

OFFICE OF THE ASSOCIATE VICE-PRESIDENT, ACADEMIC AND
ASSOCIATE PROVOST8888 University Drive,
Burnaby, BC
Canada V5A 1S6TEL: 778.782.4636
FAX: 778.782.5876avpcio@sfu.ca
www.sfu.ca/vpacademic

MEMORANDUM

ATTENTION Senate
FROM Bill Krane, Chair
Senate Committee on
Undergraduate Studies
RE: Faculty of Applied Sciences

DATE June 8, 2012

PAGES 1/1

For information:

Acting under delegated authority at its meeting of June 7, 2012, SCUS approved the following curriculum revisions effective Spring 2013:

1. School of Engineering Science (SCUS 12-30)

(i) Prerequisite changes to ENSC 381, 426, 430, 470, 476, 495

B-Hum/Sci

2. ~~BSc~~ Designation for ENSC 106 (SCUS 12-34)

Senators wishing to consult a more detailed report of curriculum revisions may do so by going to Docushare: <https://docushare.sfu.ca/dsweb/View/Collection-12682>

If you are unable to access the information, please call [778-782-3168](tel:778-782-3168) or email shelley_gair@sfu.ca.



FACULTY OF APPLIED SCIENCES

MEMO

Office of the Dean
ASB-9861
Applied Science Bldg

Tel: 778-782-4724
Fax: 778-782-5802

www.fas.sfu.ca

ATTENTION	Bill Krane, Chair SCUS
FROM	Rob Cameron, Associate Dean, Faculty of Applied Sciences
RE	Faculty of Applied Sciences Undergraduate Curriculum Changes
DATE	May 28, 2012

The following changes have been approved by the FAS Undergraduate Curriculum Committee and are appended here for approval by SCUS and recommendation to Senate.

Please note, that the Chinese DDP courses listed below have been jointly approved by the Undergraduate Curriculum Committees for both FAS and FASS. The courses are listed below for your reference, however the course proposals will be provided by the Faculty of Arts and Social Sciences and are not included in this package.

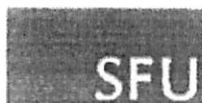
1. Chinese DDP courses:

Courses for non-heritage students: CHIN 180, 181, 280, 281, 182

Courses for heritage students: CHIN 190, 191, 290, 291

2. ENSC Pre-requisite Changes:

ENSC 381, ENSC 426, ENSC 430, ENSC 470, ENSC 476, ENSC 495



SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

COURSE CHANGE/DELETION

Existing Course, Changes Recommended

Please check appropriate revision(s):

☐ Course number ☐ Credit ☐ Title ☐ Description ☒ Prerequisite ☐ Course deletion

Indicate number of hours for: Lecture 3 Seminar _____ Tutorial 1 Lab 1

FROM

to

Course Number ENSC 381 Course Number _____

Credits (Units) 3 Credits (Units) _____

TITLE

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

System Modeling and Simulation

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

Sys Mod & SIM

DESCRIPTION

Introduction to systems modeling and analysis.
Application to engineering systems including:
mechanical, electrical, thermal, and fluid systems.
Allows the student to acquire, in a time-efficient and
uncomplicated manner, knowledge in the formation
and construction of dynamic models. The simulation
models that the student will design in this course
accommodate these analyses, with the construction of
realistic hypotheses and elaborate behavior models.

PREREQUISITE (current)

Prerequisite: ENSC 226, 281, 282, 283,
MATH 251,. Co-requisite: PHYS 344.

DESCRIPTION

No change.

PREREQUISITE (new)

Prerequisite: ENSC 226, 281, 282.

Rationale

PHYS 344 was replaced with ENSC 388 in MSE curriculum.
MATH 251 should be removed as a prerequisite as it is not directly required by ENSC 381
The course Fluid Mechanics is also not required for ENSC 381.

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. No.

Effective term and year ~~Fall 2013~~ Spring 2013



SELEATE COMMITTEE ON
UNDERGRADUATE STUDIES

COURSE CHANGE/DELETION

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 Course Subject/Number **ENSC 426-4** TO Course Subject/Number _____

Credits _____ Credits _____

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:

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: PHYS 221 or 321.

PREREQUISITE

TO: Completion of 80 units including PHYS 221 or 321.

LEARNING OUTCOMES

RATIONALE

This course is designed for students at a 4th year level in engineering, but the existing prerequisite allows 2nd year students to take the course.

Effective term and year

JANUARY 2012



SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

COURSE CHANGE/DELETION

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 Course Subject/Number **ENSC 430-3** TO Course Subject/Number _____

Credits _____ Credits _____

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: _____

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: ENSC 226. Students with credit for ENSC 325 cannot complete this course for further credit

PREREQUISITE

TO: Completion of 80 units including ENSC 226. Students with credit for ENSC 325 cannot complete this course for further credit

LEARNING OUTCOMES

RATIONALE

This course is designed for students at a 4th year level in engineering, but the existing prerequisite allows 2nd year students to take the course.

Effective term and year

JANUARY 2012



SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

COURSE CHANGE/DELETION

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 Course Subject/Number ENSC 470-4 TO Course Subject/Number _____

Credits _____ Credits _____

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:

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: PHYS 121 or 126 or 141, and MATH 310.

PREREQUISITE

TO: Completion of 80 units including PHYS 121 or 126 or 141, and MATH 310.

LEARNING OUTCOMES

RATIONALE

This course is designed for students at a 4th year level in engineering, but the existing prerequisite allows 2nd year students to take the course.

Effective term and year

JANUARY 2012



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 **ENSC 476-4** Course Subject/Number _____

Credits _____ Credits _____

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:** _____

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: PHYS 121 or 102 or 141. Recommended:
ENSC 376 or 470.

PREREQUISITE

TO: Completion of 80 units including PHYS 121
or 102 or 141. Recommended: ENSC 376 or
470

LEARNING OUTCOMES

RATIONALE

This course is designed for students at a 4th year level in engineering, but the existing prerequisite allows 2nd year students to take the course.

Effective term and year

JANUARY 2012



SENATE COMMITTEE ON
UNDERGRADUATE STUDIES

COURSE CHANGE/DELETION

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 Course Subject/Number **ENSC 495-4** TO Course Subject/Number _____

Credits _____ Credits _____

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:

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: ENSC 225 or 226, and permission of the instructor.

PREREQUISITE

TO: Completion of 80 units including ENSC 225 or 226, and permission of the instructor.

LEARNING OUTCOMES

RATIONALE

This course is designed for students at a 4th year level in engineering, but the existing prerequisite allows 2nd year students to take the course.

Effective term and year

JANUARY 2012



UNIVERSITY CURRICULUM & INSTITUTIONAL LIAISON
OFFICE OF THE VICE PRESIDENT ACADEMIC AND PROVOST

MEMO

ADDRESS
8888 UNIVERSITY DRIVE
BURNABY BC V5A 1S6
CANADA

ATTENTION Jo Hinchliffe, Associate
Registrar

TEL

FROM SUSAN RHODES, Assistant Director, University Curriculum and
Institutional Liaison

RE B-Hum/Sci designation for ENSC 106

DATE June 6, 2012

TIME 3:45 PM

Please be advised that the University Curriculum Office has approved B-Hum/Sci designations for:

ENSC 106 Applied Science, Technology and Society

to be effective January 2013.

This course is equivalent to ENSC 100W (B-Hum/Sci) but offered at Surrey campus. Breadth designations were overlooked when W was approved for the companion co-requisite ENSC 105W, but are required for consistency. As this course is only offered annually, in the Spring term, expediting the application of the B designations is requested.

Cc: John Jones, Engineering Science
Rob Cameron, Faculty of Applied Sciences