



OFFICE OF THE ASSOCIATE VICE-PRESIDENT, ACADEMIC

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www.sfu.ca/vpacademic**MEMORANDUM**

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<b>ATTENTION</b>	Senate	<b>DATE</b>	June 7, 2013
<b>FROM</b>	Gordon Myers, Chair Senate Committee on Undergraduate Studies	<b>PAGES</b>	1/1
<b>RE:</b>	Faculty of Science (SCUS 13-28)		

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A handwritten signature in blue ink, appearing to be "Gordon Myers", is written over the signature line and extends into the right margin.**For information:**

Acting under delegated authority at its meeting of June 6, 2013, SCUS approved the following curriculum revisions effective Spring 2014:

1. Department of Molecular Biology and Biochemistry (SCUS 13-28a)

(i) New Course Proposal: MBB 324-3, Protein Biochemistry

2. Department of Biomedical Physiology and Kinesiology (SCUS 13-28b)

(i) New Course Proposal: BPK 482-3, Ergonomics and Rehabilitation

(ii) Deletion of BPK 380, 488

(iii) Description and/or Prerequisite change to BPK 448, 484


**COURSE SUBJECT/NUMBER** MBB 324

**COURSE TITLE**

LONG — for Calendar/schedule, no more than 100 characters including spaces and punctuation

Protein Biochemistry

**AND**

SHORT — for enrollment/transcript, no more than 30 characters including spaces and punctuation

Protein Biochemistry

**CAMPUS** where course will be taught:  Burnaby  Surrey  Vancouver  Great Northern Way  Off campus

**COURSE DESCRIPTION (FOR CALENDAR). 50-60 WORDS MAXIMUM. ATTACH A COURSE OUTLINE TO THIS PROPOSAL.**

An exploration of the fundamental aspects of proteins; their chemical and physical nature, their synthesis, stability and turnover, as well as their structure and function. Methods of protein analysis and structure determination will be presented

**REPEAT FOR CREDIT**  NO  YES How many times? Within a term?  YES  NO

**LIBRARY RESOURCES**

NOTE: Senate has approved (S.93-11) that no new course should be approved by Senate until funding has been committed for necessary library materials. Each new course proposal must be accompanied by a library report and, if appropriate, confirmation that funding arrangements have been addressed.

Library report status  status  approved <http://www.lib.sfu.ca/collections/course-assessments>

**RATIONALE FOR INTRODUCTION OF THIS COURSE**

The Department of Molecular Biology and Biochemistry has a number of 400 level advanced Protein Biochemistry courses. Included are courses on structure-function, biogenesis and degradation, biomembranes, transport and special topics. While MBB222 offers a basic introduction to protein biochemistry, what the MBB department has always lacked is a third year foundation course on the fundamental aspects of proteins that can serve as the foundation for our 400 level more specialized protein biochemistry courses. This new course will fill that gap in our current curriculum. Making MBB222 the pre-requisite for this course allows chemistry majors to include this course in their program.

**SCHEDULING AND ENROLLMENT INFORMATION**

 Indicate effective **term and year** course would first be offered and planned **frequency** of offering thereafter:

1141; Spring 2014

 Will this be a required or elective course in the curriculum?  Required  Elective

What is the probable enrollment when offered? Estimate: 100 students





**RESOURCES**

List any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc:

**OTHER IMPLICATIONS**

- Articulation agreement reviewed?  YES  NO  Not applicable
- Exam required:  YES  NO
- Criminal Record Check required:  YES  NO

**APPROVALS: APPROVAL IS SIGNIFIED BY DATE AND APPROPRIATE SIGNATURE.**

- 1 Departmental approval indicates that the Department or School has approved the content of the course, and has consulted with other Departments/Schools/Faculties regarding proposed course content and overlap issues.

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Chair, Department/School Date

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Chair, Faculty Curriculum Committee Date

- 2 Faculty approval indicates that all the necessary course content and overlap concerns have been resolved, and that the Faculty/School/Department commits to providing the required Library funds.

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Dean or designate Date

LIST which other Departments, Schools and Faculties have been consulted regarding the proposed course content, including overlap issues. Attach documentary evidence of responses.

Chemistry has been consulted because this course would be available to their students given the pre-requisite of MBB222 - which is the only MBB course Chemistry students are required to take. Chemistry is highly supportive - see attached letter. Note that students in Bisc, BPK and HSCI would also have access to this course since they also take MBB222 (in addition to MBB231 with 231 being the usual pre-req for MBB300 level courses but not for MBB324

Other Faculties' approval indicates that the Dean(s) or Designate of other Faculties AFFECTED by the proposed new course support(s) the approval of the new course:

\_\_\_\_\_ Date \_\_\_\_\_

\_\_\_\_\_ Date \_\_\_\_\_

- 3 SCUS approval indicates that the course has been approved for implementation subject, where appropriate, to financial issues being addressed.

**COURSE APPROVED BY SCUS (Chair of SCUS):**

\_\_\_\_\_ Date \_\_\_\_\_

**COURSE SUBJECT/NUMBER****COURSE TITLE**

LONG — for Calendar/schedule, no more than 100 characters including spaces and punctuation

BPK 482-3 Ergonomics and Rehabilitation

**AND**

SHORT — for enrollment/transcript, no more than 30 characters including spaces and punctuation

Ergonomics and Rehabilitation

**COURSE DESCRIPTION (FOR CALENDAR). 50-60 WORDS MAXIMUM. ATTACH A COURSE OUTLINE TO THIS PROPOSAL.**

Examines the role of ergonomics within the rehabilitation process. Provides knowledge about tools and techniques for improving the rehabilitation process for patients, health care providers and organizations.

**LIBRARY RESOURCES**

NOTE: Senate has approved (S.93-11) that no new course should be approved by Senate until funding has been committed for necessary library materials. Each new course proposal must be accompanied by a library report and, if appropriate, confirmation that funding arrangements have been addressed.

Campus where course will be taught:  Burnaby  Surrey  Vancouver  Great Northern Way  Off campus

Library report status

**RATIONALE FOR INTRODUCTION OF THIS COURSE**

Provide details on how existing instructional resources will be redistributed to accommodate this new course. For example, will another course be eliminated or will the frequency of offering of other courses be reduced; are there changes in pedagogical style or class sizes that allow for this additional course offering?

Our current concentration in Ergonomics is being replaced by a certificate in Occupational Ergonomics. The creation of this new course is tied to the deletion of BPK 380 and BPK 488. Content relevant to Ergonomics and Rehabilitation from these deleted courses has been refocused to align with the new certificate in Occupational Ergonomics.

**SCHEDULING AND ENROLLMENT INFORMATION**

Indicate effective **term and year** course would first be offered and planned **frequency** of offering thereafter:

Summer 2014

Will this be a required or elective course in the curriculum?  Required  Elective

What is the probable enrollment when offered? Estimate: 30

**CREDITS**

Indicate number of credits for: Lecture 3 Seminar Tutorial Lab



**FACULTY** Which of your present CFL faculty have the expertise to offer this course?

Anne-Kristina Arnold, Tony Leyland and Stephen Brown

**WQB DESIGNATION**

(attach approval from Curriculum Office)

**PREREQUISITE**

Does this course replicate the content of a previously-approved course to such an extent that students should not receive credit for both courses.? If so, this should be **noted in the prerequisiite.** *AND*

BPK (or KIN)180W, 201, 326, 381. Students must successfully complete a Criminal Record Check.

**COREQUISITE**

BPK 481

**STUDENT LEARNING OUTCOMES**

Upon satisfactory completion of the course students will be able to:

Learning Outcomes

1. Develop a framework of strategies to facilitate life-long learning in Ergonomics
2. Appreciate the multidisciplinary nature of occupational ergonomics
3. Describe the role of ergonomics in the rehabilitation process
4. Engage in systems design analysis and appreciate the influence of elements and interactions



**FEES**

Are there any proposed student fees associated with this course other than tuition fees?  YES  NO  
(If yes, attach mandatory supplementary fee approval form.)

**RESOURCES**

List any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc:

Articulation agreement reviewed?  YES  NO  Not applicable

**OTHER IMPLICATIONS**

Two courses are being deleted, some of the material is being combined into this new course.

Exam required:  YES  NO  
Criminal Record Check required:  YES  NO



**APPROVALS**

- 1 Departmental approval indicates that the Department or School has approved the content of the course, and has consulted with other Departments/Schools/Faculties regarding proposed course content and overlap issues.

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Chair, Department/School Date

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Chair, Faculty Curriculum Committee Date

- 2 Faculty approval indicates that all the necessary course content and overlap concerns have been resolved, and that the Faculty/School/Department commits to providing the required Library funds.

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Dean or designate Date

LIST which other Departments, Schools and Faculties have been consulted regarding the proposed course content, including overlap issues. Attach documentary evidence of responses.

No consultation as this area is unique to our Department.

Other Faculties approval indicated that the Dean(s) or Designate of other Faculties AFFECTED by the proposed new course support(s) the approval of the new course:

\_\_\_\_\_ Date \_\_\_\_\_

\_\_\_\_\_ Date \_\_\_\_\_

- 3 SCUS approval indicates that the course has been approved for implementation subject, where appropriate, to financial issues being addressed.

COURSE APPROVED BY SCUS (Chair of SCUS):

\_\_\_\_\_ Date \_\_\_\_\_

**APPROVAL IS SIGNIFIED BY DATE AND APPROPRIATE SIGNATURE.**



**EXISTING COURSE, CHANGES RECOMMENDED**

SCUS 13-28b (ii)

Please check appropriate revision(s):

Course number    Credit    Title    Description    Prerequisite    Course deletion    Learning Outcomes

Indicate number of hours for: Lecture \_\_\_\_\_ Seminar \_\_\_\_\_ Tutorial \_\_\_\_\_ Lab \_\_\_\_\_

<b>FROM</b>		<b>TO</b>	
Course Subject/Number	<u>BPK 380</u>	Course Subject/Number	<u>BPK 380</u>
Credits	<u>3</u>	Credits	<u>3</u>

**TITLE**

(1) Long title for calendar and schedule, no more than 100 characters including spaces and punctuation.

**FROM:** \_\_\_\_\_ **TO:** \_\_\_\_\_

Occupational Biomechanics

(2) Short title for enrollment and transcript, no more than 30 characters including spaces and punctuation.

**FROM:** \_\_\_\_\_ **TO:** \_\_\_\_\_

**DESCRIPTION**

**FROM:** \_\_\_\_\_ **TO:** \_\_\_\_\_

**PREREQUISITE**

Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses?

If so, this should be **noted in the prerequisite**.

**FROM:** \_\_\_\_\_ **TO:** \_\_\_\_\_

**LEARNING OUTCOMES**

**RATIONALE**

Our current concentration in Ergonomics is being replaced by a certificate in Occupational Ergonomics. BPK 380 and BPK 488 are being deleted from our program and will be replaced by one new course, BPK 482 Ergonomics and Rehabilitation.

Effective term and year Spring 2014





**EXISTING COURSE, CHANGES RECOMMENDED**

Please check appropriate revision(s):

 Course number     Credit     Title     Description     Prerequisite     Course deletion     Learning Outcomes

Indicate number of hours for: Lecture \_\_\_\_\_ Seminar \_\_\_\_\_ Tutorial \_\_\_\_\_ Lab \_\_\_\_\_

**FROM** **TO**

Course Subject/Number BPK 448 Course Subject/Number BPK 448

Credits 3 Credits 3

**TITLE**

(1) Long title for calendar and schedule, no more than 100 characters including spaces and punctuation.

**FROM:** \_\_\_\_\_ **TO:** \_\_\_\_\_

(2) Short title for enrollment and transcript, no more than 30 characters including spaces and punctuation.

**FROM:** \_\_\_\_\_ **TO:** Rehabilitation of Movement Control**DESCRIPTION****FROM:** \_\_\_\_\_ **DESCRIPTION****TO:** \_\_\_\_\_**PREREQUISITE**Does this course replicate the content of a previously approved course to such an extent that students should not receive credit for both courses? If so, this should be **noted in the prerequisite**.**FROM:** Prerequisite: BPK (or KIN) 201, 207 and 306, or for biomedical engineering students, BPK (or KIN) 201, 208 and 308.**PREREQUISITE****TO:** BPK (or KIN) 201 or 207, and 306, or for biomedical engineering students, BPK (or KIN) 201, 208 and 308.**LEARNING OUTCOMES****RATIONALE**

Allowing either BPK 201 or BPK 207 instead of both, will open up this course to all Majors in our programs.

Effective term and year Spring 2014

