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MEMORANDUM

ATTENTION	Senate	DATE	February 3, 2017
FROM	Wade Parkhouse, Acting Chair Senate Committee on Undergraduate Studies	PAGES	1/1
RE:	New Course Proposals (SCUS 17-07)		

For information:

Acting under delegated authority at its meeting of February 2, 2017 SCUS approved the following curriculum revisions effective Fall 2017.

a. Faculty of Science1. Department of Biomedical Physiology and Kinesiology

(i) New Course Proposals:

- BPK 141-3, Theory of Exercise Program Design with B-Sci designation

2. Department of Chemistry

- (i) New Course Proposal: CHEM 449-3, Special Topics in Materials Chemistry



COURSE SUBJECT/NUMBER BPK 141

COURSE TITLE

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

Theory of Exercise Program Design

AND

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

Exercise Program Design

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 introduction to the anatomical, physiological and biomechanical knowledge required to develop effective training regimes and implementation of this knowledge in exercise program design.

Prerequisite: None. Students with credit for KIN 143 or BPK 143 may not take this course for further credit. Breadth-Science.

REPEAT FOR CREDIT NO YES How many times? 1 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 **As this course is a renumbering of an existing course, no additional library resources are required.**

RATIONALE FOR INTRODUCTION OF THIS COURSE

BPK 141C will replace BPK 143C as a CODE offering. BPK 143 will only be offered on campus. The issue with BPK 143C as a CODE offering was the inability to effectively train and monitor students in movement analysis and practical aspects of exercise programming. This is regarded as inadequate training for Kinesiology Majors and Minors. All Kinesiology Majors and Minors will be required to take the BPK 143 on campus. BPK 143C has served as an important Breadth-Science service course and it is preferable that this material is still available to the wider undergraduate community. The proposed BPK 141 course is intended to take over the role of a Breadth-Science easily accessed by non-BPK undergraduates. The theoretical material of BPK 143 is retained in this course thus maintaining the breadth of material (the required text will be the same) but the practical components present in BPK 143 cannot be taught in an on-line course. BPK 141 will provide students with a good understanding of the theoretical aspects of exercise physiology and athletic conditioning.

SCHEDULING AND ENROLLMENT INFORMATION

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

FALL 2017. As with the current BPK 143C, BPK 141C will be offered every semester. Each semester will have two sections of 60 students.

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

What is the probable enrollment when offered? Estimate: 120 per semester



CREDITS

Indicate number of credits (units): **3**

Indicate number of hours for:	Lecture	Seminar	Tutorial	Lab	Other	CODE
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FACULTY Which of your present CFL faculty have the expertise to offer this course?

T Leyland, R Dill, D Clarke

WQB DESIGNATION (attach approval from Curriculum Office)

Breadth Science

Assumes the approval from BPK 143 confirmed by email from Susan Rhodes 9th Jan 2017

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**.

Yes this course has the same theoretical content as BPK 143 without the practical components and as such the prerequisite will state: Students with credit for KIN 143 or BPK 143 may not take this course for further credit.

COREQUISITE

None

STUDENT LEARNING OUTCOMES

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

- Explain the four basic principles of physiological conditioning.
- Use critical-thinking skills when evaluating the efficacy of exercise programs..
- Define anatomical position, directional terms and major joint actions.
- Name the major bones and major muscles of the body and muscle action in relation to fundamental movement patterns.
- Describe the anatomy and physiology of oxygen transport and energy systems.
- Describe factors governing which fuels are used during exercise.
- Understand the basics of advanced aerobic programming.
- Describe resistance-training programs that focus on muscular strength, hypertrophy, power, endurance, and/or neuromotor coordination.
- Describe mobility and flexibility exercises for major muscles and joints.
- Describe the benefits of including aerobic, anaerobic and resistance exercise and moderate

FEES

Are there any proposed student fees associated with this course other than tuition fees? YES NO



RESOURCES

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

None required -- this is a CODE course and does not require the students to be assigned any equipment.

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.

Digitally signed by Angela Brooks-Wilson
DN: cn=Angela Brooks-Wilson, ou=Simon Fraser University, ou=Biomedical Physiology
and Kinesiology, email=aw@sfu.ca, c=CA
Date: 2017.01.02 13:38:03 -0800

Chair, Department/School

Date

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.

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.

Email of support provided by Madelaine Bufus indicating acceptance of this proposal by CODE.

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 _____



MEMORANDUM

ATTENTION Carl Lowenberger, Associate Dean,
Faculty of Science

DATE January 23, 2017

FROM Susan Rhodes, Director
University Curriculum & Institutional Liaison

PAGES 1

RE: BPK B-Sci designation approval

The University Curriculum Office has approved **B-Sci** designation for the following proposed BPK course, effective Fall 2017 (1177):

BPK 141-3 Theory of Exercise Program Design

This proposed course is a modified version of BPK 143 (B-Sci), redesigned to better address its online delivery model.

Please forward this memo to your Faculty UCC and then on to SCUS and Senate for further approval.

cc: Richard Ward, UGC Chair, Department of Biomedical Physiology and Kinesiology

COURSE SUBJECT NUMBER

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

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

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

COURSE DESCRIPTION — 50 words max. Attach a course outline. Don't include WQB or prerequisites info in this description box.

REPEAT FOR CREDIT



YES



NO

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 the email that serves as proof of assessment. For more information, please visit www.lib.sfu.ca/about/overview/collections/course-assessments.

Library review done?

RATIONALE FOR INTRODUCTION OF THIS COURSE



SCHEDULING AND ENROLLMENT INFORMATION

Term and year course would first be offered (e.g. FALL 2016)

Term in which course will typically be offered Spring Summer Fall
Other (describe)

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

What is the probable enrollment when offered? Estimate:

UNITS
Indicate number of units:

Indicate no. of contact hours: Lecture Seminar Tutorial Lab Other; explain below

OTHER

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

WQB DESIGNATION
(attach approval from Curriculum Office)

PREREQUISITE AND / OR COREQUISITE

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

FEES

Are there any proposed student fees associated with this course other than tuition fees?

 YES NO**COURSE – LEVEL EDUCATIONAL GOALS (OPTIONAL)**

Upon successful completion of this course, students will:

- 1) have an understanding of current topics in Materials Chemistry through lectures, discussions and critical reading of the primary literature;
- 2) be conversant with established and emerging techniques related to Materials Chemistry; and
- 3) display a knowledge of industrially relevant processes related to Materials Chemistry.

Students will also demonstrate their ability to:

- 1) integrate knowledge across many disciplines of Chemistry, applied to Materials Science; and
- 2) critically review current trends and recent studies in Materials Chemistry.

RESOURCES

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

None.

OTHER IMPLICATIONSFinal exam required YES NOCriminal Record Check required YES NO**OVERLAP CHECK**

Checking for overlap is the responsibility of the Associate Dean.

Each new course proposal must have confirmation of an overlap check completed prior to submission to the Faculty Curriculum Committee.

Name of Originator

Byron Gates and Vance Williams