

SFU

OFFICE OF THE ASSOCIATE VICE-PRESIDENT, ACADEMIC

8888 University Drive, TEL: 778.782.6654 avpacad@sfu.ca
 Burnaby, BC FAX: 778.782.5876 www.sfu.ca/vpacademic
 Canada V5A 1S6

MEMORANDUM

ATTENTION	Senate	DATE	February 8, 2019
FROM	Wade Parkhouse, Chair	PAGES	1/2
	Senate Committee on		
	Undergraduate Studies		
RE:	Course Changes (SCUS 19-08)		

For information:

Acting under delegated authority at its meeting of February 7, 2019 SCUS approved the following curriculum revisions effective Fall 2019.

a. Faculty of Applied Sciences1. School of Computing Science

(i) Equivalent statement change for CMPT 105W

2. School of Engineering Science

(i) Equivalent statement change for ENSC 105W, 204, 220, 225, 280, 380, 383, 385, 405W, 406, 410 and 440

3. School of Mechatronic Systems Engineering

(i) Equivalent statement change for MSE 100, 101W, 210, 211, 220, 221, 223, 250, 251, 280, 353, 381, 402, 410 and 411

(ii) Equivalency change for MSE 300

b. Beedie School of Business

- (i) Prerequisite change for BUS 439
- (ii) Deletion of BUS 342

c. Faculty of Communication, Art and Technology

1. School for the Contemporary Arts

- (i) Description change for CA 306 and 406
- (ii) Course number and equivalent statement change for CA 167 and 168
- (iii) Prerequisite change for CA 235, 260, 314, 335, 360, 366, 412W and 414

d. Faculty of Environment

1. School of Environmental Science

- (i) Acronym, title and description change for ENV 391 and 491
- (ii) Acronym, number and title change to ENV 399 and 499

e. Faculty of Science

1. Department of Biomedical Physiology and Kinesiology

- (i) Description change for BPK 105, 205, 208
- (ii) Description and Prerequisite change for BPK 417

2. Department of Earth Sciences

- (i) Prerequisite change for EASC 411

3. Department of Statistics and Actuarial Science

- (i) Prerequisite change for STAT 285

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	CMPT	NUMBER	105W	TITLE	Process, Form, and Convention in Professional Genres
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for ENSC 102, ENSC 105W, or MSE 101W or SEE 101W may not take CMPT 105W for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT	ENSC	NUMBER	105W	TITLE	Process, Form, and Convention in Professional Genres
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for CMPT 105W, ENSC 102, or MSE 101W or SEE 101W may not take ENSC 105W for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT	ENSC	NUMBER	204	TITLE	Graphical Communication for Engineering
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for ENSC 103, that have taken ENSC 104, or MSE 100 or SEE 100 first cannot take ENSC 204 for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT ENSC NUMBER 220 TITLE Electric Circuits I

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input checked="" type="checkbox"/>

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for MSE 250 or SEE 230 cannot take this course for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT ENSC NUMBER 225 TITLE Microelectronics I

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):Course Units Prerequisite
numberTitle Description Equivalent
Statement**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students taking or with credit for ENSC 226, or MSE 251 or SEE 231 may not take ENSC 225 for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT	ENSC	NUMBER	280	TITLE	Engineering Measurement and Data Analysis
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for STAT 270, MSE 210, SEE 241 or PHYS 231 cannot take this course for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT ENSC NUMBER 380 TITLE Linear Systems

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):Course Units Prerequisite
numberTitle Description Equivalent
Statement**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using ~~strike-through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for MSE 280 or SEE 341 may not take ENSC 380 for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT ENSC NUMBER 383 TITLE Feedback Control Systems

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):Course Units Prerequisite
numberTitle Description Equivalent
Statement**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for MSE 381 or SEE 342 may not take ENSC 383 for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT	ENSC	NUMBER	385	TITLE	Statics and Strength of Materials
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for ENSC 281, or MSE 221, or SEE 221 cannot take this course for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT	ENSC	NUMBER	405W	TITLE	Capstone A: Project Design, Management, and Documentation
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Engineering Science students cannot take MSE 410, or MSE 411, SEE 410W or SEE 411 for credit.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT	ENSC	NUMBER	406	TITLE	Engineering Ethics, Law, and Professional Practice
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for MSE 402 or SEE 402 may not take ENSC 406 for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT	ENSC	NUMBER	410	TITLE	The Business of Engineering
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input checked="" type="checkbox"/>

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for ENSC 201, ENSC 411, or MSE 300 or SEE 300 cannot complete this course for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT	ENSC	NUMBER	440	TITLE	Capstone B: Engineering Design Project
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for ENSC 440W, ENSC 442, or MSE 411 or SEE 411 may not take this course for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT	MSE	NUMBER	100	TITLE	Engineering Graphics and Design
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for ENSC 104 or SEE 100 may not take MSE 100 for further credit

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT	MSE	NUMBER	101W	TITLE	Process, Form, and Convention in Professional Genres
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for CMPT 105W, SEE 101W, ENSC 102W or ENSC 105W may not take MSE 101W for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT	MSE	NUMBER	210	TITLE	Engineering Measurement and Data Analysis
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for SEE 241, ENSC 280 or PHYS 231 may not take MSE 210 for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT	MSE	NUMBER	211	TITLE	Computational Methods for Engineers
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for MACM 316 or SEE 242 may not take this course for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT MSE NUMBER 220 TITLE Engineering Materials

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):Course Units Prerequisite
numberTitle Description Equivalent
Statement**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for SEE 222, ENSC 231 or ENSC 330 may not take MSE 220 for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT	MSE	NUMBER	221	TITLE	Statics and Strength of Materials
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for SEE 221, ENSC 281 or ENSC 385 may not take MSE 221 for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT	MSE	NUMBER	223	TITLE	Introduction to Fluid Mechanics
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for ENSC 283 or SEE 225 may not take MSE 223 for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT MSE NUMBER 250 TITLE Electric Circuits I

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):Course Units Prerequisite
numberTitle Description Equivalent
Statement**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for SEE 230 ENSC 125 or ENSC 220 may not take MSE 250 for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT MSE NUMBER 251 TITLE Electronic Circuits

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course Units Prerequisite
number

Title Description Equivalent
Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for SEE 231, ENSC 225 or ENSC 226 may not take MSE 251 for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT

MSE

NUMBER

280

TITLE

Linear Systems

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):Course
number

Units

Prerequisite

Title

Description

Equivalent

Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for ENSC 380 or SEE 341 may not take MSE 280 for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT	MSE	NUMBER	353	TITLE	Power Electronics and Electric Machinery
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for SEE 331 may not take MSE 353 for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT **MSE** NUMBER **381** TITLE **Feedback Control Systems****TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input checked="" type="checkbox"/>

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for ENSC 383 or SEE 342 may not take MSE 381 for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)**Fall 2019****RATIONALE** (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT	MSE	NUMBER	402	TITLE	Engineering Ethics, Law, and Professional Practice
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for ENSC 406 or SEE 402 may not take MSE 402 for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT	MSE	NUMBER	410	TITLE	Capstone Design Technical Project I
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike-through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for ENSC 405W or SEE 410W may not take this course for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT	MSE	NUMBER	411	TITLE	Capstone Design Technical Project II
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for ENSC 442 or SEE 411 may not take MSE 411 for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT	MSE	NUMBER	300	TITLE	The Business of Engineering I
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course Units Prerequisite
number

Title Description Equivalent
Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Students with credit for SEE 300, ENSC 201 or, ENSC 311 or ENSC 410 may not take MSE 300 for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This completes the two-way equivalency that was established during approval of the Sustainable Energy Engineering (SEE) undergraduate program and corresponding courses.

COURSE SUBJECT	BUS	NUMBER	439	TITLE	Analytics Project
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
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Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>
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WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Examines complex, real-world decision making issues using an evidence-based approach that employs decision making strategies involving statistics, data management, analytics, and decision theory. Through a major decision making project within the community, students will experience first-hand the process of consultation, data acquisition, analysis, and recommendation. Prerequisite: BUS 345 or BUS 440, BUS 360W, BUS 437 or BUS 441, BUS 445, BUS 462, and BUS 464; 90 units; OR Data Science majors with BUS 360W, BUS 445, CMPT 354, and 90 units.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

Many of the Business course prerequisites are not required for Data Science students. This update to the prerequisites will ensure that Data Science students come into BUS 439 with important prerequisite knowledge, based on the courses they have taken in the Data Science program.

COURSE SUBJECT

BUS

NUMBER

342

TITLE

Foundations of Entrepreneurship

RATIONALE (must be included)

This course is no longer required for any Business programs.

This course was offered for a final time in Fall 2014. After that, a course substitution (BUS 238) was offered to any student who still required the course for their program. This option was offered for several terms and notification was sent to all Business students that Fall 2014 was the final offering of BUS 342.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (enter in textbox)

Fall 2019

PLEASE DO THE FOLLOWING:

1. Attach a program impact list along with your course deletion form. Contact the Senate and Academic Services Office (sfucal@sfu.ca) for a program impact list.
2. Once you have the program impact list, please review how deleting this course affects each program's requirements.
3. If more substantial changes are required to programs as a result of this deletion, please also submit a program modification form.
4. If no further changes other than deletion is required in program requirements, please list those programs in the box below:

There is no program impact list as this course is no longer required for any programs.

5. Lastly, please conduct a course impact analysis, which reviews the effect of a course number change and/or course deletion on course prerequisites. For instructions on how to do a course impact analysis, please visit [our page](#) and click on "deleting a course" and review Step 2. Course Impact Analysis.

COURSE SUBJECT	CA	NUMBER	306	TITLE	Internship in Contemporary Arts I
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input checked="" type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

This course is intended for advanced students to gain hands-on learning experience with an arts organization. This can include artist run centres, film festivals, media arts or performance venues, galleries, museums, and arts publications. The student's time in the internship should total ~~approximately~~ 80 hours, to be carried out over the course of a semester. Students are also required to reflect on their learning through participation in a Canvas course. Under the supervision of a faculty member, projects Internships can involve research, writing, organizing events, curating exhibitions and programs, studio apprenticeships, public relations, media production, archiving, and related activities. A written report is produced by the student at the conclusion of the internship. This course cannot be repeated for credit. Prerequisite: 45 units.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

1) To accurately reflect the current nature of the course;
2) To accurately reflect the current options for repeating the course for credit.

COURSE SUBJECT

CA

NUMBER

406

TITLE

Internship in Contemporary
Arts II**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):Course
number

Units

Prerequisite

Title

Description

Equivalent

Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

This course is intended for advanced students to gain hands-on learning experience with an arts organization. This can include artist run centres, film festivals, media arts or performance venues, galleries, museums, and arts publications. The student's time in the internship should total ~~approximately 140~~ ~~120~~ hours, to be carried out over the course of a semester. Students are also required to reflect on their learning through participation in a Canvas course. Projects Internships can involve research, writing, organizing events, curating exhibitions and programs, studio apprenticeships, public relations, media production, archiving, and related activities. This course can be repeated once for credit. Prerequisite: 60 units.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

- 1) To accurately reflect the nature of the course and correct a typographical error regarding contact hours;
- 2) As a School for the fine and performing arts, we recognized that our students are aspiring professionals for whom training in the field is essential for future success. In some cases, an internship might involve participation in a project (the mounting of an art exhibition or a dance performance, for example) that spans two semesters. The option to repeat this course once for credit will permit these students to pursue these enrichment opportunities.

COURSE SUBJECT CA NUMBER 167 TITLE Visual Art and Culture I

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number	<input checked="" type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input checked="" type="checkbox"/>

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

CA 167 117 - Visual Art and Culture I (3)

An introduction to the visual arts of the nineteenth century. Formal and thematic approaches to the arts will be introduced, with attention to the social, institutional, national, and international contexts of art. Students with credit for FPA/CA 167 may not take this course for further credit. Breadth-Humanities.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

The current course number (167) designates this as a Visual Art course, and predates the Art, Performance and Cinema Studies (APC) program. As it is core to the APCS curriculum and taught by APCS faculty members, this modification to an APCS-identified course number will clarify the course content for students.

COURSE SUBJECT CA NUMBER 168 TITLE Visual Art and Culture II

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number	<input checked="" type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input checked="" type="checkbox"/>

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

CA 168 118 - Visual Art and Culture II (3)

A study of the visual arts from the twentieth century to the present, with attention to the artists, artworks, movements, and discourses that re-defined the functions and meanings of art. The debates of modernism, postmodernity, postcolonialism, feminism, and the avant-garde will be systematically explored. Students with credit for FPA/CA 168 may not take this course for further credit. Breadth-Humanities.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

The current course code (168) designates this as a Visual Art course, and predates the Art, Performance and Cinema Studies (APC) program. As it is core to the APCS curriculum and taught by APCS faculty members, this modification to an APCS-identified course code will clarify the course content for students.

COURSE SUBJECT CA NUMBER 235 TITLE Experimental Film and Video

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

A survey of the key works and ideas that have informed contemporary moving image art practice nationally and internationally. Beginning with antecedents in painting and photography, the course will move forward from the early European avant-garde to the lyrical and structural works of the seventies, the issue-based work of the eighties, and finally the gallery-based practices of the present day. Intended for all students with an interest in the moving image as an art form. Prerequisite: One of CA (or FPA) 135, 136, 137, 117 (or 167) or 118 (or 168) or 30 units. Students with credit for FPA 235 may not take this course for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

The SCA has requested modification of CA 167 to CA 117 and CA 168 to CA 118. The present request modifies the course prerequisites to reflect those changes.

COURSE SUBJECT CA NUMBER 260 TITLE Studio in Visual Art I

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
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Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>
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WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

This course permits students to work extensively in a mature critical studio environment on a combination of freely chosen and assigned projects in various contemporary media. Reading will be required. Prerequisite: CA (or FPA) 161 and 118 (or 168). A course materials fee is required. Students with credit for FPA 260 may not take this course for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

The SCA has requested modification of CA 168 to CA 118. The present request modifies the course prerequisites to reflect this change.

COURSE SUBJECT	CA	NUMBER	314	TITLE	Readings in the History of Art and Culture
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Investigates a selected historical topic in art and culture. May repeat for credit.
Prerequisite: CA (or FPA) 117 (or 167), CA (or FPA) 186, CA (or FPA) 210W (or 210).

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

The SCA has requested modification of CA 167 to CA 117 and CA 168 to CA 118. The present request modifies the course prerequisites to reflect those changes.

This change also reflects the addition of a "W" designation to CA 210.

COURSE SUBJECT CA NUMBER 335 TITLE Introduction to Film Theory

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

This course is concerned with the systematic understanding of the general phenomenon called Cinema rather than with the properties or techniques of individual films. Various theoretical positions will be assessed and compared in terms of cinematic practice and its ideological functions. Prerequisite: Six units from among CA (or FPA) 136, 137, 211, 236, 237. Recommended: CA (or FPA) 210W (or 210). May be of particular interest to students in other departments. Students who have credit for CA (or FPA) 234 may not take this course for further credit. Students with credit for FPA 335 may not take this course for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This modification reflects the addition of a "W" designation to recommended prerequisite CA 210.

COURSE SUBJECT CA NUMBER 360 TITLE Studio in Visual Art III

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

An open critical studio course. Students are required to have a program of work prepared at the beginning of the term. This program will constitute the basis of the student's work in the course, and will be the subject of continuing critical discussion. This discussion will be integrated with theoretical studies in the parallel seminar course, CA 366. Those students who have satisfactorily completed the lower division requirements for the major may apply for entry into the third year studio/seminar stream. Admission is by portfolio assessment and course achievement review in the spring term before third year. A course materials fee is required. Prerequisite: CA (or FPA) 117 (or 167), 118 (or 168), 210W (or 210), 261 and status as an approved Visual Art Major. Corequisite: CA 366. Students with credit for FPA 360 may not take this course for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

The SCA has requested modification of CA 167 to CA 117 and CA 168 to CA 118. The present request modifies the course prerequisites to reflect those changes.

This change also reflects the addition of a "W" designation to CA 210.

COURSE SUBJECT CA NUMBER 366 TITLE Seminar in Visual Art I

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
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Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>
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WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

A seminar course to be taken by all students in CA 360. It deals with visual art topics of an historical, critical and theoretical nature that concern practicing artists in the contemporary context. Students will be required to present research papers. Each research subject will be studied in connection with the student's own artistic work. Prerequisite: CA (or FPA) 117 (or 167), 118 (or 168), 210W (or 210), 261 and status as an approved Visual Art Major. Corequisite: CA 360. Students with credit for FPA 366 may not take this course for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

The SCA has requested modification of CA 167 to CA 117 and CA 168 to CA 118. The present request modifies the course prerequisites to reflect those changes.

This change also reflects the addition of a "W" designation to CA 210.

COURSE SUBJECT

CA

NUMBER

412W

TITLE

Advanced Seminar in Art and
Culture Studies**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):Course
number

Units

Prerequisite

Title

Description

Equivalent
Statement**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Provides an in-depth investigation of a selected theoretical, historical or thematic topic in art and culture studies. This course requires independent research leading to a substantial paper, as well as directed reading preparation for seminars. Topics will vary from term to term. The course may be repeated when different topics are offered. May be of particular interest to students in other departments. Prerequisite: Eight upper division units; and one of CA (or FPA) 210W (or 210), 335, or 337, or 357W. Writing.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

This change reflects the addition of a "W" designation to prerequisite CA 210.

COURSE SUBJECT

CA

NUMBER

414

TITLE

Advanced Topic in the History
of Art and Culture**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):Course
number

Units

Prerequisite

Title

Description

Equivalent

Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

An in-depth investigation of a selected topic in the history of art and culture. This course can be repeated for credit. Prerequisite: CA (or FPA) 117 (or 167), CA (or FPA) 186, CA (or FPA) 210W (or 210) and 45 units.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

- a) The SCA has requested modification of CA 167 to CA 117 and CA 168 to CA 118. The present request modifies the course prerequisites to reflect those changes.
- b) An error in the current course description fails to fully identify CA/FPA 186.
- c) This change also reflects the addition of a "W" designation to prerequisite CA 210.



COURSE MODIFICATION FORM

Page 1 of 2

COURSE SUBJECT

EVSC ENV

NUMBER

391

TITLE

Directed Study in Environmental
Science ~~Environment~~

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course
number

Units

Prerequisite

Title

Description

Equivalent

Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Independent study on environmental topics selected in consultation with the supervising instructor. A directed study proposal must be completed and approved by the instructor, and the EVSC Director ~~home departmental advisor and the Faculty of Environment advisor~~ prior to registration. Students may take this course only once. Variable units: 1,2,3,4,5,6,7,8. Prerequisite: 60 units, 3.0 cumulative grade point average.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

These directed studies (ENV 391 & 491) and special topics (ENV 399 & 499) courses are only used by EVSC students. With the formation of the School of Environmental Science, it makes sense to rebrand them as EVSC courses.

COURSE SUBJECT

ENV EVSC

NUMBER

399 395

TITLE

Special Topics in Environment
Environmental Science**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):Course
number

Units

Prerequisite

Title

Description

Equivalent

Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

A specific topic within the field of Environment not examined in depth in regular courses. This course will provide students with understanding, perspective and experience in emerging and important areas of environment. Variable credit hours: 3 - 8 credits.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

These directed studies (ENV 391 & 491) and special topics (ENV 399 & 499) courses are only used by EVSC students. With the formation of the School of Environmental Science, it makes sense to rebrand them as EVSC courses.

EVSC 399 has been used previously, so we are changing ENV 399 to EVSC 395.

COURSE SUBJECT	EVSC ENV	NUMBER	491	TITLE	Directed Study in Environmental Science Environment
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Independent study on environmental topics selected in consultation with the supervising instructor. A directed study proposal must be completed and approved by the instructor, and the Director ~~home~~ ~~departmental advisor~~ and the Faculty of Environment ~~adviser~~ prior to registration. Students may take this course only once. Variable units: 1,2,3,4,5,6,7,8. Prerequisite: 60 units, 3.0 cumulative grade point average.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

These directed studies (ENV 391 & 491) and special topics (ENV 399 & 499) courses are only used by EVSC students. With the formation of the School of Environmental Science, it makes sense to rebrand them as EVSC courses.

COURSE SUBJECT

ENV EVSC

NUMBER

499 495

TITLE

Special Topics in Environment
Environmental Science**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):Course
number

Units

Prerequisite

Title

Description

Equivalent

Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

A specific topic within the field of Environment not examined in depth in regular courses. This course will provide students with understanding, perspective and experience in emerging and important areas of environment. Variable credit hours: 4 - 8 credits.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

These directed studies (ENV 391 & 491) and special topics (ENV 399 & 499) courses are only used by EVSC students. With the formation of the School of Environmental Science, it makes sense to rebrand them as EVSC courses.

EVSC 499 has been used previously, so we are changing ENV 499 to EVSC 495.

COURSE SUBJECT	BPK	NUMBER	105	TITLE	Fundamentals of Human Structure and Function
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input checked="" type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Basic anatomy and physiology of the skeletal, muscular, nervous, endocrine, cardio-respiratory, urinary, digestive, immune, and reproductive systems. (distance education). ~~Kinesiology~~ BPK Major and Honours students may not receive credit for BPK 105. BPK 205 or 208 may be used as a substitute for BPK 105 by students in the Kinesiology Minor ~~and Certificate~~ programs. No student may take both BPK 105 and BPK 208 for credit.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

These changes bring the calendar up to date with previously approved changes and correct small errors.

COURSE SUBJECT	BPK	NUMBER	205	TITLE	Introduction to Human Physiology
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

An introductory survey of human physiology with an emphasis on mechanisms of regulation and integration. Anatomy of structures will be detailed only when it is critical to a functional understanding. Although this is intended as a survey course, some topics will be covered in reasonable detail in order to give insight into mechanisms of function. BPK 208 may not be used as a substitute for BPK 205 by students in ~~the Kinesiology BPK~~ Major and Honours programs. ~~Kinesiology BPK~~ Major and Honours students who have taken BPK 105 must also take BPK 205. For students taking both of these courses, credit will only be given for BPK 205.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

These changes bring the calendar up to date with previously approved changes and correct small errors.

COURSE SUBJECT	BPK	NUMBER	208	TITLE	Introduction to Physiological Systems
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike-through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

An introduction to anatomy and physiological function of the major human systems, from a biomedical engineering perspective. Normally only available to students in the Biomedical Engineering Program. BPK 208 may be used as a substitute for BPK 105 by students in the Kinesiology Minor and Certificate programs. Kinesiology BPK Major and Honours students may not receive credit for BPK 208. No student may take both BPK 105 and BPK 208 for credit, or both BPK 205 and BPK 208 for credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

These changes bring the calendar up to date with previously approved changes and correct small errors.

COURSE SUBJECT	BPK	NUMBER	417	TITLE	Obesity, Adipocyte Function and Weight Management
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input checked="" type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

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Discusses mechanisms of health and disease with respect to a range of molecular mechanisms of physiology and organ system function, including how adipokines have an effect on metabolic alterations in immunology and hormone production in diabetes, stress and cardiovascular disease. Health behavior change in obesity and impact of dietary habits upon hyperlipidemia and apolipoprotein metabolism are addressed in addition to nutritional challenges in weight management and obesity.

A complex systems lens is used to study the causes, complications and comorbidities of obesity, including diabetes and cardiovascular disease. The etiology of obesity is explored from genetics to environment, including the neuroendocrine biology of appetite regulation. Lifestyle, medical and pharmacological obesity management options and challenges are examined.

Prerequisites: BPK 110; 306, 314 (or 311), 340. Students with credit for BPK 417 W may not repeat this course for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

Description change: Proposed description better reflects the pedagogical approach by the instructor to the course learning objectives and the course content. The original description was written prior to the course being offered.

Prerequisite change: BPK 311 - Applied Human Nutrition does not provide additional conceptual advantage that is necessary for the course. BPK 314 - Nutrition and Chronic Disease has never been offered and there is no current plan to offer it. Nutrition-focused topics covered in BPK 417 can be addressed with the foundational knowledge of BPK 110 – Human Nutrition: Current Issues. As BPK 311 is an elective, many students have not taken it, creating an unnecessary barrier to enrollment in BPK 417.

COURSE SUBJECT EASC NUMBER 411 TITLE Terrain Analysis

TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Prerequisite: EASC 206 and 209W or GEOG 213. Recommended: GEOG 252 and 313. All with a grade of C- or better.

EFFECTIVE TERM AND YEAR FOR CHANGES
Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

All the relevant prerequisite information is taught in EASC 206 and 209W. Following changes to 209W, important concepts relating to terrain mapping and field documentation are covered in detail. This content is not covered in GEOG 213 and as such is not equivalent to EASC 209.

COURSE SUBJECT	STAT	NUMBER	285	TITLE	Intermediate Probability and Statistics
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number Units Prerequisite

Title Description Equivalent Statement

WORDING/DESCRIPTION EDITS. Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

This course is a continuation of STAT 270. Review of probability models. Procedures for statistical inference using survey results observational and experimental data. Statistical model building. Elementary design of experiments. Regression methods. Introduction to categorical data analysis. Prerequisite: STAT 270 and one of MATH 152, MATH 155, or MATH 158. Quantitative.

EFFECTIVE TERM AND YEAR FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2019

RATIONALE (must be included)

Students require Calculus II (MATH 152, 155, or 158) as preparation for STAT 285. Because Calculus II is a corequisite to STAT 270 (which is a prerequisite to STAT 285), almost all STAT 285 students have this preparation. However, occasionally, a student takes STAT 270 and Calculus II concurrently, passes STAT 270, but fails Calculus II. The proposed change to the STAT 285 prerequisites will prevent such students from enrolling in this course before completing Calculus II, i.e., closes a loophole.