student can continue in the next session and under what conditions (see Sessional Evaluation and Continuation Requirements below).</p> <p>Students at Risk The following table identifies students “At Risk” following an academic performance evaluation based on the current academic standing, the credit-weighted average (AVG) and the percentage of the credits passed (CP) in the term.</p> <p>Co-operative Education work terms are not included in the evaluation. Courses are only included in a term evaluation once a final grade has been assigned. For example, courses for which a deferred examination has been granted will be considered within the academic performance evaluation for the period in which the deferred examination is written. Students will be considered “At Risk” if, in a term, one of the following conditions is met:</p> | <p>http://www.students.ubc.ca/calendar/index.cfm?tree=12,215,410,407#2525 Present Calendar Entry:</p> <p>Academic Standing</p> <p>The Academic Standing section applies to only those students entering the Faculty in 2007 Winter and thereafter. All other students are referred to the <u>Continuation Requirements</u> in the archived Calendar online.</p> <p>An academic performance evaluation will be performed on each student at the end of each term of winter session and at the end of summer session, as described under Academic Performance Evaluations (see "Academic Regulations", Calendar Chapter V). Co-operative education work terms are not included in the evaluation. Courses are only included in an academic performance evaluation once a final grade has been assigned. For example, courses for which a deferred examination has been granted will be considered within the academic performance evaluation for the period in which the deferred examination is written.</p> <p>The following tables determine the academic standing of a student following an academic performance evaluation based on the current academic standing, the credit-weighted average (AVG) and the percentage of the credits passed (CP).</p> <p>Table 1: Academic Standing (9 credits or fewer attempted)</p> |
|---|--|

| Either 9 credits or fewer attempted | |
|-------------------------------------|---------------------|
| Current Standing | Performance in Term |
| ACPR or Failed already on record | AVG<65% or CP<100% |
| In Good Standing | AVG<50% or CP<50% |
| Or more than 9 credits attempted | |
| Current Standing | Performance in Term |
| ACPR or Failed already on record | AVG<55% or CP<100% |
| In Good Standing | AVG<55% or CP<65% |

Students At Risk may be asked by their dean or director to do one or more of the following: to formulate an academic plan; to take part in academic skills workshops; to reduce their course load; and to commit to an on-going program of medical care or support from counselling services, the Access and Diversity office (Disability Resource Centre) or another health professional. Students At Risk who do not show improvement in academic performance in the next sessional evaluation risk being placed on Academic Probation with a reduced credit allotment or being assigned a Failed Year and being required to withdraw (see Sessional Evaluation and Continuation Requirements below). Students who achieve Good Standing on a sessional evaluation but whose most recent term places them At Risk will also be subject to the terms in this paragraph.

Sessional Evaluation and Continuation Requirements.

There are three sessional standings: Good Standing, Academic Probation, and Failed Standing. Sessional evaluations are conducted twice yearly, after winter session and after summer session if the student was registered. The possible outcomes are listed in the table "Summary of Continuation Requirements" below. Co-operative education work terms are not included in the evaluation. If one or more courses do not have a final grade at the time that the sessional evaluation is conducted, e.g.,

| Current Academic Standing | Academic Performance | New Academic Standing |
|---------------------------|----------------------|-----------------------|
| In-Good Standing | AVG>=50% and CP>=50% | In-Good Standing |
| | AVG<50% or CP<50% | On Academic Probation |
| On Academic Probation | AVG>=65% and CP=100% | In-Good Standing |
| | AVG<50% or CP<50% | Failed |
| | Otherwise | On Academic Probation |

Table 2: Academic Standing (more than 9 credits attempted)

| Current Academic Standing | Academic Performance | New Academic Standing |
|---------------------------|----------------------|-----------------------|
| In-Good Standing | AVG>=55% and CP>=65% | In-Good Standing |
| | AVG<55% or CP<65% | On Academic Probation |
| On Academic Probation | AVG>=55% and CP=100% | In-Good Standing |
| | AVG<55% and CP<100% | Failed |
| | Otherwise | On Academic Probation |

A student who is on Academic Probation is restricted to taking no more than 12 credits in either term of winter session or no more than 11 credits during summer session. That student must also submit an academic plan to an advisor in the Science Information & Advising Centre during each study term. A meeting with the advisor may be required.

~~A student who receives a standing of On Academic Probation for three consecutive academic progress~~

if a final examination has been deferred, and the recorded grades in completed courses indicate that an unsatisfactory standing is likely, then eligibility for future registration may be withheld until all the grades for the session under review are final.

Good Standing

Students who enter a Winter or Summer session in Good Standing and who pass all courses will be eligible to continue their studies in Good Standing. If they do not pass all courses but attain a sessional average of 55.0% or more they will also be eligible to continue in Good Standing as long as they did not have a Failed Standing in any previous session (see *Academic Probation Standing* below).

Students who enter a session on Academic Probation or with Failed Standing must take at least 12 credits in a session, must successfully complete all courses attempted and must attain a sessional average of at least 55.0% to leave the session in Good Standing.

Academic Probation Standing

Students who enter a session in Good Standing and who were not assigned Failed Standing in any previous session who then fail one or more courses and attain a sessional average of less than 55.0% but at least 50.0% will be placed on Academic Probation.

Also, students who had a Failed Standing sometime before the immediately preceding session but who enter the session in Good Standing, who then fail one or more courses but attain a sessional average of 55.0% or higher will be placed on Academic Probation.

In addition, three categories of students who enter a session on Academic Probation or who were permitted to continue with Failed Standing from the previous session will enter the next session on Academic Probation:

- 1) those who pass all courses with an average of at least 55.0% but on a load of less than 12 credits,
- 2) those who pass all courses but do not attain an average of at least 55.0%,
- 3) those who attain an average of at least 55.0% but do not pass all courses.

A student who is on Academic Probation is

~~evaluations will be assigned a Failed academic standing.~~

A student who receives a ~~Failed academic~~ standing will be required to discontinue his or her studies for 12 months. Normally, the student will be required to discontinue studies, starting immediately.

However, a student registered in and attending one or more courses will be permitted to complete those courses ~~if the determination of an academic standing of Failed is only~~ made after the last date for withdrawal without a 'W' being recorded on the transcript.

A student appealing to the Faculty to be permitted to continue his or her studies immediately despite having received an academic standing of ~~Failed~~ may not register for or attend courses while awaiting the results of the appeal, except as noted above. ~~A student on Academic Probation should maintain contact with his or her faculty advisor in case any circumstances arise that might adversely affect academic performance.~~

A student in Good Standing may withdraw voluntarily (i.e., not register for courses in a winter session) and apply for re-admission to a later session. No requirements to take courses at another institution or to meet a competitive admission average apply to such a student.

A student with a ~~Failed standing or who fails to meet promotion requirements within the maximum credit limits (see Promotion Requirements under Bachelor of Science, Degree Requirements)~~ or who leaves UBC while on Academic Probation may apply for readmission after one full year, but such a student does not have the right to automatic readmission. Applications for readmission should be submitted to the Undergraduate Admissions Office. ~~Applications~~ will be considered by the Science Admissions, Adjudication, and Appeals Committee. In considering an application for readmission, the Committee will take into account any and all evidence of a student's ability to perform satisfactorily at the university level. The committee will expect students with a Failed standing who had successfully completed fewer than 60 science-eligible credits and those who leave while on Academic Probation to demonstrate their abilities by completing the following amount of work at a BC College or similar institution and attaining an overall G.P.A. of 2.50, calculated on all university-transfer work attempted after they

restricted to taking no more than 12 credits in either term of winter session or no more than 11 credits during summer session. That student must also submit an academic plan to an advisor in the Science Information & Advising Centre during each study term. A meeting with the advisor may be required.

Failed Standing

Students who attain a sessional average of less than 50.0% in any Winter or Summer Session will be assigned Failed Standing. They will be required to withdraw from the Faculty unless this sessional average is based on fewer than 12 credits (Winter Session) or 6 credits (Summer Session) and they entered the session in Good Standing, in which case they will be permitted to continue under the credit limitations and the requirement for consultation with an advisor described above under *Academic Probation Standing*.

Students who enter a session on Academic Probation or with Failed Standing in any previous session, who then attain a sessional average of at least 50.0% but less than 55.0%, and who fail one or more courses will be assigned Failed Standing and be required to withdraw.

Withdrawal

A student who is required to withdraw because of **Failed** Standing will be required to discontinue his or her studies for 12 months. Normally, the student will be required to discontinue studies starting immediately. However, a student registered in and attending one or more courses will be permitted to complete those courses **only if the determination of Failed standing is** made after the last date for withdrawal without a 'W' being recorded on the transcript.

A student appealing to the Faculty to be permitted to continue his or her studies immediately despite having received an academic standing of **Failed** may not register for or attend courses while awaiting the results of the appeal, except as noted above.

A student in Good Standing may withdraw voluntarily (i.e., not register for courses in a winter session) and apply for re-admission to a later session. No requirements to take courses at

were required to withdraw. A negative decision may be appealed to the Senate Admissions Committee. That Committee does not change decisions of the Faculty based on academic **grounds**, but may grant an appeal if due process was not followed by the Faculty. Thus, unless the appellant supplies additional information in support of special consideration, the appeal to Senate is unlikely to succeed.

Students required to withdraw after completing more than 60 Science-eligible credits are encouraged to take courses at a college or similar institution, even though some of the credits so earned may not be transferable to UBC.

| Credits Completed Before Withdrawal | College Transfer Credits Required Before Applying For Readmission |
|--|--|
| 30 or fewer | 30 |
| 31-45 | 24 |
| 46-60 | 12 |
| More than 60 | No requirement |

A student who had a standing of either On Academic Probation or Failed in their last term at UBC and who is re-admitted to the Faculty will be placed On Academic Probation in their first term.

Action: Re-introduce rules for sessional evaluation and distinguish between that process and term-based performance review. Clarify both the requirements for maintaining good academic standing based on the two types of review and the consequences of unsatisfactory standing.

Rationale: Sessional Evaluation rules that were in the Calendar until 2005-2006 are being re-introduced because they are still the guidelines for students against which they can compare their academic performance in each session. The term-based academic performance review introduced last year was intended to supplement but not to replace the sessional evaluation process so that together the two kinds of review enable the Faculty to identify students at risk of failure early and to provide opportunities for corrective actions. Students who experience poor academic performance may have encountered a short-term disadvantageous situation but often there are on-going personal issues that need to be identified and rectified before the

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| <p>another institution or to meet a competitive admission average apply to such a student but any such study must be declared at the time of applying for re-admission and the results may be taken into consideration. Students are restricted in the number of credits that may be attempted before completing the LPI and English requirements, before gaining promotion to the next year level, and before qualifying for graduation. Students who fail to meet these requirements within the allotted credit limits will be required to discontinue studies in the Faculty of Science (See Language Proficiency Index (LPI) Requirement for First-Year English [link to http://www.students.ubc.ca/calendar/index.cfm?tree=12,197,282,55#9356], English Requirement under Bachelor of Science, Degree Requirements [link to http://www.students.ubc.ca/calendar/index.cfm?tree=12,215,410,408#2566], and Promotion Requirements [link to http://www.students.ubc.ca/calendar/index.cfm?tree=12,215,410,408#4932]).</p> <p>A student who is required to withdraw because of Failed Standing or because of failure to meet the LPI, English or promotion requirements within the maximum credit limits or who leaves UBC while on Academic Probation may apply for readmission after one full year, but such a student does not have the right to automatic readmission. Applications for readmission should be submitted to the Undergraduate Admissions Office together with a letter of appeal which will be considered by the Science Admissions, Adjudication, and Appeals Committee. In considering an application for readmission, the Committee will take into account any and all evidence of a student's ability to perform satisfactorily at the university level. A written self-assessment, documentation of action taken to rectify personal issues that interfered with academic progress, and a reasoned academic plan are among the items that will be reviewed.</p> <p>The Faculty committee will expect students with a Failed standing who had successfully completed fewer than 60 science-eligible credits</p> | <p>student can succeed academically. Students who do not succeed academically can seek support from instructors, academic advising units, and health service units, among other sources. Students may choose not to take advantage of the services provided by the University but the University in turn does not have to continue to provide access to courses if the student's academic performance does not improve.</p> |
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and those who leave while on Academic Probation to demonstrate their abilities by completing the following amount of work at a BC college or similar institution and attaining an overall G.P.A. of 2.50, calculated on all university-transfer work attempted after they **leave UBC**.

| Credits Completed Before Withdrawal | College Transfer Credits Required Before Applying For Readmission |
|-------------------------------------|---|
| 30 or fewer | 30 |
| 31-45 | 24 |
| 46-60 | 12 |
| More than 60 | No requirement |

Students required to withdraw after completing more than 60 Science-eligible credits are encouraged to take courses at a college or similar institution, even though some **or all** of the credits so earned may not be transferable to the degree.

A negative decision by the Faculty on an application for re-admission may be appealed to the Senate Admissions Committee. That Committee does not change decisions of the Faculty based on academic **judgment**, but may grant an appeal if due process was not followed by the Faculty. Thus, unless the appellant supplies additional information in support of special consideration, the appeal to Senate is unlikely to succeed.

A student who had been required to discontinue his or her studies and later successfully appealed for readmission will be placed **on** Academic Probation in their first session back at UBC **and then will be subject to the academic standing rules below**.

Summary of Continuation Requirements determined through Sessional Evaluation with new standing based on prior standing, sessional average, and success in courses

| Sessional Average, Course Success | <i>Standing Upon Entering Session</i> | | |
|--|---|---|--|
| | Good Standing | Academic Probation (ACPR) | Failed Standing, Permitted to Continue |
| | <i>New Standing</i> | | |
| 55% or higher, passed all courses | Good Standing | Good Standing if enrolled in 12 or more credits. Other-wise, ACPR | Good Standing if enrolled in 12 or more credits. Other-wise, ACPR ¹ |
| At least 50% but less than 55%, passed all courses | Good Standing | ACPR | ACPR ¹ |
| 55% or higher, failed one or more courses | Good Standing if no Failed Standing on record otherwise ACPR | ACPR | ACPR ¹ |
| At least 50% but less than 55%, failed one or more courses | ACPR if no Failed Standing on record otherwise Failed, required to withdraw | Failed, required to withdraw | Failed, required to withdraw |
| Below 50%; enrolled in 12 or more credits (Winter) or 6 or more (Summer) | Failed, required to withdraw | Failed, required to withdraw | Failed, required to withdraw |
| Below 50%; enrolled in under 12 credits (Winter) or under 6 (Summer) | Failed, permitted to continue | Failed, required to withdraw | Failed, required to withdraw |
| ¹ Fail Standing remains on record and may affect future academic standing. | | | |

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| <p>Effective Date for Change: 08W Proposed Calendar Entry:</p> <p>Student Academic Performance</p> <p>Science Scholar</p> <p>Graduating students and students promoted to second, third, or fourth year with a standing of 90% or better in the previous Winter Session will receive the notation "Science Scholar" on their records. A course load of at least 27 credits must have been completed in Winter Session and students must have passed all courses in order to receive this designation. Students in a co-operative education or an education abroad program who are registered at UBC for only one term in Winter Session must complete at least 15 credits and pass all credits attempted with a standing of at least 90% in order to receive the designation.</p> <p>Dean's Honour List</p> <p>Graduating students and students promoted to second, third, or fourth year with a standing of 80% or better in the previous Winter Session will receive the notation "Dean's Honour List" on their records. A course load of at least 27 credits must have been completed in Winter Session and students must have passed all courses in order to receive this designation. Students in a co-operative education or an education abroad program who are registered at UBC for only one term in Winter Session must complete at least 15 credits and pass all credits attempted with a standing of at least 80% in order to receive the designation.</p> <p>Graduation Standing</p> <p>The designation “with Distinction” will be entered on the degree parchment for any student who graduates while in good standing and who has achieved an average of at least 85.0% on 30 credits of Science courses numbered 300 or above designated as part of the program by the department and approved by the Dean.</p> | <p>http://www.students.ubc.ca/calendar/index.cfm?tree=12,215,410,407# 2513 Present Calendar Entry:</p> <p>Student Academic Performance</p> <p>Science Scholar</p> <p>Graduating students and students promoted to second, third, or fourth year with a standing of 90% or better in the previous year will receive the notation "Science Scholar" on their records. The average is calculated on the best 27 credits in Winter Session, but students must have passed all courses in order to receive this designation. Students in a co-operative education or an education abroad program who are registered at UBC for only one term in Winter Session must complete at least 15 credits and pass all credits attempted with a standing of at least 90% in order to receive the designation.</p> <p>Dean's Honour List</p> <p>Graduating students and students promoted to second, third, or fourth year with a standing of 80% or better in the previous year will receive the notation "Dean's Honour List" on their records. The average is calculated on the best 27 credits in Winter Session, but students must have passed all courses in order to receive this designation. Students in a co-operative education or an education abroad program who are registered at UBC for only one term in Winter Session must complete at least 15 credits and pass all credits attempted with a standing of at least 80% in order to receive the designation.</p> <p>Graduation Standing</p> <p>In an honours or combined honours program the categories of degree are Class 1 and Class 2, calculated on the basis of a minimum of 42 credits of courses, numbered 300 or above, designated as part of the program by the department, and approved by the Dean. In a major or double major program the graduation standing is based on a minimum of 30 credits of courses, numbered 300 or above, designated as part</p> |
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| <p>A program may specify one or more of the courses to be included in the 30-credit average. For all students completing an honours thesis, the course and grade will be included in the average.</p> | <p>of the program by the department(s), and approved by the Dean.</p> <p>In the General Science program the graduation standing is based on the required work of the third and fourth years, including a minimum of 30 credits of courses numbered 300 or higher.</p> <p>In the Integrated Sciences program, graduation standing is based on the required work of the third or fourth years including a minimum of 30 credits of science courses numbered 300 or higher, among which must be 9 credits of Integration courses (ISCI) and 18 credits of upper level courses in the area of focus.</p> <p>Action: Modify the calculation for Winter Session academic standing and institute a new graduating standing.</p> <p>Rationale: For several years, practice has not followed the Calendar statement, principally with regard to Graduation Standing. Students have been assigned a “graduating average” based on the best 30 or 42 (Honours programs) credits of upper-level courses required for the program with, in some cases, some of the credits being specified by the program. “Class 1” and “Class 2” have not been used in recent years. Preparation of a separate proposal to Senate to increase the amount of information on the degree parchment revealed a diversity of designations for outstanding academic performance across undergraduate faculties. The faculties of Applied Science and Commerce & Business Administration each have a standing (“with distinction”, “with honours”) on the degree parchment based on the student achieving an average of at least 80% on all courses numbered 200 and above (Applied Science) or all upper-level COMM courses. Science has used a more generous calculation but has not given value to the resulting average by applying an honorific term that might tell an outsider that the faculty regards the accomplishment as outstanding. Instituting the standing “with Distinction” would rectify that omission. The minimum of an A average ensures that only true scholars are recognized and will be easy to explain to those unfamiliar with the intricacies of University grading practices. Standardizing the credit base at 30 across program types may benefit students in Honours programs who have to complete at least 42 upper-level Science credits and often take more challenging courses; they will have more flexibility in the</p> |
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| | <p>courses that are used to calculate the average. Using the term “distinction” rather than “honours” will avoid using the same term for the graduating standing as for some programs offered in Science. In terms of an annual designation of outstanding achievement, the Faculties of Applied Science, Arts, and Commerce & Business Administration all use a straight average (80 or 85%) on a minimum course load (27 or 30 credits) to determine the standing after each Winter Session. In contrast, the Science calculation has been more generous, using the best average on only 27 credits and having two levels of achievement (A^- and A^+ averages). The basic structure is retained but the calculation is simplified to a straight average on all courses attempted, bringing the faculty closer to the practices in other faculties.</p> |
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CELLULAR AND PHYSIOLOGICAL SCIENCES

Effective Date for Change: 08W

Proposed Calendar Entry:

Co-operative Education Program

The Department offers an optional five- year Co-operative Education Program for students in the Honours Physiology (B.Sc.) Program. In addition to the traditional laboratory based university instruction, the students will receive 12 or 16 months of work placement (i.e. three or four work terms) supervised by scientists in industrial, academic or governmental positions. Work placements typically start in May or September after the completion of third year and continue to the beginning of Fourth year. Selection of students will be based on academic performance and general suitability to the work environment as determined by resume and interview. The total enrolment will be subject to the availability of appropriate work placements. The work placements are arranged by mutual agreement between students and employing organizations. Students in the Co-op program register in PHYL 398, 399, 498 and pay the Cooperative Education program fee per course and Co-op Workshop fees (See Index for Fees - Special Fees)

[<http://www.students.ubc.ca/calendar/index.cfm?tree=14,268,796,0#10372>].

Graduation in the Co-operative Education requires a student to complete PHYL 398, 399, 498 in addition to the normal academic requirements. PHYL 499 is optional for students who wish to have four work placements.

Detailed information on the program can be obtained from the Director for the Physiology Co-op Program or from the Office of Co-operative Education in Room 170, Chemistry and Physics Building, The University of British Columbia, 6221 University Boulevard, Vancouver, B.C. V6T 1Z1

Present Calendar Entry:

None.

Action: General description of new Co-operative Education program for students in Honours Physiology (B.Sc.) program and its admission process to be placed at the very end of the description of the Physiology programs in the Calendar, i.e. after the section 'PHYSIOLOGY' on p. 453 in the current Calendar and before the section 'HONOURS PROGRAM' describing the course listings.

Rationale: It is essential that, like other students in the Faculty of Science, a co-op option is available to the Honours Physiology (B.Sc.) students so that they can explore research and working options in industrial, academic and governmental settings.

Admission to Honours undergraduate programs in Science is currently handled through departments. The admission statement is included to clarify this procedure.

Admission

**Students must apply to the Department for admission and continuation in the B.Sc. or B.Sc. Co-op program no later than March 31 prior to the third year. Application forms are available on the department website:
www.cellphys.ubc.ca or www.physiology.ubc.ca.**

PSYCHOLOGY

Effective Date for Change: 08W

Proposed Calendar Entry:

Co-operative Education Program in Psychology (B.Sc.).

Co-operative Education is a process of education which integrates academic study with related and supervised work experience in co-operating employer organizations.

An optional Co-operative Education Program is available for students in the Psychology (B.Sc.) Program. The Program, which is intended to help prepare interested and qualified students for research careers in industry, university, or government settings, includes at least 16 months of work placement (i.e., at least four work terms) supervised by scientists in industrial, academic or governmental positions. Faculty advisers or Co-op coordinators visit students at their place of work and provide advice on work term reports required of all students in the program. The four work terms are normally taken consecutively beginning in Summer Session after third year and ending in Summer Session after fourth year. To be eligible, students must be in the Psychology (B.Sc.) program, and they must have completed at least one academic term in this program. Admission is by application to the Science Co-op Office. Selection of students is based on academic performance and general suitability to the work environment, as determined by CV and interview. The total enrolment is subject to the availability of appropriate work placements. The work placements are arranged by mutual agreement between students and employing organizations. Participating students register for PSYC 398, 399, 498, or 499, as appropriate, and pay the Cooperative Education program fee per course as well as Co-op Workshop fees (see Index for Fees - Special Fees). [http://www.students.ubc.ca/calendar/index.cfm?tree=14,268,796,0#10372]

<http://www.students.ubc.ca/calendar/index.cfm?tree=12,215,410,436#10556>

Present Calendar Entry:

None.

Action: General description of new Co-operative Education program for the Psychology (B.Sc.) Program, to be placed under the heading 'Co-operative Education Program in Psychology (B.Sc.)' before "Programs" section.

Rationale: Other students in the Faculty of Science, have access to co-op. It is essential that a Co-op option is available to the Psychology (B.Sc.) students so that they can explore research and working options in industrial, academic, and governmental settings.

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| <p>Graduation in the Co-operative Education Program for Psychology (B.Sc.) requires a student to complete PSYC 398, 399, 498 and 499, in addition to the normal academic requirements. Students may choose appropriate timing of their work terms, but some of the four work placements required should not be in the summer.</p> <p>Detailed information on the program can be obtained from the Director for the Psychology (B.Sc.) Program or from the Office of Co-operative Education in Room 170, Chemistry and Physics Building, The University of British Columbia, 6221 University Boulevard, Vancouver, B.C. V6T 1Z1</p> | |
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