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MEMORANDUM

ATTENTION Senate
FROM Paul Kingsbury, Vice-Chair
RE: Senate Committee on Undergraduate Studies
Course Changes (SCUS 25-28)

DATE February 7, 2025
PAGES 1/2

100

For information:

Acting under delegated authority at its meeting of February 6, 2025 SCUS approved the following curriculum revisions effective Fall 2025.

a. Beedie School of Business (SCUS 25-10-c)

- (i) Deletion of BUS 413 (*effective Spring 2026*)
- (iii) Description and prerequisite change for BUS 315

b. Faculty of Communication, Art and Technology

1. School of Contemporary Arts

- (i) Description changes for CA 117, 118, 135, 136, and 137
- (ii) Description and prerequisite changes for CA 210W, 316, 414, and 416
- (iii) Description, prerequisite and equivalent statement changes for CA 216, and 318
- (iv) Prerequisite and equivalent statement changes for CA 217
- (v) Deletion of CA 312
- (vi) Prerequisite changes for CA 314, and 319W
- (vii) Description and equivalent statement changes for CA 315
- (xi) Title and description change for CA 150

2. School of Interactive Arts and Technology

- (i) Description and prerequisite change for IAT 351
- (ii) Title and description change for IAT 320 and 452
- (iii) Title, description and prerequisite change for IAT 336

c. Faculty of Environment

1. Department of Archaeology

(i) Units change for ARCH 383

d. Faculty of Science

1. Department of Mathematics

(i) Prerequisite and equivalent statement changes for MATH 100
(ii) Prerequisite changes for MATH 130, 150, 151, 154 and 157

2. Department of Molecular Biology and Biochemistry

(i) Prerequisite change for MBB 309W

3. Department of Physics

(i) Prerequisite changes for PHYS 385 and 395

4. Department of Statistics and Actuarial Science

(i) Prerequisite change for ACMA 101
(ii) Description and prerequisite changes for ACMA 201
(iii) Prerequisite change for ACMA 321
(iv) Course number, title, description, prerequisite and equivalent statement changes for:

- ACMA 340
- ACMA 301
- ACMA 401

(v) Equivalent statement change for ACMA 421
(vi) Deletion of ACMA 455, 465 and 475

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

BUS

NUMBER

413

TITLE

Corporate Finance (3)

RATIONALE (must be included)

Students will gain basic corporate finance knowledge in the new BUS 313 (Fall 2025), which serves as a foundation for the new BUS 412 (Fall 2025) advanced corporate finance. In BUS 412, students explore more specific topics such as mergers and acquisitions and corporate governance, allowing them to delve deeper into corporate finance.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2026

PLEASE DO THE FOLLOWING:

1. Attach a program impact list along with your course deletion form. Contact the Senate and Academic Services Office (sfiscal@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:

Program impact list for BUS 413:

1. Business Honours
2. Business Major

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	BUS	NUMBER	315	TITLE	Investments (3)
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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).

Investments from an individual and institutional point of view. Topics include: bond valuation and the term structure of interest rates, stock valuation, portfolio theory, asset pricing models, efficient markets and introduction to derivative securities portfolio performance evaluation. Prerequisite: BUS 312, ~~BUS 336~~ and (BUS 207 or ECON 201), all both with a minimum grade of C- and 45 units; OR actuarial science students with STAT 285 and ~~BUS 312, (BUS 312 or ACMA 201)~~, both with a minimum grade of C- and 45 units. Quantitative.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

Derivative securities are a type of investment instrument, it is essential to include them in BUS 315 to provide students with a comprehensive understanding of investment tools. Additionally, understanding the basics of derivative securities helps students grasp risk management in advanced courses such as international finance and financial institutions.

BUS 232 is already a prerequisite for BUS 312, and BUS 312 is a prerequisite for BUS 315, we do not need to require any additional statistics course as a prerequisite for BUS 315.

COURSE SUBJECT	CA	NUMBER	117	TITLE	Modern Art History (3)
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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).

An introduction to the visual arts from the mid-19th century to the mid-20th century ~~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 CA 167 may not take this course for further credit. May be of particular interest to students in other departments. Breadth-Humanities.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

The change in content from a focus solely on the 19th Century to one that begins in the mid-19th Century and extend to the mid-20th-Century allows the course better reflects the content of this course devoted to modern art as well as to better reflect the focus of the overall APCS program on art in the Modern era (roughly from 1850 onwards). A corresponding change to CA118 will alter that course to focus on the period from the mid-20th Century to the present, allowing the course to focus more on recent developments in art history.

COURSE SUBJECT CA NUMBER 118 TITLE Contemporary Art History

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 study of the visual arts from ~~the twentieth century~~ 1945 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 CA 168 may not take this course for further credit. May be of particular interest to students in other departments. Breadth-Humanities.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

This change is made in conjunction with the change to CA 117 (Modern Art History). We wish to more narrowly focus this course on the period from 1945 to the present to permit more in-depth coverage of the development of arts since 1945. The sequence of CA 117 and CA 118 more accurately reflects our program focus on contemporary arts and its immediate precursors.

COURSE SUBJECT CA NUMBER 135 TITLE Introduction to Cinema (3)

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).

An introductory course designed to facilitate a fundamental understanding of film. Introduces students to the techniques, styles and forms of cinema in order to develop the skills with which to analyze films of all genres. Through lectures and screenings it will provide an overview of the social, aesthetic and technical development of motion pictures, introducing tools for the formal analysis of the elements of cinema: cinematography and lighting, art direction, performance, editing, sound and the screenplay. The formal and historical elements of documentary, avant-garde and dramatic films will be addressed. The course will involve the screening and discussion of several complete feature films and shorts, as well as excerpts from others. Breadth-Humanities.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

Changed description to correspond to stylistic norms of calendar, to simply the description/remove redundancies, and to eliminate some jargon.

COURSE SUBJECT	CA	NUMBER	136	TITLE	The History and Aesthetics of Cinema I (3)
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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 will e~~Examines the early development of cinema from 1890 until about 1945, with particular emphasis on the fundamental principles of film as an art form. May be of particular interest to students in other departments. Breadth-Humanities.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

FALL 2025

RATIONALE (must be included)

Change simply eliminates references to the outdated FPA 136 course designation.

COURSE SUBJECT	CA	NUMBER	137	TITLE	The History and Aesthetics of Cinema II (3)
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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 will ~~e~~Examines selected developments in cinema from 1945 to the present, with attention to various styles of artistic expression in film. May be of particular interest to students in other departments. Breadth-Humanities.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

FALL 2025

RATIONALE (must be included)

Change simply eliminates references to the outdated FPA 136 course designation.

COURSE SUBJECT	CA	NUMBER	210W	TITLE	Art and Visual Culture: Materials, Forms, Histories (3)
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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).

A course based on Studies exemplary readings designed to introduce students to a wide range of theories and methods of visual analysis and historical interpretation of works of art. Prerequisite: ~~21 units including six in CA history/theory courses and CA 168 or CA 118.~~ Students with credit for CA 210 may not take this course for further credit. Writing.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

FALL 2025

RATIONALE (must be included)

Change eliminates references to the outdated FPA course designation and lessens the prerequisites to make the course open to more students outside of the major and to ease the path for APCS majors to progress through the degree requirements.

COURSE SUBJECT	CA	NUMBER	316	TITLE	Intermediate Selected Topics in Cinema Studies (4)
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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 intermediate course in Explores critical studies in cinema ~~and addresses~~ a variety of topics. This course can be repeated once for credit if the topic is different. Students with credit for CA 337 may take this course for further credit if the topic is different. Prerequisite: ~~Nine units in CA courses including CA 136 or 137.~~

EFFECTIVE TERM AND YEAR FOR CHANGES

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

FALL 2025

RATIONALE (must be included)

Change to prerequisites to permit students to take course earlier in their programs and allows more students outside of SCA to take the course. Eliminates outdated reference to FPA course designation.

COURSE SUBJECT	CA	NUMBER	414	TITLE	Advanced Topic in the History of Art, Performance and Cinema (3)
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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"/>

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, performance and or cinema. This course can be repeated twice ~~four times~~ for credit if the topic is different. Prerequisite: 60 units, including one of CA 210W, 216, 228W, 235, 236, 257W, 316, 318 or 344. ~~CA 117 (or 167), 186, 210W (or 210) and 45 units.~~

EFFECTIVE TERM AND YEAR FOR CHANGES

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

FALL 2025

RATIONALE (must be included)

Change to prereqs to help ensure students only take this advanced course in the 3rd year or later, but also an expansion of possible pre-req courses to open the class to more students in their 3rd and 4th years.

A change to number of possible repetitions more realistically reflects our capacity to teach multiple different topics.

COURSE SUBJECT	CA	NUMBER	416	TITLE	Advanced Seminar in Cinema Studies (4)
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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).

Features: Intensive study and analysis of selected topics in film theory, history, criticism and aesthetics. Examples include: work of specific directors or periods; theories of narrativity; particular aspects of national cinemas, etc. This course can be repeated once for credit if the topic is different. ~~Students with credit for CA 436 may take this course for further credit if the topic is different.~~ Prerequisite: 60 units, including one of CA 216, 235, 236, 316 or 318 ~~CA 316 (or 337) or CA 318 (or 335)~~.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

FALL 2025

RATIONALE (must be included)

Change to prereqs to help ensure students only take this advanced course in the 3rd year or later, but also an expansion of possible pre-req courses to open the class to more students outside of APSC cinema studies stream in their 3rd and 4th years.
Eliminates references to outdated FPA course designations.

COURSE SUBJECT	CA	NUMBER	216	TITLE	Selected Topics in Cinema Studies (3)
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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 will eCovers~~ a specific topic within the field of cinema studies not covered in depth in other regularly scheduled courses. This course can be repeated once for credit if the topic is different. Prerequisite: One of CA 135, 136, 137, ~~or 186, 235, 236, 316 (or 337), 318 (or 335), 416 (or 436), or 30 units~~. Students with credit for CA 237 ~~under the same topic may not take this course for further credit if the topic is different.~~ Breadth-Humanities.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

FALL 2025

RATIONALE (must be included)

Changes simplify the prerequisite list but also now require at least one lower-division course on cinema studies or moving images and arts to ensure proper preparation.

COURSE SUBJECT CA NUMBER 318 TITLE Theory and Cinema (4)

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 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. May be of particular interest to students in other departments. Examines a range of historical and contemporary theoretical approaches to cinema and moving images in order to understand the development of film theory as a discipline. Through lectures, seminars and screenings, students will explore the ways in which cinema represents the world, impacts the psyche and the body, and functions politically and ideologically.~~ Prerequisite: Six units from among CA 136, 137, 216 ~~(or 237)~~, 236. Recommended: CA 210W (or 210). ~~Students with credit for CA 234 or CA 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 2025

RATIONALE (must be included)

Change to description to better represent how the course is taught as well as to make the description more accessible. The description also clarifies that film theory will be explored in relationship to films and not only examined as a discipline of thinking unto itself. Change to prerequisites eliminates references to course numbers that no longer exist or were changed some years ago. Eliminates reference to outdated FPA course designations.

COURSE SUBJECT	CA	NUMBER	217	TITLE	Introduction to Performance Studies
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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).

Traces the interdisciplinary origins of performance studies and brings its concepts and methods to bear on dance, music, theatre, performance art, and media performance.
~~Prerequisite: 45 units including one history/theory course within the School for the Contemporary Arts. Students with credit for CA 311 or under this topic may not take this course for further credit. Students with credit for CA 317 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 2025

RATIONALE (must be included)

Changes simplify the prerequisite list, making it more accessible to a broader range of students and easing course scheduling for students. Eliminates references to outdated FPA designation.

COURSE SUBJECT CA

NUMBER 312

TITLE Selected Topics in the Contemporary Arts(3) **RATIONALE** (must be included)

This course now exists as a "W" course: CA 312W, with identical content. Since 312 is now always taught as a "W" course, 312 is no longer required.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

FALL 2025

PLEASE DO THE FOLLOWING:

1. Attach a program impact list along with your course deletion form. Contact the Senate and Academic Services Office (sfuca@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:

This has no impact on our programs as the course was replaced by 312W.

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	314	TITLE	Readings in the History of Art, Performance and Cinema (3) *
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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 topic in the history of art, performance and cinema. This course can be repeated twice for credit if the topic is different. Prerequisite: ~~CA 117 (or 167), 186, and 210W (or 210). One of CA 210W, 216, 228W, 235, 236, 257W, 316, 318 or 344.~~

EFFECTIVE TERM AND YEAR FOR CHANGES

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

FALL 2025

RATIONALE (must be included)

ELimination of 210 or 210W opens course to students from majors other than APCS, since 210/210W is taken almost exclusively by APCS students. Also broadens the prereqs to permit a broader range of students to take the course.

COURSE SUBJECT

CA

NUMBER

319W

TITLE

Critical Writing in the Arts (3)

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).

Examines aspects of critical writing associated with the historical and contemporary arts and encourages students to participate as writers in the artistic and cultural debates of their day. Forms examined will include but not be limited to reviews, articles, descriptive synopses for exhibition and festival programs, curatorial essays, project proposals and artists' statements. Prerequisite: 45 units, including one of CA 210W, 216, 228W, 235, 236 257W, 316, 318 or 344 60 units including at least six units in CA history/theory courses. Students with credit for CA 319 may not take this course for further credit. Writing.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

FALL 2025

RATIONALE (must be included)

Reduces number of required units to take the class to make it easier for students to access course and fit into their program plans. At the same time requires one of the list of 2nd and 3rd year courses to ensure adequate experience in topics related to the contemporary arts. Eliminates reference to outdated FPA course designation.

COURSE SUBJECT	CA	NUMBER	315	TITLE	Sound Art: History and Concepts (4)
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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 lecture course + Investigates sound art as an interdisciplinary practice that draws its history and concepts from contemporary visual art, installation art, performance art, experimental music, and their various confluences. We will study historical precedents of experimental sound work as well as think critically and creatively about the themes and concerns that inform contemporary practices. Prerequisite: 45 units. Students with credit for CA 312 Special Topics in Art and Culture Studies under the title "Sound Art" may not take this course for further credit.~~

EFFECTIVE TERM AND YEAR FOR CHANGES

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

FALL 2025

RATIONALE (must be included)

Eliminates a concern about repetition of an older special topics course in sound art that is no longer relevant.

COURSE SUBJECT CA NUMBER 150 TITLE Introduction to Acting

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).~~Introduction to Acting (3)~~ Introduction to Theatre and Performance Making (3)~~An approach to the elements of acting~~ An introduction to live theatre and performance making for non-theatre and performance majors. ~~Work will include development of individual powers of expression—vocal, physical, intellectual, imaginative, and emotional.~~ Individuals will be introduced to a variety of theatre and performance making methods that explore time, space, contemporary aesthetics and text.**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Fall 2025

RATIONALE (must be included)

The SCA's Theatre & Performance program completely reconstructed its curriculum over the last two years. The new program received provincial approval in 2023 and was operating as of Fall 2024. The program now focuses on live theatre and performance creation rather than more traditional forms of acting and direction. CA 150's title of Introduction to Acting is a holdover from the previous curriculum and conflicts with the current one. CA 150 Introduction to Theatre & Performance is representative of the current program and better supports the capacities of the current faculty.

COURSE SUBJECT	IAT	NUMBER	351	TITLE	Advanced Human-Computer Interaction
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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"/>

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 will learn about and gain experience with a wide variety of interaction technologies, environments and architectures research methods, models, and frameworks useful for the design of interactive systems for supporting user interaction with systems in work, learning and play leisure purposes. Applied topics may Topics include, but are not limited to, collaboration and computers distributed and heterogenous interaction; and immersive, ubiquitous, and responsive environments; Application topics include knowledge work, community and organizational collaboration, security, trust and privacy; networking; and distributed and heterogeneous interfaces. Emphasis is on practical experience outcomes through a project that includes system analysis, design, and development plan, involving a group design/analysis project in advanced topics in human computer interaction.

Prerequisites: Completion of 48 units, including IAT 201 and IAT 265, with a minimum grade of C-. **Strongly Recommended:** IAT 267.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

This course is part of the new Evidenced-based Interactive Systems concentration at SIAT. To better align this course with other concentration courses the course description is being updated to reflect connection with other courses. The course is also being revised to better align with ACM IEEE recommendations around HCI curriculum.

As there is no requirement for programming knowledge in 351, the requirement of IAT 265 is being removed from the course. Students have also expressed confusion about 'recommended' courses, so this language is being removed from the calendar for clarity.

COURSE SUBJECT IAT NUMBER 320 TITLE Body Interface

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 checked="" 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).

New course title: Body as Interface (4)

Explores ideas of embodiment, ~~knowledge, and space through physical computing supporting within the human relationships to with technology. Throughout this course, students~~ Students will construct and analyze contemporary and historical models of bodily interaction with machines ~~through tangible, gestural and/or e-textile computational prototyping, understand physical practices of embodiment, and apply these concepts to representation, design, and the production of embodied artistic interfaces through various critical lenses.~~

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

As a course in the new Critical Making Concentration, the name of the course will change from IAT320-3 Body Interface to its new name: IAT320-4 **Body as Interface**. | The name-change and course description acknowledge the historical precedents within technological development that call upon a variety of the critical lenses of embodiment (feminism, gender, class, race/ethnicity, and history). These offer varying perspectives on the design and development of embodied technological interaction and interfaces. The Unit value changes from 3 to 4 credits to create an equivalency between most SIAT's 3rd year courses that have 4 credits. The course description also highlights physical computing, and a broader range of prototyping capacity based upon our expanding infrastructure capability in the Critical Making Concentration: this includes the Surrey Library e-textile *fabriccommons* makerspace, alongside the Materials Studio, SRYC room 3010, and the expansion of professional e-textile equipment support of our SIAT SRYC room 3350.

COURSE SUBJECT IAT NUMBER 452 TITLE Developing Design Tools

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 checked="" 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).

New course title: Developing Design Tools Evidence-based Interfaces

Introduces methodological approaches to theory-informed and evidence-driven design of multimodal interactive interfaces for customizing and developing software systems applications as design support tools to be employed in dynamic ~~design~~ environments comprising people, other ~~tools~~ agents, and their interactions ~~in relation~~ to the tasks to be performed. ~~Discusses~~ Synthesizes effective strategies ~~for to~~ interaction and interface software development to explore find the best matching solutions for a given application domain problem by modern methods borrowed from HCI, situation and applies the select methods in software design, prototyping, and evaluation. ~~Makes use of software development processes, languages, and notations in representing design of the tools being developed. Experiments with contemporary systems such as drafting tools (CAD), authoring applications (for games, Websites, animations), parametric design modeling systems, etc.; and searches their potentials to enhance design environments.~~

Prerequisites: Completing 60 units, including IAT 351 with a minimum grade of C-.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

User interface (UI) design is a creative practice that often requires solving ill-defined problems, understanding human agency, and adapting human and social cognition theories in an application domain. The solutions are based on theoretical and empirical evidence from cognitive user studies. The updated course will replace the technical (software engineering) components with knowledge and skills for synthesizing (a) human and social cognition theories and user studies relevant to UI development for problem characterization, (b) advanced UI prototyping techniques, and (c) reflection on the outcome as in real-world practice. Creating novel interfaces is a team activity; the students will also learn to communicate UI ideas in different representations, follow agile and iterative processes, and evaluate designs using evidence-informed decisions.

This course is part of the new Evidenced-based Interactive Systems concentration at SIAT. To better align this course with other concentration courses the course description is being updated to reflect connection with other courses.

COURSE SUBJECT IAT NUMBER 336 TITLE Materials in Design

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 checked="" 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).

New course title: Materials in Design Practice

Introduces material properties and performance in the context of physical and digital interactive artifacts. ~~Covers criteria~~ Develops practices of for material selection and use, including durability, environmental effects, tactile properties, life-cycle manufacturing fabrication processes, compatibility and effects of particular forms of use. Students gain knowledge in physical properties and affordances of materials, 3D printing, digital fabrication methods, including sustainability and ethical implications. Students will work in SIAT Solidspace Lab and Surry Library fabriccommons Makerspace. Prerequisite: Completion of 48 units, including IAT 102 and IAT 106, both ~~IAT 233~~ with a minimum grade of C-.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

IAT336-4 Materials in Practice | IAT 336-4 will require a name change from Materials in Design to Materials in Practice signaling its interdisciplinary focus across SIAT's disciplinary concentrations that extend beyond yet are also inclusive of Design. The revision of course description frames its context to includes sustainable and ethical considerations of the use of materials. Revisions will include the capacity to develop a broader range of making projects based upon the addition of critical infrastructure in the Surrey *fabriccommons* MakerSpace.

The previous prerequisite of IAT 233 will be removed as key practices such as 3D-printing will be integrated into this course, while computational modeling is not necessitated in the prerequisite chain. Have added in the 'completion of 48 units' to be consistent with our other 3rd year course language as well as IAT 102 and IAT 106 which include knowledge necessary to ladder into IAT 336

COURSE SUBJECT	ARCH	NUMBER	383	TITLE	Ancient and Forensic DNA
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input checked="" type="checkbox"/>	Prerequisite	<input 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).

Ancient and Forensic DNA ~~{3}~~{4}

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall, 2025

RATIONALE (must be included)

We have run this Arch 383 for over 20 years, many students have expressed their wish to see the course installed with a hands-on lab component. In Fall semester 2024, we did a test run, splitting the original three-hour lecture into two-hour lecture and one-hour lab. It was a great success, and students engaged and felt rewarded, but also felt one-hour lab (50minutes) went by too fast.

We have therefore proposed to increase Arch 383 from 3 credits to 4 credits, and then we can have two-hour lecture and two-hour lab.

COURSE SUBJECT	MATH	NUMBER	100	TITLE	Precalculus
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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 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).

Designed to prepare students for first year Calculus courses. Topics include language and notation of mathematics; problem solving; algebraic, exponential, logarithmic and trigonometric functions and their graphs. Prerequisite: Pre-Calculus 11 or Foundations of Mathematics 11 (or equivalent) with a grade of at least B or Pre-Calculus 12 (or equivalent), with a grade of at least C and SFU FAN credit, or SFU FAN X92 or FAN X99 course with a grade of at least B-, or achieving a satisfactory grade on the Simon Fraser University Quantitative Placement Test. MATH 100 may not be counted towards the mathematics minor, major or honours degree requirements. ~~Students with credit for MATH 150 or 151 or 154 or 157 may not take MATH 100 for further credit. Students with credit for MATH 110 may not take this course for further credit. Students who have taken MATH 150 or MATH 151 or MATH 154 or MATH 157 first may not take this course for further credit.~~ Quantitative.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

Added FAN X92 (B-) as an alternative prerequisite. Added the new course MATH 110 as equivalent. Clarified that MATH 150, MATH 151, MATH 154, and MATH 157 are antirequisites.

COURSE SUBJECT

MATH

130

TITLE

Geometry for Computer
Graphics**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 course in the application of geometry and linear algebra principles to computer graphical representation. Vector and matrix algebra, two and three dimensional transformations, homogeneous coordinates, perspective geometry. Prerequisite: Pre-Calculus 12 or Foundations of Mathematics 12 (or equivalent) with a grade of at least B, or MATH 100 with a grade of at least C, or MATH 110 with a grade of at least C. Quantitative.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

MATH 110 is a new course that should serve as an alternate prerequisite for MATH 130.

COURSE SUBJECT MATH NUMBER 150 TITLE Calculus I with Review

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).

Designed for students specializing in mathematics, physics, chemistry, computing science and engineering. Topics as for Math 151 with a more extensive review of functions, their properties and their graphs. Recommended for students with no previous knowledge of Calculus. In addition to regularly scheduled lectures, students enrolled in this course are encouraged to come for assistance to the Calculus Workshop (Burnaby), or Math Open Lab (Surrey). Prerequisite: Pre-Calculus 12 (or equivalent) with a grade of at least B+, or MATH 100 with a grade of at least B-, ~~or achieving a satisfactory grade on the Simon Fraser University Calculus Readiness Test~~. Students with credit for either MATH 151, 154 or 157 may not take MATH 150 for further credit. Quantitative.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

The Calculus Readiness Test is no longer offered to students who wish to challenge the prerequisites.

COURSE SUBJECT MATH NUMBER 151 TITLE Calculus 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"/>
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).

Designed for students specializing in mathematics, physics, chemistry, computing science and engineering. Logarithmic and exponential functions, trigonometric functions, inverse functions. Limits, continuity, and derivatives. Techniques of differentiation, including logarithmic and implicit differentiation. The Mean Value Theorem. Applications of differentiation including extrema, curve sketching, Newton's method. Introduction to modeling with differential equations. Polar coordinates, parametric curves. Prerequisite: Pre-Calculus 12 (or equivalent) with a grade of at least A, or MATH 100 with a grade of at least B, ~~or achieving a satisfactory grade on the Simon Fraser University Calculus Readiness Test.~~ Students with credit for either MATH 150, 154 or 157 may not take MATH 151 for further credit. Quantitative.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

The Calculus Readiness Test is no longer offered to students who wish to challenge the prerequisites.

COURSE SUBJECT	MATH	NUMBER	154	TITLE	Mathematics for the Life Sciences 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 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).

Designed for students specializing in the life sciences. Topics include: limits, growth rate and the derivative; elementary functions, optimization and approximation methods, and their applications, integration, and differential equations; mathematical models of biological processes and their implementation and analysis using software. Prerequisite: Pre-Calculus 12 (or equivalent) with a grade of at least B, or MATH 100 with a grade of at least C-, or MATH 110 with a grade of at least C-, or achieving a satisfactory grade on the Simon Fraser University Calculus Readiness Test. Students with credit for either MATH 150, 151 or 157 may not take MATH 154 for further credit. Quantitative.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

MATH 110 is a new course that should serve as an alternate prerequisite for MATH 154. The Department of Mathematics no longer offers the Calculus Readiness Test.

COURSE SUBJECT	MATH	NUMBER	157	TITLE	Calculus I for the Social Sciences
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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 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).

Designed for students specializing in business or the social sciences. Topics include: limits, growth rate and the derivative; logarithmic, exponential and trigonometric functions and their application to business, economics, optimization and approximation methods; introduction to functions of several variables with emphasis on partial derivatives and extrema. Prerequisite: Pre-Calculus 12 (or equivalent) with a grade of at least B, or MATH 100 with a grade of at least C, or MATH 110 with a grade of at least C, or achieving a satisfactory grade on the Simon Fraser University Calculus Readiness Test. Students with credit for either MATH 150, 151 or 154 may not take MATH 157 for further credit. Quantitative.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

MATH 110 is a new course which should serve as an alternate prerequisite for MATH 157. The Department of Mathematics no longer offers the Calculus Readiness Test.

COURSE SUBJECT MBB NUMBER 309W TITLE Biochemistry Laboratory

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).

Contemporary techniques in biochemistry including protein purification, immunochemical methods, and lipid characterization. Prerequisite: MBB 231, with a minimum grade of C. ~~Recommended: CHEM 215 and CHEM 286 precede MBB 309W.~~ Writing.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

Removal of recommended courses to reflect changes made to the program.

COURSE SUBJECT **PHYS** NUMBER **385** TITLE **Quantum II****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).

Stern-Gerlach experiments and the structure of quantum mechanics; operators; angular momentum and spin; Schrödinger equation and examples for time evolution; systems of two spin-½ particles; density operators; wave mechanics in one dimension including the double slit experiment, particle in a box, scattering in one dimension, tunnelling; one-dimensional harmonic oscillator; coherent states. Prerequisite: ~~MATH 252 or MATH 254~~ MATH 251; MATH 260; ~~PHYS 255 or ENSC 380~~; PHYS 285 or ENSC 380 or CHEM 260. All prerequisite courses require a minimum grade of C-. Recommended Prerequisite: PHYS 211. Quantitative.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025**RATIONALE** (must be included)

- 1) Full vector calculus (MATH 252/254) is not needed for PHYS 385. The highest level of math required is multivariable calculus in different coordinate systems (MATH 251). This change will improve accessibility/flexibility of scheduling for students.
- 2) The alternate prerequisite path for Engineering Physics students is misplaced. ENSC 380 includes the frequency methods, resonance phenomena, integral transforms and complex number manipulation used in PHYS 255. This change, along with the planned addition of PHYS 285 – Quantum I to the Engineering Physics program will allow access for both Physics and Eng. Phys. students.

COURSE SUBJECT **PHYS** NUMBER **395** TITLE **Computational Physics****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).

Computer-based approaches to solving complex physical problems. Includes topics such as Monte-Carlo and molecular dynamics techniques applied to thermal properties of materials; dynamical behavior of systems, including chaotic motion; methods for ground state determination and optimization, including Newton-Raphson, simulated annealing, neural nets, and genetic algorithms; symplectic methods; and analysis of numerical data. Prerequisite: MATH 260 or MATH 310; PHYS 255 or ENSC 380; CMPT 120 or equivalent. All prerequisite courses require a minimum grade of C-

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

The proposed change allows an alternate prerequisite path for Engineering Physics students. ENSC 380 includes the frequency methods, resonance phenomena, integral transforms and complex number manipulation used in PHYS 255.

COURSE SUBJECT	ACMA	NUMBER	101	TITLE	Introduction to Insurance
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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).

General overview of universally useful concepts in insurance, pensions and financial management. Typical life, health and property & casualty insurance products; underwriting; pricing; reserving; regulation; social insurance; retirement plans and annuities; financial planning: mortgages, loans, wealth management.
~~Corequisite: MATH 150, 151, 154 or 157.~~ Quantitative/Breadth-Science.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

ACMA 101 is an introductory course aimed at a broad range of students. It does not use calculus, so the corequisites are not needed. Students admitted to SFU and prepared for a Q course should have sufficient mathematical knowledge to succeed.

COURSE SUBJECT	ACMA	NUMBER	201	TITLE	Interest Theory and Applications
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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"/>

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).

Measurement of interest, present value. Equations of value. Annuities. Loans and amortization schedules. Bonds and other securities. Cash flows: yield rates, duration, convexity, immunization. Yield curves: spot rates, forward rates. Interest rate swaps. ~~Covers part of the syllabus for Exam FM of the Society of Actuaries and Exam 2 of the Casualty Actuarial Society.~~ Prerequisite: MATH 152 with a minimum grade of C; or MATH 155 or MATH 158, with a grade of at least B. Recommended: ACMA 101 or 102. Students with credit for ACMA 210 cannot take ACMA 201 for further credit. Quantitative.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

Consistent with other ACMA courses, professional exam equivalencies are removed from the course description; current equivalencies will be noted on the department's website instead. Completion of an introductory actuarial course is recommended for both technical content and disciplinary context.

COURSE SUBJECT	ACMA	NUMBER	321	TITLE	Fundamentals of Short-Term Insurance
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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 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).

Short-term insurance and reinsurance coverages. Basic ratemaking and reserving for short-term insurance. Models for severity and frequency of claims. Coverage modifications: deductibles, policy limits, coinsurance. Estimation and selection of parametric models in the context of insurance. Prerequisite: ACMA 101 or 102 with a minimum grade of C. Corequisite: STAT 330, ACMA 231. Students with credit for ACMA 355 may not take this course for further credit. Quantitative.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

The existing prerequisite of ACMA 101 provides disciplinary context and introduces key concepts (e.g., risk pooling, diversification, insurance as risk transfer) required in ACMA 321. The new ACMA 102 achieves the same goals, providing an alternative pathway to the 300-level actuarial courses. The prerequisite is updated to reflect this.

COURSE SUBJECT	ACMA	NUMBER	340	TITLE	Financial Economics for Actuaries
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number	<input checked="" type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input checked="" type="checkbox"/>	Description	<input checked="" 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).

ACMA 340 441 - Financial Economics for Actuaries Actuarial Finance
 Option pricing models and their application to insurance and financial risks.
~~Introduction to finance and derivatives. Option strategies and risk management.~~
~~Discrete-time Binomial~~ models. Black-Scholes-Merton model. Market-making, hedging, and option Greeks, and hedging. ~~Introduction to e~~Exotic options.
Economic scenario generators. Mean-variance portfolio theory and asset pricing models. ~~Covers part of the syllabus for Exam 3F of the Casualty Actuarial Society.~~
 Prerequisite: BUS 315 and one of ACMA 231 or BUS 232, ACMA 201 (or 210), both with a minimum grade of C. ~~Corequisite: STAT 285. Students with credit for ACMA 340 cannot take ACMA 441 for further credit.~~ Quantitative.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

The professional actuarial syllabus covering actuarial finance and investments has been expanding in recent years, no longer fitting reasonably in a 3-unit course. We worked with the Beedie School of Business to get access to the new version of BUS 315 (effective Fall 2025) for the basic part of the content: introduction to derivatives and option strategies (~40% of ACMA 340), and mean variance portfolio theory and asset pricing models (~5% of ACMA 340) are covered in considerable detail there. Coverage of the remaining topics in ACMA 340 is expanded in ACMA 441 and is complemented by an in-depth treatment of economic scenario generators. With a third-year prerequisite and more advanced content, this course is upgraded to the 400-level. ACMA 441 will also be cross-listed as a required graduate course in our MSc program (ACMA 801), replacing ACMA 830 which had chronically low enrollments.

COURSE SUBJECT	ACMA	NUMBER	301	TITLE	Long-Term Actuarial Mathematics I
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number	<input checked="" type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input checked="" type="checkbox"/>	Description	<input checked="" 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).

ACMA 301 311 – Fundamentals of Long-Term Actuarial Mathematics4

~~Life tables, b~~Basic survival models, life tables. Basic life insurance and annuities: present value random variables, premium calculations, ~~reserves~~ policy values. Computer applications for pricing and reserving for life insurance portfolios. ~~Covers part of the syllabus for Exam LTAM of the Society of Actuaries.~~ Prerequisite: One of ACMA 101 or ACMA 102, and all of ACMA 201 (or 210), ACMA 231 and STAT 270, all with a minimum grade of C. Corequisite: STAT 285. Students with credit for ACMA 301 or ACMA 320 cannot take ACMA 301 311 for further credit. Quantitative.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

We are revising our three-course sequence on long-term insurance (ACMA 301/401/475) to better align with the professional syllabi of the Society of Actuaries and the Canadian Institute of Actuaries. The content of this course (the first in the sequence) remains the same, so a two-way equivalence with the former version can be maintained. The new course name reflects the position of this course in the new sequence. Professional exam equivalencies are removed from the course description; current equivalencies will be noted on the department's website instead. The numbering convention introduced for ACMA courses in Fall 2024 is continued here. Prerequisites are added to ensure appropriate laddering of learning outcomes: ACMA 101/102 provide disciplinary context, while ACMA 231 equips students with computing tools. The corequisite of STAT 285 is replaced with a prerequisite of STAT 270 as this course only needs probability, not statistics.

COURSE SUBJECT	ACMA	NUMBER	401	TITLE	Long-Term Actuarial Mathematics II
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TYPE OF CHANGES. Please type 'X' for the appropriate revision(s):

Course number	<input checked="" type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input checked="" type="checkbox"/>	Description	<input checked="" 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).

ACMA 401 411 – Advanced Long-Term Actuarial Mathematics-II

Advanced survival models. Multiple state models. Advanced premium calculations and ~~reserves~~ policy values. Profit testing. Pension plans and retirement benefits. Computer applications for pricing, reserving and risk measurement of life insurance portfolios. ~~Covers part of the syllabus for Exam LTAM of the Society of Actuaries.~~ Prerequisite: ACMA 301 311 (or 301 or 320), with a minimum grade of C. Students with credit for ACMA 401 or ACMA 425 cannot take ACMA 401 411 for further credit. Quantitative.

[Suggested short title: Adv LT Actuarial Math]

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

We are revising our three-course sequence on long-term insurance (ACMA 301/401/475) to better align with the professional syllabi of the Society of Actuaries and the Canadian Institute of Actuaries. The content of this course (the second in the sequence) remains largely the same, with a slight reweighting of topics, so a two-way equivalence with the former version can be maintained. The new course name reflects the position of this course in the new sequence. Professional exam equivalencies are removed from the course description; current equivalencies are noted on the department's website. The numbering convention introduced for ACMA courses in Fall 2024 is continued here.

COURSE SUBJECT	ACMA	NUMBER	421	TITLE	Advanced Models for Short-Term Insurance
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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).

Risk measures. Extreme value theory: models and applications. Aggregate models for claims. Regression-based approaches to claims modeling: generalized linear models, linear mixed models. Prerequisite: ACMA 321 with a minimum grade of C. Corequisite: STAT 350. Students with credit for ACMA 803 may not take this course for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

RATIONALE (must be included)

ACMA 421 is being cross-listed with the new ACMA 803. A two-way equivalency is added to reflect this.

COURSE SUBJECT ACMA

NUMBER 455

TITLE Loss Models II

RATIONALE (must be included)

The content of this course was replaced by a combination of ACMA 421 and 422, and the course was removed from the actuarial science program requirements effective Fall 2024. We will not be offering this course any more.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

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:

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

ACMA

NUMBER

465

TITLE

Demography and Mortality Models

RATIONALE (must be included)

This content is no longer relevant for the professional actuarial syllabus.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

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COURSE SUBJECT ACMA

NUMBER 475

TITLE Theory of Pension

RATIONALE (must be included)

Industry trends show a steady decline in career opportunities in pensions, matched by very low interest in this course over the past decade. Also, the portion of the content of ACMA 475 that is relevant for the professional actuarial syllabus is now covered more efficiently in other courses. Consequently, there is no need for a 13-week course on pension theory any more.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2025

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.
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