

MEMORANDUM



ATTENTION:	Senate
FROM:	Elizabeth Elle, Vice-Chair, Senate Committee on Undergraduate Studies
RE:	Course Changes (SCUS 23-27)
DATE:	March 3, 2023

For information:

Acting under delegated authority at its meeting of March 2, 2023, SCUS approved the following curriculum revisions effective Fall 2023.

a. Faculty of Applied Sciences1. School of Computing Science

- (i) Prerequisite change for CMPT 210
- (ii) Description change for MACM 101

2. School of Sustainable Energy Engineering

- (i) Prerequisite change for SEE 352

b. Faculty of Arts and Social Sciences1. School of Criminology

- (i) Title and description change for CRIM 311

2. Department of Sociology and Anthropology

- (i) Prerequisite, title and description change for SA 351 and 352

c. Beedie School of Business

- (i) Prerequisite changes for BUS 314, 338, and 424
- (ii) Prerequisite and equivalent statement changes for BUS 320
- (iii) Equivalent statement changes for BUS 321
- (iv) Description changes for BUS 374
- (v) Description and prerequisite changes for BUS 421
- (vi) Prerequisite change for BUS 314 and 338 (*Fall 2024*)

d. Faculty of Science

1. Department of Chemistry

(i) Description and prerequisite change for CHEM 317

2. Dean of Science Office

(i) Description, unit and prerequisite change for SCI 190

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 NUMBER TITLE

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).

Probability has become an essential tool in modern computer science with applications in randomized algorithms, computer vision and graphics, systems, data analysis, and machine learning. The course introduces the foundational concepts in probability as required by many modern applications in computing. Prerequisite: MACM 101, MATH 152, CMPT 125 or CMPT 135, and (MATH 240 or MATH 232), all with a minimum grade of C-.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

RATIONALE (must be included)

Algorithmic knowledge provided by a computing course such as CMPT 125/135 will be helpful for students in understanding the applicability of probability to computing. MATH 232 is a suitable alternative to MATH 240 as a pre-requisite.

COURSE SUBJECT NUMBER TITLE

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"/>

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Introduction to ~~counting~~, graph theory, trees, induction, automata theory, formal reasoning, modular arithmetic. Prerequisite: BC Math 12 (or equivalent), or any of MATH 100, 150, 151, 154, 157. Quantitative/Breadth-Science.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

RATIONALE (must be included)

Graph theory and trees were removed from the CS major with the introduction of CMPT 210 – Probability and Computing in place of MACM 201. We are returning these topics to the CS undergraduate curriculum with this proposal.

To make room for graph theory and trees in MACM 101, we are moving counting to CMPT 210, which already covers these topics as part of its combinatorics and probability material.

COURSE SUBJECT	SEE	NUMBER	352	TITLE	Applied Thermodynamics and Energy Conversion
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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).

Application of thermodynamics, chemistry, and transport physics to energy conversion technologies and systems. Analysis of energy conversion systems with emphasis on efficiency, performance, and environmental impact. Prerequisite: SEE 222, SEE 224, ~~SEE 331~~.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2023



RATIONALE (must be included)

SEE 331 pre-requisite is irrelevant to the content of SEE 352 as per the instructor.

COURSE SUBJECT	CRIM	NUMBER	311	TITLE	Minorities and the Criminal Justice System
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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 checked="" type="checkbox"/>	Description	<input checked="" type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

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~~Minorities and the Criminal Justice System~~

Social Inequalities and the Criminal Justice System

~~An analysis of political, economic, and ethnic minorities and their relationship with the criminal justice system. Critical analysis of possible discordance, disharmony or conflict between ethnic and racial minorities such as Native Indians, Inuit, Metis, Doukhobor and others and the legal and social norms of the 'host' majority. Women and the criminal justice system.~~

An analysis of the intersections between social inequalities and the criminal justice system through an examination of systemic and structural racism, discrimination, and oppression. Students will critically analyze the experiences of different groups (across race, ethnicity, religion, class, gender, sexual orientation, (dis)ability, health, among others) and their interactions with the criminal justice system and access to justice through an exploration of justice-related policies, legislation, and practices.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2023

RATIONALE (must be included)

We are proposing that we make amendments to the current course title and calendar description of CRIM 311: Minorities and the Criminal Justice System. The changes align with providing an anti-racist and critical lens into these issues. The proposed changes seek to problematize systemic inequalities and discrimination within the CJS and society's representation of inequalities, rather than problematizing the individual. The foundational aspects of the course and description remain the same, but the proposed changes could present a more appropriate and informed approach to discussing these issues in a critical way.

Course Title Change: Rationale

Although we recognize the intention of using the term 'minorities' as a catch-all to discuss the experiences of different groups within society and their 'relationship' with the criminal justice system, the positioning of this terminology as a course title is potentially harmful to various communities and students. Given the impact of systemic discrimination, systemic racism, systems of oppression, among others, various communities are deemed 'minority' groups, seemingly problematizing the individual, rather than society's representation, classification, and positioning of these groups. As the title stands, the focus of issue seems to rest on the individual (which may inaccurately depict the intention behind the course), rather than on the histories of discrimination and oppression rooted in our societies, and their interactions with the criminal justice system. We wish to bring a critical lens to this and position the problem as one of society and the system, rather than on the individual (which again, may be the true purpose of the course, but misrepresented through the current title). The new faculty member who is teaching the course is a woman of colour, and states that reading this title feels harmful and unsettling. Thus, we propose a need for changing the title of this course – to not only mitigate the impact of the positioning of the language in the title, but also to be more representative of what the course is truly about and how it is taught. The inherent purpose of the course is to critically analyze the intersections between social inequalities and exclusion and the criminal justice system, grounded in discussions of the impact of systemic racism, discrimination and oppression of different, diverse groups in Canada – this should be the focus of the title.

Calendar Description Change: Rationale

As noted above, the purpose of the course is to expose and engage students to/in an analysis of the intersection of identities and the criminal justice system through centering the experiences of people who experience social exclusion and inequity in the CJS due to systemic and structural/systemic discrimination and oppression. Embedded within these discussions would be drawing connections between structural inequalities across systems and in society, reflected in the CJS (policies, practices, treatment of certain groups), as well as an emphasis on social inequalities and social harms as societal problems. As such, we feel that there are a few areas of the description that should be modified or added. If discussing a number of social inequalities or inequities, we believe that the description should be more inclusive to other groups, across different social locations and identities. Some of the language in the description is outdated and potentially harmful. Currently, the calendar description is not reflective of the course outcomes/learning objectives. The calendar description should send the message that this course is an analysis of criminal justice (system), social exclusion, and inequalities within the system through identifying forms of discrimination and oppression, practices, and policies that perpetuate or mitigate inequitable treatment in the system. The course description should seek to take a critical perspective on addressing the inequitable experiences within the system.

COURSE SUBJECT NUMBER TITLE

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

Course number Units Prerequisite
 Title Description Equivalent Statement

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SA 351 – ~~Classical Marxist Thought~~ Crisis, Critique, and Marx's Capital (S) (4)

~~A detailed study of classical Marxist social thought.~~ Marx's Capital is a central reference point across the social sciences. It has been maligned and criticized by many, but it has also inspired and guided the activities of numerous political parties, trade unions, social and revolutionary movements, and scholarly fields. Prerequisite: SA ~~250~~ 150.

EFFECTIVE TERM AND YEAR FOR CHANGES

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



RATIONALE (must be included)

Updated description and title to provide more information to students about course content.

COURSE SUBJECT NUMBER TITLE

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

Course number Units Prerequisite
 Title Description Equivalent Statement

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SA 352 - Games, Sports, and Practices ~~Cultures~~ (AS) (4)

An ~~anthropological examination~~ exploration of games, sports, and practices and ~~sports that explores their social, cultural, and political meanings, and aesthetic dimensions. Applies cross-cultural perspectives to explore the shaping of identities through athletic practices as well as the impacts of globalization on snorting passions. Particular attention is focused upon the creation of sport ethnographies.~~ will be given to the poetics and aesthetics of athletic pursuits and disciplines grounded in the body, while keeping in mind the variety of individual bodies and personalities competing and practicing. Prerequisite: SA 101 or 150 ~~201W~~.

EFFECTIVE TERM AND YEAR FOR CHANGES

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



RATIONALE (must be included)

Updated description and title to reflect evolving faculty member subject matter expertise.

Changed discipline designation to improve accessibility for majors requiring S credits.

COURSE SUBJECT **NUMBER** **TITLE**

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).

Start-up and early-stage ventures have particular financial challenges associated with the uncertain and unproven nature of the project. This course analyzes how entrepreneurs and their financial backers can spot, create and manage value. Topics covered include opportunity recognition, cash flow forecasting, valuation methodologies, financial contracts, and careful negotiations. Various sources are considered for start-up capital (private debt, angel financiers, venture capitalists, development banks), and different strategies are considered for harvesting or exiting (initial public offerings, merger, acquisition, leveraged buy-out, shut down) a venture. Prerequisite: BUS 238 or BUS 240 or BUS 254, with a minimum grade of C-; 45 units.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

RATIONALE (must be included)

Recognizing the addition of BUS 240 as a core requirement to the BBA and as a concentration prerequisite. It is being added as an "or" option to support the transition of adding this course as a prerequisite.

COURSE SUBJECT **NUMBER** **TITLE**

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

Course number Units Prerequisite

Title Description Equivalent Statement

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An introduction to the theory and practice of the management of technological innovation. The external environment for technological innovation is examined through investigation of national and regional systems of innovation. The internal firm capabilities for creating and sustaining innovative firms are explored in detail, from the creation of ideas through to the commercialization of new products and services. Proficiency is gained in identifying sources of innovative value, implementing processes to capture it, and creating strategies for commercialization. Prerequisite: BUS 238 or BUS 240 or BUS 254, with a minimum grade of C-; 45 units.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

RATIONALE (must be included)

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COURSE SUBJECT NUMBER TITLE

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

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Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input checked="" type="checkbox"/>

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In-depth coverage of the accounting methods, problems and limitations associated with assets. Alternative valuation bases will be emphasized and illustrated together with the impact on income. Integration of theory and practice in relation to the treatment of assets. Prerequisite: ~~BUS 254~~ BUS 251 with a minimum grade of C-; 45 units. ~~Students with credit for COMM 320 may not take this course for further credit.~~ Quantitative.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

RATIONALE (must be included)

The current prerequisites are predicated on the notion that all accounting concentrators will become CPAs. This change allows students who may not wish to become professional accountants a more accessible path to the accounting courses. In addition, it has been more than 40 years since the Faculty of Business Administration (now the Beedie School of Business) was constituted; COMM courses have not been offered since 1980.



COURSE SUBJECT NUMBER TITLE

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

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
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In-depth coverage of accounting, methods, problems, and limitations, associated with liabilities and owners' equity. Prerequisite: BUS 320 with a minimum grade of C-; 45 units. ~~Students with credit for COMM 321 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 2023

RATIONALE (must be included)

It has been more than 40 years since the Faculty of Business Administration (now the Beedie School of Business) was constituted; COMM courses have not been offered since 1980.

COURSE SUBJECT NUMBER TITLE

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

Course number Units Prerequisite
 Title Description Equivalent Statement

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~~This course will examine theories of organization which use the organization as a basic unit of analysis. It will show how the structure and internal processes of an organization are linked to and partially determined by forces in the external environment of the organization. Contextual factors such as the technology and corporate strategy of the organization will also be examined. Organizations, not individuals, are this course's basic unit of analysis. We will seek to answer questions about organizations, such as why they exist, what objectives they pursue, how they function, how they survive and grow, who they interact with, how they interact with each other, how they are evaluated, and how they respond to failure. In answering these questions, the course will introduce students to major theoretical perspectives and issues studied in organizational theory.~~
Prerequisite: 45 units; BUS 272 (or 372) with a minimum grade of C-.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

RATIONALE (must be included)

The learning objectives remain the same. Course description has been revised to better reflect the course content that has evolved over time.

COURSE SUBJECT NUMBER TITLE

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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EFFECTIVE TERM AND YEAR FOR CHANGES

Consideration of methods by which accounting theory is developed with an ~~and examination of specific models including historical costs, replacement costs, resale price and price level adjustment models.~~ emphasis on the relationship between accounting information, capital market behaviour and management actions.
Prerequisite: ~~BUS 207 (or ECON 201 or ECON 301), BUS 321, and BUS 360W,~~ both ~~all~~ with a minimum grade of C-; 60 units.

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

RATIONALE (must be included)

The current prerequisites are predicated on the notion that all accounting concentrators will become CPAs. This change allows students who may not wish to become professional accountants a more accessible path to the accounting courses. In addition, the emphasis on micro-economic policy has been replaced by a focus on capital market theory which is covered in the course.



COURSE SUBJECT	BUS	NUMBER	424	TITLE	Advanced Managerial Accounting
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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"/>

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Prerequisite: BUS 322, ~~BUS 336~~, and BUS 360W, ~~all~~ both with a minimum grade of C-; 60 units.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2023

RATIONALE (must be included)

The course description is being adjusted to match course content.

COURSE SUBJECT NUMBER TITLE

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).

Start-up and early-stage ventures have particular financial challenges associated with the uncertain and unproven nature of the project. This course analyzes how entrepreneurs and their financial backers can spot, create and manage value. Topics covered include opportunity recognition, cash flow forecasting, valuation methodologies, financial contracts, and careful negotiations. Various sources are considered for start-up capital (private debt, angel financiers, venture capitalists, development banks), and different strategies are considered for harvesting or exiting (initial public offerings, merger, acquisition, leveraged buy-out, shut down) a venture. Prerequisite: BUS 238 or BUS 240 ~~or BUS 254~~, with a minimum grade of C-; 45 units.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

RATIONALE (must be included)

BUS 240 was recognized as a core requirement to the BBA and as a concentration prerequisite in Fall 2023. The prerequisite BUS 254 Managerial Accounting I is no longer relevant or required for Innovation & Entrepreneurship concentration courses.

COURSE SUBJECT NUMBER TITLE

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 the theory and practice of the management of technological innovation. The external environment for technological innovation is examined through investigation of national and regional systems of innovation. The internal firm capabilities for creating and sustaining innovative firms are explored in detail, from the creation of ideas through to the commercialization of new products and services. Proficiency is gained in identifying sources of innovative value, implementing processes to capture it, and creating strategies for commercialization. Prerequisite: BUS 238 or BUS 240 ~~or BUS 254~~, with a minimum grade of C-; 45 units.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

RATIONALE (must be included)

BUS 240 was recognized as a core requirement to the BBA and as a concentration prerequisite in Fall 2023. The prerequisite BUS 254 Managerial Accounting I is no longer relevant or required for Innovation & Entrepreneurship concentration courses.

COURSE SUBJECT	CHEM	NUMBER	317	TITLE	Analytical Environmental Chemistry
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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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Principles and applications of the methodologies of analytical chemistry employed in the determination of substances in air, water, ~~and soil and plants~~, with particular emphasis upon sampling and sample preparation. Prerequisite: CHEM 316 ~~and 371, both~~ with a minimum grade of C-. ~~Corequisite: CHEM 372.~~ Quantitative.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2023

RATIONALE (must be included)

The reduction in required prerequisites and corequisites allows students to access this experiential course more readily, while still providing students with an appropriate level of theoretical background.

COURSE SUBJECT	SCI	NUMBER	190	TITLE	Special Topics in Science Interdisciplinarity
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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 checked="" type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input checked="" type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

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Subject matter normally spans the expertise of at least two departments/units. Variable units: 1, 2, 3. The exact assignment of units (1, 2 or 3) will be announced prior to each term. This course can be repeated once for credit.

Prerequisite: ~~Permission of the instructional team.~~ Only Faculty of Science students may take this course.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2023

RATIONALE (must be included)

We would like the ability to offer a variety of interdisciplinary science courses for 1st and 2nd year science majors to introduce them to various aspects of science. The exact content and unit count will depend on the instructor. Some proposed topics include success strategies in science courses, entrepreneurship, and science pedagogy. Some of these courses may be similar to those offered to FASS students in the FASS Forward program.