



8888 University Drive,  
Burnaby, BC  
Canada V5A 1S6

TEL: 778.782.6654  
FAX: 778.782.5876

avpacad@sfu.ca  
www.sfu.ca/vpacademic

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**MEMORANDUM**

ATTENTION Senate  
FROM Peter Hall, Chair  
Senate Committee on Undergraduate  
Studies  
RE: New Course Proposals

DATE December 8, 2023

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**For information:**

Acting under delegated authority at its meeting of December 7, 2023 SCUS approved the following curriculum revisions effective Fall 2024.

**a. Faculty of Applied Sciences (SCUS 23-92)**

1. School of Mechatronic Systems Engineering

(i) New Course Proposals:

- MSE 103-3, Statics and Dynamics (*Fall 2024*)

**b. Faculty of Science (SCUS 23-105)**

1. Department of Molecular Biology and Biochemistry

(i) New Course Proposal: MBB 448-3, Cancer Immunology

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>.

COURSE SUBJECT MSE

NUMBER 103

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

Statics and Dynamics

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

Statics&amp;Dynamics

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.

Force vectors in two- and three-dimensions, equilibrium of a particle in two- and three-dimensions; moments and couples; equilibrium of rigid bodies in two- and three-dimensions. Planar kinematics of particles; planar kinetics of particles; work and energy, impulse, and momentum of particles.

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](http://www.lib.sfu.ca/about/overview/collections/course-assessments).

**RATIONALE FOR INTRODUCTION OF THIS COURSE**

This course has been developed as part of MSE's curriculum reform to reduce the number of credits that our students take.

Content has been removed from MSE 221 and added here, additionally some material from PHYS 140 has been included here and PHYS 140 has been removed from the calendar. This allows our mechanical stream to have a lower number of credits.



**SCHEDULING AND ENROLLMENT INFORMATION**

Effective term and year (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?

Ahad Armin, Majid Bahrami, Helen Bailey, Farid Golnaraghi, Woo Soo Kim, Erik Kjeang, Amr Marzouk, Ramtin Rakhsha, Carolyn Sparrey, Krishna Vijayaraghavan & Gary Wang

**WQB DESIGNATION**

(attach approval from Curriculum Office)

None

**PREREQUISITE AND / OR COREQUISITE**

None



**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.]

**FEEES**

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:

**OTHER IMPLICATIONS**

Final exam required  YES  NO

Criminal 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**

Helen Bailey

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 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](http://www.lib.sfu.ca/about/overview/collections/course-assessments).**RATIONALE FOR INTRODUCTION OF THIS COURSE**



SCHEDULING AND ENROLLMENT INFORMATION

Effective term and year (e.g. FALL 2016) Fall 2024

Term in which course will typically be offered [ ] Spring [ ] Summer [x] Fall

Other (describe) [ ]

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

What is the probable enrollment when offered? Estimate: 60

UNITS Indicate number of units: 3

Indicate no. of contact hours: 3 Lecture [ ] Seminar 1 Tutorial [ ] Lab [ ] Other; explain below

OTHER

[ ]

FACULTY

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

Robert Holt
Valentin Jaumouille

WQB DESIGNATION

(attach approval from Curriculum Office)

[ ]

PREREQUISITE AND / OR COREQUISITE

(MBB or HSCI 326) and MBB 322, both 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 with credit for MBB420-Cancer Immunology may not take this course for further credit

**FEEES**

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:

**OTHER IMPLICATIONS**

Final exam required  YES  NO

Criminal 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**

Ingrid Northwood