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**MEMORANDUM**

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| ATTENTION | Senate | DATE | July 5, 2019 |
| FROM | Wade Parkhouse, Chair Senate Committee on Undergraduate Studies | PAGES | 1/1 |
| RE: | New Course Proposals (SCUS 19-46) | | |

**For information:**

Acting under delegated authority at its meeting of July 4, 2019 SCUS approved the following curriculum revisions effective Summer 2020.

**a. Faculty of Science (SCUS 19-46)**

1. Department of Biological Sciences

(i) New Course Proposal: BISC 428-3, Cell Anatomy (Spring 2020)

Senators wishing to consult a more detailed report of curriculum revisions may do so on the Senate Docushare repository at https://docushare.sfu.ca/dsweb/View/Collection-12682.

SCUS 19-46

SFU SENATE COMMITTEE ON UNDERGRADUATE STUDIES

**NEW COURSE PROPOSAL**
*1 OF 4 PAGES*

**COURSE SUBJECT** BISC **NUMBER** 428

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

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

**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.

This course provides students with an advanced, detailed understanding of a variety of cell biological topics with particular attention given to the cytoskeleton, intercellular junctions, vesicle trafficking and post-translational modifications of proteins associated with those topics. Students will also be exposed to the history of cell biology throughout the course.

**REPEAT FOR CREDIT** ☐ YES ☑ NO Total completions allowed ☐ 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.

**RATIONALE FOR INTRODUCTION OF THIS COURSE**

Students in the BISC cell biology stream are exposed to a basic understanding of cell biology when they take MBB 231. This course expands on some of the topics learnt in MBB231 that are generally not covered by any higher level SFU courses. Initially we will concentrate on the general history of Cell biology, but will also incorporate historical aspects to the topics taught in the course. The course will then concentrate on the details of cytoskeletal organization, dynamics and mechanism by delving deep into cytoskeletal associated proteins, their domains and their mechanisms of regulation. A similar level of detail is given to the subsequent major topics in the course which include; intercellular junctions, vesicle trafficking and post-translational modifications. Where appropriate human disease manifestations are introduced, as is the use of animal models, most often in the form of transgenics.

The field of cell biology is always changing. Apart from the historical aspects of the subsections of the course that could be found from a variety of sources, including some textbooks, the material in this course most often relies on information from current literature.

This course has been offered twice as a special topics course and was full at each offering: 45 students the first time and 65 the second. In fact we had over 70 students that wanted to take the course in Spring 2019, but unfortunately a larger room to accommodate the additional students in Spring 2019 was not available.

## SCHEDULING AND ENROLLMENT INFORMATION

Effective term and year (e.g. FALL 2016) Spring 2020

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: 65-100

## UNITS

Indicate number of units: 3

Indicate no. of contact hours: 3 Lecture 0 Seminar 0 Tutorial 0 Lab 0 Other; explain below

## OTHER

## FACULTY

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

Any cell biologist could teach this course. Guttman, Rintoul, Silverman, Hutter, Bisgrove.

## WQB DESIGNATION

(attach approval from Curriculum Office)

## PREREQUISITE AND / OR COREQUISITE

BISC 101, BISC 102, MBB 222 and MBB 231 all with a minimum grade of C-.

**EQUIVALENT COURSES** [For more information on equivalency, see Equivalency Statements under Information about Specific Course components.]

**1. SEQUENTIAL COURSE** [is not hard coded in the student information management system (SIMS).]

Students who have taken (*place relevant course(s) in the blank below (ex: STAT 100)*) **first** may not then take this course for further credit.

**2. ONE-WAY EQUIVALENCY** [is not hard coded in SIMS.]

(*Place relevant course(s) in the blank below (ex: STAT 100)*) will be accepted in lieu of this course.

**3. TWO-WAY EQUIVALENCY** [is hard coded and enforced by SIMS.]

Students with credit for (*place relevant course(s) in the blank below (ex: STAT 100)*) may not take this course for further credit.

Does the partner academic unit agree that this is a two-way equivalency? ☐ YES ☐ NO

*Please also have the partner academic unit submit a course change form to update the course equivalency for their course(s).*

**4. SPECIAL TOPICS PRECLUSION STATEMENT** [is not hard coded in SIMS.]

Students who have completed BISC 472 under the title "Advanced Cell Biology" may not take BISC 428 for further credits.

**FEES**

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

**COURSE – LEVEL EDUCATIONAL GOALS (OPTIONAL)**

## RESOURCES

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

N/A

## OTHER IMPLICATIONS

Final exam required ☑ YES ☐ NO

Criminal Record Check required ☐ YES ☑ NO

## OVERLAP CHECK

Checking for overlap is the responsiblity 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**

Julian Guttman