THE UNIVERSITY OF BRITISH COLUMBIA

OKANAGAN SENATE SECRETARIAT
Enrolment Services
Senate and Curriculum Services

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March 3, 2011

To: **Okanagan Senate**

From: **Curriculum Committee**

Subject: **February 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 Applied Science, and Arts and Sciences as set out in the attached proposals.***

For the Committee,
Dean Marvin Krank
Chair, Curriculum Committee

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March 3, 2011

To: **Okanagan Senate**

From: **Curriculum Committee**

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

Enclosed please find the following for your consideration:

From the Faculty of Applied Science

1. The following new courses:
    a. ENGR 503 (3) Selected Topics in Advanced Engineering Analysis
    b. ENGR 531 (3) Infrastructure Management

From the Faculty of Arts and Sciences

2. The following new courses:
    a. ASTR 210 (3) Physical Processes in the Universe
    b. ECON 295 (3) Managerial Economics
    c. ENGL 234 (3) Indigenous Literature in Canada

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Curriculum Proposal Form
New Course – Okanagan Campus

Category: 1

Faculty: Applied Science **Department/Unit**: School of Engineering **Faculty Approval Date:** October 22, 2010 **Effective Session:** 2010W	**Date:** January 14, 2011 **Contact Person:** Dwayne Tannant **Phone:** 250-807-8067 **Email:** dwayne.tannant@ubc.ca
Proposed Calendar Entry: **ENGR 503 (3) Selected Topics in Advanced Engineering Analysis** **Topics in advanced mathematical and numerical methods used in engineering problems.**	**Draft Calendar URL:** N/A **Present Calendar Entry:** N/A **Type of Action:** New course. **Rationale:** This new course is added to support graduate students in the mechanical, civil and electrical engineering programs at UBC's Okanagan campus. It will present the common methods in applied mathematics and numerical analysis relevant to engineering problems. It is expected to be offered every year.

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Curriculum Proposal Form
New Course – Okanagan Campus

Category: 1

Faculty: Applied Science **Department/Unit**: School of Engineering **Faculty Approval Date:** October 22, 2010 **Effective Session:** 2010W	**Date:** January 14, 2011 **Contact Person:** Dwayne Tannant **Phone:** 250-807-8067 **Email:** dwayne.tannant@ubc.ca
Proposed Calendar Entry: **ENGR 531 (3) Infrastructure Management** **Asset management, municipal infrastructure systems, performance and prioritization measures, data management, life cycle costing, decision support tools, integrated approach. Credit will not be granted for both ENGR 531 and ENGR 431.**	**Draft Calendar URL:** N/A **Present Calendar Entry:** N/A **Type of Action:** New course. **Rationale:** This course is approved as ENGR 431, an undergraduate course; this is the graduate level version of this course to support M.Eng./M.A.Sc. and Ph.D. programs in the School of Engineering, Faculty of Applied Science. The graduate course has individual study that requires students to apply advanced decision support tool for infrastructure asset management throughout its lifecycle. As well, the graduate course has additional readings and different grading schemes.

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Curriculum Proposal Form
New Course – Okanagan Campus

Category: 1

Faculty: Arts & Sciences **Unit:** Unit 5 **Faculty Approval Date:** January 11, 2011 **Effective Session:** 2011W	**Date:** November 8, 2010 **Contact Person:** Erik Rosolowsky **Phone:** 250.807.9623 **Email:** erik.rosolowsky@ubc.ca
Proposed Calendar Entry: **ASTR 210 (3) Physical Processes in the Universe** **Introduction to observational conventions. Applications of physics to astronomical systems, including orbital mechanics, radiative processes. Introduction to stellar properties and atmospheres, accretion, and general relativity including black holes and modern cosmology. [3-0-0] *Prerequisites:* MATH 101 and either (a) PHYS 102 or (b) a score of 68% or higher in PHYS 112 and a score of 68% or higher in PHYS 122.**	**Draft Calendar URL:** N/A **Present Calendar Entry:** N/A **Type of Action:** New course **Rationale:** This is a new course, which develops the astrophysics component of the physics program. The course is targeted at second-year physics majors, providing an introduction to a subfield of physics at an intermediate level. Course topics are chosen to explore the introductory physical basis of many astrophysical phenomena. The physics program is introducing the structure needed for a concentration in astrophysics within the Physics major and this course represents a key prerequisite course for advanced course offerings.

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Curriculum Proposal Form
New Course – Okanagan Campus

Category: 1

Faculty: Arts and Sciences **Unit:** Unit 6 **Faculty Approval Date:** January 11, 2011 **Effective Session:** 2011W	**Date:** December 1, 2010 **Contact Person:** Peter Wylie **Phone:** 250-807-9341 **Email:** peter.wylie@ubc.ca
Proposed Calendar Entry: **ECON 295 (3) Managerial Economics** **Economic foundations of managerial decision-making. Demand theory, cost and production, market structure, competitive strategy, organization of the firm, welfare-economic foundations of business regulation. [3-0-0]** ***Prerequisite*: ECON 101, ECON 102.**	**Draft Calendar URL:** N/A **Present Calendar Entry:** N/A **Type of Action:** New course. **Rationale** The Department of Economics perceives a demand for a course on the economics of managerial decision-making. In 2010W there are approximately 275 Bachelor of Management student registrations in 200- and 300-level economics courses (145 at 200 level and 130 at 300-level). Beginning in 2011W the department will limit non-BA and BSc student registration in 200 and 300 level economics courses due to capacity constraints and in order to preserve the available seats at these levels for BA and BSc students.

	The provision of this course is hence designed to redirect demand for economics courses beyond the 100 level and from students outside of the BA and BSc programs to a course that is particularly useful to students in other faculties (e.g. Bachelor of Management students) who might wish to study the economics of the management of businesses, corporations and other public or private organizations (e.g. in health, education, engineering, social services, etc). The course will also be attractive to Economics major and minor students and other non-Economics major and minor students in the BA and BSc programs. We have designed the course to be fundamentally similar, with the same prerequisites and course Calendar description, to the course at UBC Vancouver, COMM 295, a required course for the Bachelor of Commerce degree there in the Sauder School of Business, and cross-listed as FRE 295, a required course in certain degree specializations (e.g. Food and Resource Economics) in the Faculty of Land and Food Systems.

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Curriculum Proposal Form
New Course – Okanagan Campus

Category: 1

Faculty/School: FCCS **Department/Unit:** Critical Studies **Faculty/School Approval Date:** January 17, 2011 **Effective Session:** 2011W	**Date:** November 19, 2010 **Contact Person:** Allison Hargreaves **Phone:** 250-807-8446 **Email:** allison.hargreaves@ubc.ca
Proposed Calendar Entry: **ENGL 234 (3) Indigenous Literature in Canada** **Survey of indigenous-authored fiction, poetry, non-fiction prose, and drama in Canada. [3-0-0]** ***Prerequisites*: 6 credits of 100-level ENGL.**	**Draft Calendar URL:** N/A **Present Calendar Entry:** N/A **Type of Action:** New course proposed: 200-level survey of Indigenous Literature in Canada **Rationale:** To increase English program's offerings in Indigenous literature beyond its existing course, which is over-subscribed (ENGL 473). 200-level course is needed to introduce students to key readings and contexts in Indigenous literature.