

## MEMORANDUM

ATTENTION: Senate  
FROM: Elizabeth Elle, Vice-Chair, Senate Committee on Undergraduate Studies  
RE: Course Changes (SCUS 23-01)  
DATE: January 6, 2023


**For information:**

Acting under delegated authority at its meeting of January 5, 2023, SCUS approved the following curriculum revisions effective Fall 2023.

**a. Faculty of Arts and Social Sciences****1. Department of History**

- (i) Course number, prerequisite, title, description and equivalent statement change for HIST 433W and 445

**2. Department of Humanities**

- (i) Title and description change for HUM 101W
- (ii) Deletion of HUM 103
- (iii) Description change for HUM 277
- (iv) Prerequisite change for HUM 349
- (v) Title and description change for HUM 359, and 387
- (vi) Units and description change for HUM 390
- (vii) Course number, description and equivalent statement changes for HUM 418

**3. Department of Philosophy**

- (i) Deletion of Phil 477 and 478

**4. Department of Political Science**

- (i) Equivalent statement changes for POL 443

5. Department of Psychology

- (i) Prerequisite change for PSYC 210
- (ii) Title change for PSYC 241
- (iii) Prerequisite and title change for PSYC 402

**b. Beedie School of Business**

- (i) Prerequisite changes for BUS 393, 411, 473 and 474

**c. Faculty of Communication, Art and Technology**

1. School of Interactive Arts and Technology

- (i) Unit changes for IAT 309W, 312, 320, 333, 334, 336, 343, 344, 352, 359, 410, 431, 438, 443 and 445

**d. Faculty of Environment**

1. Department of Geography

- (i) Prerequisite change for GEOG 251, 253 and 255 (Spring 2024)

**e. Faculty of Science**

1. Department of Earth Sciences

- (i) Title, description and prerequisite change for EASC 420 (*SCUS 22-72c*)
- (ii) Prerequisite change for EASC 313

2. Department of Physics

- (i) Prerequisite change for PHYS 365

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	<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).

~~HIST~~ HUM 433W - Italian Films, Italian ~~Histories~~ Humanities (4)

Explores the representation of modern Italian history through the medium of film. ~~HIST 433W~~ HUM 433W may be repeated for credit only when a different topic is taught. Prerequisite: 45 units. ~~, including nine units of lower division history, or permission of the instructor.~~ Writing. Students with credit for HIST 433W under the same topic may not take this course for further credit.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

**RATIONALE** (must be included)

This course is taught by Dr. Paul Garfinkel. His appointment has transferred from the History department to Global Humanities and History has agreed to transfer this course from HIST to HUM as part of that transfer.

<b>COURSE SUBJECT</b>	HIST	<b>NUMBER</b>	445	<b>TITLE</b>	Problems in Modern Italian History
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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"/>

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~~HIST HUM~~ HUM 445 – Problems in Modern Italian History (4)

Examines topics in ~~the social, political, and cultural history of Italy in the nineteenth and twentieth centuries~~ Italian history and culture through film, literature, primary sources, and/or art. Content may vary from offering to offering. ~~See course outline for further information.~~ HIST HUM 445 may be repeated for credit only when a different topic is taught. Prerequisite: 45 units. including nine units of lower division history. Students with credit for HIST 445 under the same topic may not take this course for further credit.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Fall 2023

**RATIONALE** (must be included)

This course is taught by Dr. Paul Garfinkel. His appointment has transferred from the History department to Global Humanities and History has agreed to transfer this course from HIST to HUM as part of that transfer.



COURSE SUBJECT  NUMBER  TITLE

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HUM 101W – Introduction to ~~the~~ Global Humanities (3)

An introduction to issues and concepts central to the study of the Humanities around the world. Through exposure to primary materials drawn from different ~~periods and disciplines~~, periods, disciplines, and regions, students will become acquainted with a range of topics and ideas relating to the study of human values and human experience. Students with credit for HUM 101 may not take this course for further credit. Writing/Breadth-Humanities.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Fall 2023



**RATIONALE** (must be included)

Changing the title of the department's introductory course to reflect the new department name: Global Humanities.





COURSE SUBJECT  NUMBER  TITLE

**RATIONALE** (must be included)

Since the retirement of Professor Paul Dutton, there is no longer a faculty member who can teach this course and there are no plans to offer the course in the future.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

**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  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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Surveys the history of Greek civilization from Mycenaean Greece to the ~~twentieth century~~ Roman Republic's conquest of the Greek city-states. Students who have taken HIST 307 under this topic or HIST 277 or HS 277 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)

**RATIONALE** (must be included)

The altered course description is required due to three developments. First, HUM 110 already provides the long-term perspective previously covered by HUM 277. Second, the narrower chronological focus of HUM 277 will bring it into alignment with our other second-year course offerings in the Hellenic Studies Certificate, which also possess narrower rather than broader chronological focuses (e.g., Antiquity or the modern age). Lastly, the narrower chronological focus will help highlight the linkages between Ancient Greece and the global resonance of its world in clearer ways. Given the Department of Global Humanities' focus on such points, the course will provide a solid foundation for our other offerings at the upper-division level.



<b>COURSE SUBJECT</b>	HUM	<b>NUMBER</b>	349	<b>TITLE</b>	Rome after Rome: The Byzantine Middle Ages from the end of Antiquity to the Crusades (4)
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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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**HUM 349 - Rome after Rome: The Byzantine Middle Ages from the end of Antiquity to the Crusades (4)**

The history of the Medieval Romans and their polity surveys the "other" Middle Ages. The course familiarizes students with the social, political, economic, and cultural history of Byzantium from the rise of the Caliphate in the seventh century to the Carolingians, the Crusades, the emergence of the Italian maritime republics and the ascent of the Seljuk Turks. Prerequisite: 45 units, ~~including six units of lower division history~~. Students with credit for HIST 308, HS 308, HIST 317, HS 317, HS 349 or HIST 349 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 2023

**RATIONALE** (must be included)

HUM 349 is offered exclusively through the Global Humanities department and is no longer cross-listed with HIST 349. With the current pre-requisites of "six units of lower division history" HUM declared students are not able to enroll in the course and the lower division history courses are not necessary to meet the curricular requirements of the course.

As well, removing the lower division history requisites aligns HUM 349 with other upper division HUM courses (45 units).



<b>COURSE SUBJECT</b>	HUM	<b>NUMBER</b>	359	<b>TITLE</b>	Constructing the Nation State in Greece, the Balkans and the Mediterranean
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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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HUM 359 Constructing the Nation State in ~~Greece~~, the Balkans and the Mediterranean

Investigates the construction of nation states in ~~Greece~~, the Balkans and the Mediterranean with a focus on the ideas of the Nation and the Nation State. Examines specific cases such as Greece, Yugoslavia, Bulgaria, and the development of Israel. Prerequisite: 45 units. Students with credit for HIST 359 or HS 359 may not take this course for further credit.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Fall 2023



**RATIONALE** (must be included)

The change was initiated by the HIST department for the equivalent course HIST 359 for the following reason: "The change will broaden the scope and appeal of the course to students without materially changing it."

<b>COURSE SUBJECT</b>	HUM	<b>NUMBER</b>	387	<b>TITLE</b>	Selected Topics in European Art and Cultures
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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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HUM 387 - ~~Selected Topics in European Art and Cultures~~ Other Europes: Arts and Cultures (4)

An interdisciplinary approach to European art, material culture, and/or literature in the modern period with attention to the global dimensions of cultural formation. Repeat for credit. Prerequisite: 45 units.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Fall 2023



**RATIONALE** (must be included)

Global humanities, including broader consideration of transnational and cross-cultural relevance of regional histories.





COURSE SUBJECT  NUMBER  TITLE

**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 checked="" type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

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Prerequisite: Two of any 300-division humanities courses or permission of the chair plus permission of instructor. This course may be used only once for credit towards a degree and is reserved for humanities major, joint major, extended minor, minor and PBD students. Variable units: 1, 2, 3, or 4 units.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Fall 2023



**RATIONALE** (must be included)

Adding the variable units allows student more flexibility in how they wish to design their directed studies in consultation with faculty.

<b>COURSE SUBJECT</b>	HUM	<b>NUMBER</b>	418	<b>TITLE</b>	Greeks Go Global: From Antigone to Atwood
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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 type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input checked="" type="checkbox"/>	Equivalent Statement	<input checked="" type="checkbox"/>

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HUM 418 319 – Greeks Go Global: From Antigone to Atwood

Studies Greek ~~male and female~~ archetypes, texts and ~~ideas~~ concepts in an ~~international~~ a transnational context. Offers a critical analysis on the continuities and discontinuities of the representations of Greek cultural references, ~~and contextualizes the aforementioned~~ contextualized in gender theory, politics, philosophy, and literary theory. Prerequisite: 45 units. Students with credit for HUM 418, HS 418 or HUM 480 or HS 403 under the title "After Modernities: Greeks Go Global" may not take this course for further credit. '

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Fall 2023

**RATIONALE** (must be included)

The description better reflects the themes and approaches of the new concentrations in the Global Humanities Department. Course materials will be examined within a broader cultural context and theoretical framework.

Course number change to lower perceived enrollment barrier for non-HUM majors and to reflect the accessibility of this course to non-HUM students.



COURSE SUBJECT  NUMBER  TITLE

**RATIONALE** (must be included)

This course will no longer be required, once the modifications have been made to the Honours Program.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

**PLEASE DO THE FOLLOWING:**

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4. If no further changes other than deletion is required in program requirements, please list those programs in the box below:

Empty box for listing programs affected by deletion.

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  NUMBER  TITLE

**RATIONALE** (must be included)

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**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

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<b>COURSE SUBJECT</b>	POL	<b>NUMBER</b>	443	<b>TITLE</b>	Grey Zone Warfare and International Security in the Age of Disruptive Technologies (4)
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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

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

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Provides an overview of how great powers (e.g., Russia, USA), smaller states (e.g., Iran and North Korea), and non-state actors employ nuclear threats and other traditional intimidation techniques alongside emerging “disruptive” technologies (e.g., Artificial Intelligence, Social Media, Cyber, Big Data) to coerce one another. Whereas traditional military threats are issued openly, grey zone tactics of disinformation, espionage, and violence utilize ambiguity, strategic surprise and deception to accomplish their strategic objectives. Students who have taken POL 422 with topic “Grey Zone Warfare and Security in the Age of Disruptive Technologies” cannot take this course for academic credit. Prerequisite: Eight upper division units in political science or permission of the department.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Fall 2023

**RATIONALE** (must be included)

This calendar change ensures students who have taken POL 422 under this special topic cannot also receive credit for our new POL 443.



<b>COURSE SUBJECT</b>	PSYC	<b>NUMBER</b>	210	<b>TITLE</b>	Introduction to Data Analysis in Psychology
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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: ~~PSYC 201W~~ and BC high school Math 12 with a minimum grade of C (2.0) or BC high school Math 11 with a minimum grade of B- (2.67) or any level MATH or STAT course with a C- (1.67) or FAN X99 taken at SFU with a minimum grade of C (2.00). Corequisite: PSYC 201W, but prior completion recommended. Quantitative.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Fall 2023



**RATIONALE** (must be included)

The instructors of Psyc 210 and the members of the quantitative area agree that Psyc 210 (research methods) does not contain content that is required to successfully complete Psyc 210 but can be completed concurrently. This will allow for greater flexibility for students such that they can more quickly declare their psychology major (which requires completion of Psyc 201 and 210).

<b>COURSE SUBJECT</b>	PSYC	<b>NUMBER</b>	241	<b>TITLE</b>	Introduction to Abnormal Psychology
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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 type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

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Introduction to ~~Abnormal Psychology~~ Psychological Disorders and Neurodiversity

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Fall 2023

**RATIONALE** (must be included)

There has been a broad shift in the field away from considering conditions such as Attention Deficit Hyperactivity and Autism as disorders or abnormal to seeing them as normal variations of behaviour and neurodiversity. Many departments of psychology across the country have begun changing the name of such courses to better reflect course content, textbook authors are considering name changes, and a major journal has changed their name from Journal of Abnormal Psychology to Journal of Psychopathology and Clinical Science. Thus, we are changing the name of this course to be in step with current thinking in the field.



<b>COURSE SUBJECT</b>	PSYC	<b>NUMBER</b>	402	<b>TITLE</b>	Advanced Topics in History and Theoretical Psychology
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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).

Advanced Topics in History, Quantitative and Theoretical Psychology PSYC 402 (4)

Course can be repeated for credit. Students may not take this course for further credit if similar topics are covered. See Psychology department website for course description. Prerequisite: PSYC 201, 210, ~~308 (or 207)~~, 60 units, and a CGPA of 3.0. Other prerequisites vary by topic offering.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Fall 2023

**RATIONALE** (must be included)

Updating course to encompass the Quantitative area as this is the upper division special topics course for the History, Quantitative and History area. We are removing the prerequisite of psyc 308 (History of Psychology) as it is not required for iterations of this course that focus on quantitative topics. Psyc 207 is defunct.

**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).

Common law, equity, and statute law; contracts, agency, and negotiable instruments; partnership and corporation law; international commercial law.  
Prerequisite: 45 units. ~~BUEC 391 is not to be taken concurrently with BUS 393.~~  
Students with credit for COMM 393 may not take this course for further credit.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

**RATIONALE** (must be included)

BUEC 391 is no longer offered at SFU and as such, this course is no longer available to be completed concurrently with BUS 393.



<b>COURSE SUBJECT</b>	BUS	<b>NUMBER</b>	411	<b>TITLE</b>	Fixed Income Security Analysis and Valuation
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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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As an introduction to the market valuation of fixed income securities, this course covers: history of fixed income securities; valuation methods for fixed income securities, including fixed and variable annuities, government and corporate bonds, defined benefit pension plans, bonds with contingencies, fixed income derivative securities; and, fixed income risk management using duration and convexity measures. Prerequisite: BUS 315 and ~~BUS 360~~ **BUS 360W**, 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)

BUS 360 is no longer offered at SFU and has since been replaced with BUS 360W.

<b>COURSE SUBJECT</b>	BUS	<b>NUMBER</b>	473	<b>TITLE</b>	Advanced Operations Management
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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

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

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The systems approach to management of operations including the design, implementation, control and improvement of processes in order to grow social, environmental, and economic value for stakeholders involved in bringing goods and services to market. Prerequisite: ~~BUS 373, BUS 360W, Students admitted prior to Fall 2022 with (BUS 373 or BUS 336), and BUS 360W, or students admitted Fall 2022 onwards with BUS 373 and BUS 360W;~~ 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)

BUS 373 was introduced as a program requirement for students admitted to the BBA program in Fall 2023 onward. Students admitted to the program prior to Fall 2022 are required to complete BUS 336 as part of their program requirements rather than BUS 373.

Allowing students admitted to the BBA program prior to Fall 2022 to use BUS 336 rather than BUS 373 as a pre-requisite for BUS 473 minimizes negative impacts on degree progression and provides students with greater access to BUS 473.

**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 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).

Exploration of the entire network of companies that work to design, produce, distribute, service and recycle their goods and services to customers. Efficient flow of information, material and finances along the entire chain allows firms to collaborate in a manner that benefits both corporations and customers. Analysis of the broader supply chain enables improvements in procurement, customer response time, risk sharing, on-time delivery, inventory levels, and transportation and global logistics. Prerequisite: ~~BUS 360W, 336 and 473~~, Students admitted prior to Fall 2022 with (BUS 373 or BUS 336), and BUS 360W, or students admitted Fall 2022 onwards with BUS 373 and BUS 360W; both all with a minimum grade of C-; 60 units. Students who have taken BUS 490-495 under this topic may not take this course for further credit.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

**RATIONALE** (must be included)

BUS 373 was introduced as a program requirement for students admitted to the BBA program in Fall 2023 onward. Students admitted to the program prior to Fall 2022 are required to complete BUS 336 as part of their program requirements rather than BUS 373.

Allowing students admitted to the BBA program prior to Fall 2022 to use BUS 336 rather than BUS 373 as a pre-requisite for BUS 474 minimizes negative impacts on degree progression and provides students with greater access to BUS 474.



## SIAT Proposal for Course Unit Changes and Program Requirements Changes

Final: November 25, 2022

Author: Marek Hatala (UCC Chair)

### Summary

UG programs in Interactive Arts and Technology are known for their interdisciplinarity: a mix of theoretical, practical, and experiential learning, with a strong focus on technological proficiency across several key disciplines comprising design, interactive systems, and new media. Being grounded on advanced computational technologies, the undergraduate courses require students to master multiple complex computing tools to develop their thinking and demonstrate their knowledge and skills. Many courses rely on team projects to overcome the barrier posed by the complexity of the tools and drive the need for teamwork to develop even basic-level assignments in these complex environments. As a result, SIAT students spend a significant amount of time on their courses, leading to a very low average of the number of courses taken per semester. This negatively contributes to the long graduation time, which sits stubbornly at 15.9 semesters to graduate (17.7 for students admitted from high school).

These facts were recognized in SIAT for some time. In 2018 a large-scale undergraduate survey mapped the weekly workload across SIAT courses. However, it was after SFU Senate's guidance for course hours per unit that clearly positioned those results outside of the upper end of the recommended range. In this proposal, by increasing the unit count for several SIAT upper division courses, we aim to re-align course time expectations for SIAT students with other students at SFU. This also results in changes to the program requirements which are accompanying this proposal.

### Background

SIAT programs have 787 majors and 101 minors (IRP, 2021/22). SIAT majors take a long time to complete their degrees (see Figure 1). Our analysis showed there are several reasons for students to graduate late, including low course availability to complete the requirements (due to low faculty complement to the number of majors and type of courses taught), students not pursuing other minors because of unavailability of lower division prerequisite courses on Surrey campus, and workload in SIAT courses resulting in SIAT students taking on an average lower number of courses per semester than in other schools (source: Andrea Barbera, FCAT Director of Advising).

#### 7. Time to IAT Baccalaureate Degree Completion (by Completion Year)

	2017/18	2018/19	2019/20	2020/21	2021/22
<b>All Completers:</b>					
Average Semesters to Complete Degree	16.5	16.1	17.4	16.6	15.9
<b>Completers Admitted from Secondary:</b>					
Average Semesters to Complete Degree	18.5	17.7	18.8	18.2	17.7
<b>Completers Admitted from Post-Secondary:</b>					
Average Semesters to Complete Degree	12.7	12.8	14.0	13.0	12.9

Figure 1. IAT graduation times

To address the availability issue, SIAT increased the number of upper-division courses, mainly by using sessional instructors, which resulted in a drop in UD courses taught by CFL to 58% (2021/22). We saw a slight improvement in the graduation rates, but these were minimal. In 2018 we conducted workload related survey (Survey 1) where 76 students provided 435 course ratings. In preparation for the external review, in Spring 2022, we conducted extensive surveys of undergraduate students (Survey 2, n=322) and alumni (Survey 3, n=138), with one focus question related to the workload. We report on the findings in the next section.

### Course Time Demands

As stated in the introduction, grasping content in many SIAT courses requires mastering complex design and media tools. As a result, most SIAT courses are run in the two-hour lectures plus two-hour tutorial/labs mode. Additionally, students are expected to develop competency in the tools by working through tutorials such as those on LinkedIn Learning. Although this supports the flipped mode of instruction where contact time is devoting to instructor/student interaction, it places a time burden on the student. Secondly, most courses require a significant team component due to the complexity of the development environments for students' projects (such as VR, animation, interactive prototyping, and gaming). The team component, due to its logistics demands, is the second driver for the increase in workload.

As a result of the course demands, Study 1 found that many courses exceed the recent SFU Senate recommendation of 2-3 hours per unit. Figure 2 shows the student-reported workload from Study 1 for IAT courses at 300 and 400 levels (the data and possible changes in the lower division are being discussed). At present, all courses except 499 are 3-unit courses.

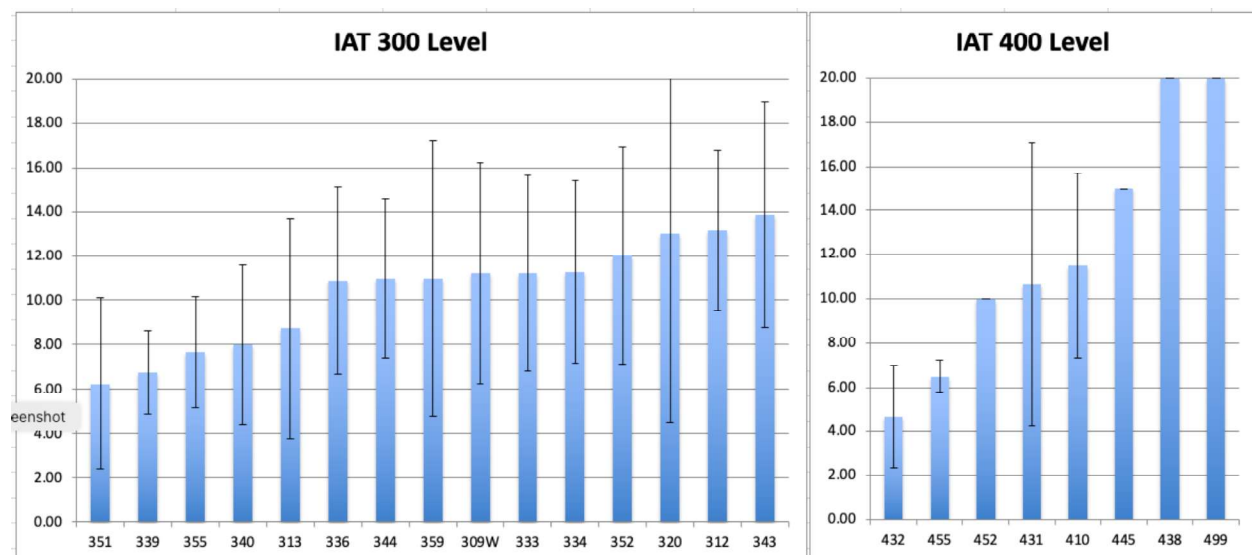


Figure 2. Average number of hours for IAT upper-division courses (UG survey, 2018)

The Spring 2022 survey asked the following question: *'Have you taken any SIAT courses where the amount of work was difficult to manage?'* 83.5% of students (269 out of 322 participants) answered affirmatively. The qualitative analysis of the answers found three main themes that contribute to unmanageable workload: course requirements and expectations, teamwork, and across-courses impacts (e.g., projects at the same time). One of the prominent themes from the alumni survey (Survey 3) pointed more directly to the solution, which showed concerns regarding course units being misaligned with the reality of the courses' workload.

To address the issue, we have examined each course indicated in all studies in which the workload did not align with SFU Senate's mandate of 2-3 hours per unit. In particular, we examined courses for potential overlaps and the pedagogical need for time-intensive team projects. After considering the adjustments, we advance the proposal for unit change to several IAT upper division courses and changes to the program requirements affected by the unit changes.

## Proposal

### *Changes of course units*

The units in the following courses should be set as follows shown in Table 1.

*Table 1. Proposed unit assignment for courses.*

	From (units)	To (units)
IAT 309W	3	4
IAT 312	3	4
IAT 320	3	4
IAT 333	3	4
IAT 334	3	4
IAT 336	3	4
IAT 343	3	4
IAT 344	3	4
IAT 352	3	4
IAT 359	3	4
IAT 410	3	4
IAT 431	3	4
IAT 438	3	6
IAT 443	3	4
IAT 445	3	4

Note: The only course where we propose an increase to 6 units is IAT438. It is a studio-type course that functions as a capstone course for students with a focus on User Experience Design.

The projects developed in this course are substantial in nature and developed to the level of portfolio quality that enabled approximately three quarters of students to gain internships and/or employment in the industry. The student projects regularly win prizes in professional user experience competitions such as Vancouver UX Design Industry Awards (2017 (2), 2018 (2), 2019 (1), and 2021 (1)). The average annual enrollment is approximately 40 students.

The units of the remaining 10 upper division courses are unchanged.

#### *Changes to majors and second-degree program requirements*

The change to course units affected several program requirements. The proposed changes aim to maintain the original mandate for SIAT programs, namely to provide interdisciplinary programs bridging computing, design, and media. With the increasing weight of individual courses, the minimum number of required courses will be lower, affecting the interdisciplinary mandate of the degree. This results in a change to the specification of the IAT UD requirements.

The current requirement of 30 IAT UD units, which worked together with the requirement of 24 units (BA or BSc) from the list of courses spanning two of three SIAT areas (media/design and design/interactive systems). With 3 unit courses and 30 IAT UD units requirement, the requirements warranted that students would have to take 9 courses from at least two disciplinary areas plus IAT309W. With the change of several courses to 4 units, and one course to 6 units, it would be possible to complete the degree with the 6+1 courses (6 could be from one area and IAT309W). The proposed change is to explicitly specify 9 required upper division courses (8 disciplinary courses + IAT309W), in addition to the requirement of a minimum of 30 units. The students may opt for a combination of 3 and 4-unit courses. If they choose only 3 unit courses and IAT309W, they will have to take 9 disciplinary courses (as it is the case at present), if they choose at least two other 4 unit courses, they can meet the requirements of 30 UD units and 9 required courses.

#### *Changes to Honours programs*

The changes to the Honours program mimic those outlined for the major.

#### *Changes to Joint Major programs*

Structurally, SIAT Joint Majors with Business and with Communication follow the same template. The requirement is based on taking 5 courses (15 units) from one of the concentrations and 6 additional UD units. The proposed change maintains the 21 UD unit requirement. The change replaces the 5-course requirement with a 15-units requirement.

#### *Changes to the minor program*

No changes are required.

#### **Attachments:**

Program modification forms for 10 SIAT degrees.

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 basic quantitative techniques for the collection of geographic data. Topics include describing data, gathering samples, theoretical distributions, linking samples and populations, testing significance, and exploring spatial relationships all within practical, real-world application contexts. ~~Prerequisite: GEOG 100 or 111.~~ Quantitative.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

**RATIONALE** (must be included)

Past experience has shown that students without these prerequisites are still able to excel in the course. By removing these prerequisite barriers we would be better able to serve existing GEOG and FENV students, attract new enrollments, and further contribute to other programs across the various SFU campuses.



<b>COURSE SUBJECT</b>	GEOG	<b>NUMBER</b>	253	<b>TITLE</b>	Introduction to Remote Sensing
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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).

An introduction to the theories and practices of remote sensing, including sensors and platforms, image collection, preliminary image analysis and interpretation, and a review of remote sensing applications in environmental monitoring and resource management. ~~Prerequisite: GEOG 111.~~ Quantitative/Breadth-Science.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Spring 2024

**RATIONALE** (must be included)

Past experience has shown that students without this prerequisite are still able to excel in the course. By removing this prerequisite barrier we would be better able to serve existing GEOG and FENV students, attract new enrollments, and further contribute to other programs across the various SFU campuses.



<b>COURSE SUBJECT</b>	GEOG	<b>NUMBER</b>	255	<b>TITLE</b>	Geographical Information Science 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).

A basic overview of Geographical Information Systems and Science; GIS software, hardware, data structures and models; spatial data, operations and algorithms; practical applications and limitations. ~~Prerequisite: GEOG 100 or 111 or permission of instructor.~~ Students with credit for GEOG 354 may not take this course for further credit. Quantitative.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Spring 2024

**RATIONALE** (must be included)

Past experience has shown that students without these prerequisites are still able to excel in the course. By removing these prerequisite barriers we would be better able to serve existing GEOG and FENV students, attract new enrollments, and further contribute to other programs across the various SFU campuses.

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 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

FROM: EASC 420 ~~Petroleum Geology~~ Energy Geosystems

~~Elements of the petroleum system, including basin type, source rock origination, migration, and trapping mechanisms. Techniques used to identify and map potential hydrocarbon reservoirs in the subsurface, including geophysical methods, surface mapping, well log correlation, and core/chip sample descriptions will be discussed. This material will be presented in a context that demonstrates the life cycle of a hydrocarbon field from exploration (early), delineation (assessment), and production (mature) stages. Datasets available during different stages of development will be discussed in light of their pertinence to optimal reservoir performance. Covers all aspects of subsurface energy resource extraction and its impacts on the environment. Topics covered may include blue hydrogen resources, CO<sub>2</sub> sequestration, LNG, geothermal energy, conventional and unconventional hydrocarbon exploration and exploitation, fracking, waste-water disposal, land fragmentation, and climate change.~~

~~Prerequisite: EASC 201, EASC 207-302 or EASC 312, and EASC 304. All with a grade of C- or better.~~

TO: EASC 420 Energy Geosystems

Covers all aspects of subsurface energy resource extraction and its impacts on the environment. Topics covered may include blue hydrogen resources, CO<sub>2</sub> sequestration, LNG, geothermal energy, conventional and unconventional hydrocarbon exploration and exploitation, fracking, waste-water disposal, land fragmentation, and climate change.

Prerequisite: EASC 302 or EASC 312, and EASC 304. All with a grade of C- or better.



expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Fall 2023

**RATIONALE (must be included)**

Over the past 8 years, interest in Petroleum Geology has waned considerably, even though subsurface energy extraction continues to provide most of the energy and raw materials for products used globally. The proposed change to the course title is intended to more clearly convey that this course evaluates more than petroleum resources. Over the years, the EASC 420 course has progressively included the closely related topics of CO<sub>2</sub> sequestration, fracking, unconventional resources, and LNG.

The revisions to the course description for EASC 420 updates and modernizes the wording of course content already being delivered to students. These course description changes more explicitly state the wide range of subsurface energy resources about which the students will learn. The description also makes it clear that the benefits and drawbacks associated with each form of energy extraction will be discussed.

Be aware that more than 90% of the overall course content remains essentially the same as that previously delivered. The proposed changes require only minor revisions to several of the existing lectures and the addition of 2 new lectures that will be focused on lithium brines and geothermal energy. Furthermore, there are no changes being made to the laboratory component of the course, as the techniques employed for evaluating the subsurface remain the same, regardless of the energy resource being evaluated.

The changes to the prerequisites are intended to expand the accessibility of EASC 420 to Earth Science students, as the course is offered only every second year. The areas of background knowledge deemed necessary for successful completion of EASC 420 include: 1) sedimentology (EASC 302) and/or stratigraphy (EASC 312), and 2) subsurface fluid flow (EASC 304). Note that EASC 201 is a prerequisite for *both* EASC 302 and EASC 312, and so needs not be included in prerequisite list.



COURSE SUBJECT

EASC

NUMBER

313

TITLE

Introduction to Soil and Rock Engineering

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

- Course number       Units       Prerequisite
- Title       Description       Equivalent Statement

**FROM:** EASC 313 Introduction to Soil and Rock Engineering

An introduction to the engineering properties and behavior of soil and rock. Laboratory and field measurements of soil and rock properties. Applications in engineering design will be illustrated with case studies of slope stability, road design, foundations and underground excavations. Emphasis will be placed on the importance of soil and rock mechanics in the resources sector.

Prerequisite: EASC 101, 204 or permission of the instructor. All, with a grade of C- or better.

**TO:** EASC 313 Introduction to Soil and Rock Engineering

An introduction to the engineering properties and behavior of soil and rock. Laboratory and field measurements of soil and rock properties. Applications in engineering design will be illustrated with case studies of slope stability, road design, foundations and underground excavations. Emphasis will be placed on the importance of soil and rock mechanics in the resources sector.

Prerequisite: EASC 204 with a grade of C- or better.

**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).

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Fall 2023

**RATIONALE** (must be included)

EASC 101 is a prerequisite for EASC 210, which is the prerequisite for EASC 204 and therefore listing it is unnecessary. This clarifies the prerequisite for students, many of whom believed that “EASC 101, 204 or permission of the instructor” could be read as “EASC 101 *or* EASC 204”.

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).

Structure and properties of semiconductors, semiconductor theory, theory and operation of semiconductor devices, semiconductor device technology.  
 Corequisite: PHYS 285; and PHYS 321; ~~both with a minimum grade of C-~~, or permission from the department. Students with credit for ENSC 224 or ENSC 324 may not take PHYS 365 for further credit. Quantitative.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

**RATIONALE** (must be included)

PHYS 285 & 321 were changed from prereqs to coreqs a few years ago without removing the minimum grade requirements.