THE UNIVERSITY OF BRITISH COLUMBIA | OKANAGAN

OKANAGAN SENATE SECRETARIAT
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24 March 2010

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 courses brought forward by the Faculties of Arts and Sciences and Creative and Critical Studies as set out in the attached proposals.***

Respectfully submitted,

Dr. Robert Campbell
Chair, Curriculum Committee

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To: **Okanagan Senate**

From: **Senate Curriculum Committee**

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

Attached please find the following for your consideration:

Faculty of Arts and Sciences

1. The following new courses:
    a. BIOC 420 (3-9) d Special Topics in Biochemistry
    b. PHYS 321 (3) Stellar Astrophysics
    c. PHYS 474 (3) Solid State Physics

From the Faculty of Creative and Critical Studies

2. The following new course:
    a. ARTH 470 (3/9) c Directed Studies

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

Category: 1

Faculty: Arts and Sciences **Unit/Dept.:** Biology and Chemistry **Faculty Approval Date:** Oct. 13, 2009 **Effective Session:** 2010W	**Date:** August 24, 2009 **Contact Person:** J. Boon/C. Saucier **Phone:** 250.807.9545/250.807.8645 **Email:** joyce.boon@ubc.ca/ cedric.saucier@ubc.ca/
Proposed Calendar Entry: **BIOC 420 (3-9) d Special Topics in Biochemistry** **Advanced or specialized biochemistry topic. Seminar presentation required using original literature in the field. Repeatable for up to 9 credits with different topics. [3-0-1]** ***Prerequisite:*** **Third-year standing in the B.Sc. program and permission of the unit.**	**Draft Calendar URL:** N/A **Present Calendar Entry:** **Type of Action:** Add a special topics course to the BIOC major program. **Rationale:** With new faculty joining Chemistry and Biology, having a special topics course designation available will aid in the development and addition of new courses to the BIOC program.

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New or Change to Course or Program

Category: 1

Faculty: Arts and Sciences **Unit:** Unit 5: Math, Stats, and Physics **Faculty Approval Date:** February 9, 2010 **Effective Session:** 2010W	**Date:** January 15, 2010 **Contact Person:** Erik Rosolowsky **Phone:** 250.807.9623 **Email:** erik.rosolowsky@ubc.ca
Proposed Calendar Entry: **PHYS 321 (3) Stellar Astrophysics** **Stellar structure and evolution. Hydrostatics, radiative transfer, fusion, equations of state. Main sequence stellar models. Low and high mass stellar post main sequence evolution. Stellar remnants. [3-0-0]** ***Prerequisite*: All of PHYS 200, PHYS 216.**	**Draft Calendar URL:** N/A **Present Calendar Entry:** **Type of Action:** New course. **Rationale:** The proposed new course will develop the upper-level physics offerings by including a stellar astrophysics course. The stellar astrophysics course has been taught previously (2008W2) as a Special Topics in Physics course, which drew 18 students. The course is also added to the allowed courses for a Physics major in the "elective" set of courses which includes credits for Special Topics, Biophysics, and other courses intended for the diversity of the Physics major. Prerequisites were chosen to be Relativity and Quanta (PHYS 200), since much of the material relies on basic quantum mechanics and relativistic considerations and Mechanics I (PHYS 216), primarily because the mathematical background closely mimics the techniques used in Mechanics.

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

Category: 1

Faculty: Arts and Sciences **Unit:** Unit 5: Math, Stats, and Physics **Faculty Approval Date:** February 9, 2010 **Effective Session:** 2010W	**Date:** January 20, 2010 **Contact Person:** Dan Murray **Phone:** 250.807.9513 **Email:** daniel.murray@ubc.ca
Proposed Calendar Entry: **PHYS 474 (3) Solid State Physics** **Symmetry of crystal structures, reciprocal lattice, band theory, conduction in metals and semiconductors, phonons and applications to nanostructures. [3-0-0]** ***Prerequisite*: All of PHYS 200, PHYS 216.**	**Draft Calendar URL:** N/A **Present Calendar Entry:** **Type of Action:** New course. **Rationale:** The proposed new course will develop the upper-level Physics offerings by including a Solid State Physics course. This is normally included in undergraduate Physics curricula, and fills a conspicuous void in ours. Prerequisites were chosen to be Relativity and Quanta (PHYS 200), since much of the material relies on basic Quantum Mechanics and Mechanics I (PHYS 216), primarily because of the mathematical background.

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

Category: 1

Faculty: Creative and Critical Studies **Department/Unit:** Critical Studies **Faculty Approval Date:** February 9, 2010 **Effective Session:** 2010W	**Date:** January 18, 2010 **Contact Person:** Hussein Keshani **Phone:** 250.807. 9770 **Email:** hussein.keshani@ubc.ca
Proposed Calendar Entry: **ARTH 470 (3/9) c Directed Studies** **Directed readings and written assignments taken under the supervision of a faculty member for students pursuing an advanced investigation of an area of interest. Normally available to students majoring in Art History and Visual Culture. [3-0-0]** ***Prerequisite*: Third-year standing and permission of the department of Critical Studies and the instructor.**	**Draft Calendar URL: N/A** **Present Calendar Entry: N/A** **Type of Action:** New course. **Rationale:** The revised degree requirements for the Art History and Visual Culture major require 6 credits of 400-level ARTH courses. This course will give students additional options for completing the requirements.