

THE UNIVERSITY OF BRITISH COLUMBIA | OKANAGAN



OKANAGAN SENATE SECRETARIAT

Enrolment Services

Senate and Curriculum Services

3333 University Way

Kelowna, BC · V1V 1V7

Tel: (250) 807-9619 · Fax: (250) 807-8007

kelly.ross@ubc.ca

10 September 2008

To: Okanagan Senate

From: Senate Curriculum Committee

Subject: August 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 graduate courses brought forward by the Faculty of Applied Science, as set out in the attached proposals.

Respectfully submitted,
Dr. Jennifer Gustar
Chair, Curriculum Committee



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Attached please find the following for your consideration:

Faculty of Applied Science

1. The following new graduate courses:
 - a. APSC 572: Environmental Engineering Laboratory
 - b. APSC 573: Bridge Engineering
 - c. APSC 576: FRP for Construction and Repair of Structures
 - d. APSC 577: Pre-stressed Concrete
 - e. APSC 578: Earthquake Engineering
 - f. APSC 579: Strengthening and Rehabilitation of Concrete Structures



UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

Faculty: Applied Science Department: School of Engineering Faculty Approval Date: July 3, 2008 Effective Session W ____ Term _1_ Year _2008__ for Change	Date: July 14, 2008 Contact Person: Spiro Yannacopoulos Phone: 807-8714 Email: spiro.yannacopoulos@ubc.ca
Proposed Calendar Entry: APSC 578 (3) Earthquake Engineering Strong ground motion; single-degree-of-freedom systems; earthquake response of linear and inelastic systems; multi-degree-of-freedom systems; earthquake response and design; building design consideration.	URL: n/a Present Calendar Entry: n/a Type of Action: New Course Rationale: This new course is added to support the M.Eng., M.A.Sc., and Ph.D. program in the School of Engineering, Faculty of Applied Science



UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

Faculty: Applied Science Department: School of Engineering Faculty Approval Date: July 3, 2008 Effective Session W ____ Term _1_ Year _2008__ for Change	Date: July 14, 2008 Contact Person: Spiro Yannacopoulos Phone: 807-8714 Email: spiro.yannacopoulos@ubc.ca
Proposed Calendar Entry: APSC 577 (3) Pre-stressed Concrete Design and behaviour of pre-stressed concrete structural systems. Material characteristics pre-stress losses, working strength design, ultimate strength design and behaviour of pres-stressed structures.	URL: n/a Present Calendar Entry: n/a Type of Action: New Course Rationale: This new course is added to support the M.Eng., M.A.Sc., and Ph.D. program in the School of Engineering, Faculty of Applied Science



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Category: (1)

Faculty: Applied Science Department: School of Engineering Faculty Approval Date: July 3, 2008 Effective Session W ____ Term _1_ Year _2008__ for Change	Date: July 14, 2008 Contact Person: Spiro Yannacopoulos Phone: 807-8714 Email: spiro.yannacopoulos@ubc.ca
Proposed Calendar Entry: APSC 576 (3) FRP for Construction and Repair of Structures Use of Fibre Reinforcing Polymer (FRP) reinforcement in structural engineering applications. Design, repair, strengthening, pre-stressing, fire resistance, and durability using FRP materials.	URL: n/a Present Calendar Entry: n/a Type of Action: New Course Rationale: This new course is added to support the M.Eng., M.A.Sc., and Ph.D. program in the School of Engineering, Faculty of Applied Science.



UBC Curriculum Proposal Form Change to Course or Program

Category: (1)

Faculty: Applied Science Department: School of Engineering Faculty Approval Date: July 3, 2008 Effective Session W ____ Term _1_ Year _2008_ for Change	Date: July 14, 2008 Contact Person: Spiro Yannacopoulos Phone: 807-8714 Email: spiro.yannacopoulos@ubc.ca
Proposed Calendar Entry: APSC 573 (3) Bridge Engineering Design and behaviour of bridge structures, types of bridges, influence lines, loads and load distribution, and serviceability. Deck, superstructure, and substructure design.	URL: n/a Present Calendar Entry: n/a Type of Action: New Course Rationale: This new course is added to support the M.Eng., M.A.Sc., and Ph.D. program in the School of Engineering, Faculty of Applied Science



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Proposed Calendar Entry: APSC 572 (3) Environmental Engineering Laboratory Testing procedures used in water quality studies and in the operation of water and wastewater treatment plants.	URL: n/a Present Calendar Entry: n/a Type of Action: New Course Rationale: This new course is added to support the M.Eng., M.A.Sc., and Ph.D. program in the School of Engineering, Faculty of Applied Science.



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Faculty: Applied Science Department: School of Engineering Faculty Approval Date: July 3, 2008 Effective Session W ____ Term _1_ Year _2008__ for Change	Date: July 14, 2008 Contact Person: Spiro Yannacopoulos Phone: 807-8714 Email: spiro.yannacopoulos@ubc.ca
Proposed Calendar Entry: APSC 579 (3) Strengthening and Rehabilitation of Concrete Structures Assessment, rehabilitation and strengthening of buildings and bridges. Concrete damage, instrumentation and non-destructive test methods, conventional and innovative repair techniques.	URL: n/a Present Calendar Entry: n/a Type of Action: New Course Rationale: This new course is added to support the M.Eng., M.A.Sc., and Ph.D. program in the School of Engineering, Faculty of Applied Science