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MEMORANDUM

ATTENTION Senate
FROM Peter Hall, Chair
Senate Committee on Undergraduate
Studies
RE: Course Changes (SCUS 23-79)

DATE October 13, 2023

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For information:

Acting under delegated authority at its meeting of October 12, 2023 SCUS approved the following curriculum revisions effective Summer 2024.

a. Faculty of Applied Sciences

1. School of Engineering Science

- (i) Prerequisite change for ENSC 450 and 495

b. Faculty of Communication, Art and Technology

- (i) Title and description change for IAT 244

c. Faculty of Science

1. Department of Chemistry

- (i) Prerequisite change for CHEM 121 (Fall 2024)

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	ENSC	NUMBER	450	TITLE	VLSI Systems Design
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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).

Prerequisite: (ENSC 225 or ~~ENSC 226~~ or MSE 251 or SEE 231) and ENSC 350, all with a minimum grade of C- and a minimum of 80 units.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2024



RATIONALE (must be included)

SEE 231 is equivalent to ENSC 225 & MSE 251.



COURSE SUBJECT	ENSC	NUMBER	495	TITLE	Introduction to Microelectronic Fabrication
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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).

Prerequisite: ENSC 225 or ~~ENSC 226~~ or MSE 251 or PHYS 365 or SEE231, with a minimum grade of C- and permission of the instructor and a minimum of 80 units. Enrollment in this course is by application only.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2024



RATIONALE (must be included)

SEE 231 is equivalent to ENSC 225 & MSE 251.

COURSE SUBJECT	IAT	NUMBER	244	TITLE	Digital Photography I: Post Photography
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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"/>

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).

TITLE CHANGES:
 Digital, Virtual and AI Photography ~~Photography I: Post Photography~~

DESCRIPTION CHANGES:
 An introduction to digital photography using mobile technologies, free software and online platforms. ~~that is open to beginners in which students will learn comprehensive skills in camera work, studio lighting and image post-processing.~~ The focus of the course is on developing a final portfolio that demonstrates a wide range of technical, aesthetic, stylistic, genre and conceptual approaches to digital photography, including the use of generative AI platforms and real-time rendered virtual image production. Students are encouraged to experiment and develop their own eye and approaches, while learning the fundamentals of digital image production and workflows, including output for web and print. Prerequisite: Completion of 21 units.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Summer 2024

RATIONALE (must be included)

IAT 244 has previously been taught with the use of specialized equipment available on loan or in production spaces in SIAT. The course is not part of SIAT's core and has seen declining enrolment for several years. This updated version the course will not require specialized equipment that is only available for loan on the Surrey campus, making it more broadly accessible to SFU students. As well as no longer requiring specialized equipment, the course will now cover emerging topics on AI generated photography from a creative and theoretical standpoint.

COURSE SUBJECT	CHEM	NUMBER	121	TITLE	General Chemistry and Laboratory 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).

Atomic and molecular structure; chemical bonding; thermochemistry; elements; periodic table; gases liquids, solids, and solutions. This course includes a laboratory component. Students with credit for CHEM 120 or 125 may not take this course for further credit. Prerequisite: Chemistry 12 with a minimum grade of B-, or CHEM 109 or 111 with a minimum grade of C-. Quantitative/Breadth-Science.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Fall 2024

RATIONALE (must be included)

Data shows that students with below a B grade in CHEM 12 perform very poorly in CHEM 121 and this prerequisite change ensures that students sufficiently understand the background material required to succeed in CHEM 121.