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MEMORANDUM

ATTENTION	Senate	DATE	June 7, 2024
FROM	Peter Hall, Chair Senate Committee on Undergraduate Studies	PAGES	1/2
RE:	Course Changes (SCUS 24-59)		

For information:

Acting under delegated authority at its meeting of June 6, 2024 SCUS approved the following curriculum revisions effective Spring 2025.

a. Faculty of Applied Sciences

1. School of Engineering Science

(i) Description changes for ENSC 225 and 424

b. Faculty of Arts and Social Sciences

1. Department of World Languages and Literatures (SCUS 24-42, *effective Fall 2024)*

(i) B-Hum designations for CHIN 100, CHIN 110, CHIN 191, GERM 100, GERM 110, ITAL 100, ITAL 110, JAPN 100, JAPN 110, SPAN 100, and SPAN 110

c. Faculty of Communication, Art and Technology

1. School of Communication

(i) Description and prerequisite change for CMNS 395
(ii) Description and units change for CMNS 497
(iii) Prerequisite and units change for CMNS 498

2. School of Interactive Arts and Technology

(i) Prerequisite change for IAT 333

d. Faculty of Environment

1. Department of Geography

(i) B-Soc and B-Hum designations for GEOG 161

e. Faculty of Science

1. Department of Mathematics

(i) Prerequisite and equivalent statement change for MATH 152
(ii) Description changes for MATH 155
(iii) Prerequisite change for MATH 251 and 469

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.

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

COURSE MODIFICATION FORM

COURSE SUBJECT ENSC **NUMBER** 225 **TITLE** Microelectronics I

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 teaches analog/digital electronics and basic device physics in the context of modern silicon integrated circuits technology. Topics include: qualitative device physics and terminal characteristics; implementations and models of basic semiconductor devices (diodes, BJTs and MOSFETs); circuit simulation via SPICE; basic diode circuits; transistors as amplifiers and switching elements; temperature effects and compensation; single-stage transistor amplifiers; biasing, current sources and mirrors.~~

Introduces the fundamentals of electronic devices with applications to active electronic circuits. Topics include physical structure and terminal characteristics of diodes and transistors; application of large and small signal device models in elementary amplifiers, current mirrors, and bias networks; behavioral models and frequency limitations of operational amplifiers.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2025

RATIONALE (must be included)

Course outline change is to reflect what is really taught in the course as well as what should be taught as per CEAB Curriculum requirement at 2nd year Introductory Active Electronic Devices and Circuits course.

COURSE SUBJECT	ENSC	NUMBER	424	TITLE	Multimedia Communications Engineering

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 covers the technical basis for multimedia communications systems. The main topics are as follows: methods for audio and visual signal compression and processing; the communications requirements of multimedia systems, such as synchronization, quality of service and bandwidth; the architectures and protocols associated with multimedia communications networks.~~

Covers the technical basis for multimedia communications systems. The main topics are as follows: the underlying theories for key techniques in audio and visual signal compression and processing, including transform, quantization, and entropy coding; Popular image and video compression standards such as JPEG and H.264/265/266; Introduction to deep learning and its applications in multimedia.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2025

RATIONALE (must be included)

Original course outline is outdated. Outdated contents are removed and new topics are added to the course, still maintaining the curriculum requirement and providing students with the much-needed foundational knowledge, empowering them for continuous learning in this rapidly evolving field.

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MEMORANDUM

ATTENTION	SCUS	**DATE**	February 27, 2024
FROM	Jill Sutherland, Director University Curriculum & Institutional Liaison	**PAGES**	1
RE:	Approved WQB Designations (new)		

Throughout February 2024 the SCUS certification sub-committees reviewed and approved the below courses for new Writing (W), Quantitative (Q), and Breadth (B) designations, effective Fall 2024. These courses are to be reviewed again in 5-years.

MOTION: That SCUS review and approve the following WQB designations under delegated authority, effective Fall 2024.

Breadth-Humanities Approvals

- CHIN 100 – Mandarin Chinese I
- CHIN110 – Mandarin Chinese II
- CHIN 191 – Heritage Mandarin Chinese I
- GERM 100 – Introductory German I
- GERM 110 – Introductory German II
- ITAL 100 – Introductory Italian I
- ITAL 110 – Introductory Italian II
- JAPN 100 – Japanese I
- JAPN 110 – Japanese II
- SPAN 100 – Introductory Spanish I
- SPAN 110 – Introductory Spanish II

Sub-Committee Members
Writing: Erin Barley (FSCI), Leanne Barlow (BUS), Tara Holland (FENV)
Quantitative: Justin Grey (FSCI), Martin Santamaria (FASS), Rina Zazkis (EDUC)
B-HUM: David Coley (FASS), Arne Eigenfeldt (FCAT), Emily O'Brien (FASS)
B-SCI: Helen Bailey (FAS), Sarah Johnson (FSCI), Rochelle Tucker (HSCI)
B-SOC: Milena Droumeva (FCAT), Tiffany Muller Mrydahl (FASS), Dennis Sandgathe (FENV)

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

COURSE MODIFICATION FORM

COURSE SUBJECT CMNS **NUMBER** 395 **TITLE** Communication Practicum I

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).

First term of work experience for students in the ~~School of Communication's Co-operative Education Program~~ co-operative education program. Units from this course do not count towards the units required for an SFU degree. Graded as pass/fail (P/F). Prerequisite: ~~Complete Bridging Online at least two terms before anticipated co-op placement. Students must then enroll with the co-op program by the second week of the term preceding the work term of application, and have a minimum GPA of 2.7.~~ Acceptance in the co-operative education program.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2025

RATIONALE (must be included)

Alignment with Co-op practicum courses in other programs and faculties.

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

COURSE MODIFICATION FORM

COURSE SUBJECT CMNS **NUMBER** 497 **TITLE** Honours Research Proposal

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).

CMNS 497 - Honours Research Proposal ~~(5)~~ (4)

Preparation for honours research project, including literature review, ethics approval (if necessary), and presentation of work in progress at end of term. Minimum grade of "B" is required in order to continue in CMNS Honours Program ~~(Option A)~~, and take CMNS 498 in a future term. Prerequisite: Students accepted into honours program only.

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

Spring 2025

RATIONALE (must be included)

Reduce credit values for Honours thesis proposal from 5 to 4. Rationale for this is that 5 credits is a lot for writing a thesis proposal (it is less work than a 5 credit course).

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

COURSE MODIFICATION FORM

COURSE SUBJECT CMNS **NUMBER** 498 **TITLE** Honours Research Project

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).

CMNS 498 - Honours Research Project ~~(10)~~ (6)

Intensive work in a particular topic in the general field of communication. Involves an extensive individual research project under the direct supervision of at least one CMNS faculty member, who will provide guidance and critical feedback as necessary. Presentation of completed project at end of term. Prerequisite: Successful completion of CMNS 497~~-5, Honours Research Proposal,~~ with grade of "B" or higher.

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

Spring 2025

RATIONALE (must be included)

Reduce credit values for Honours research project from 10 to 6. The required length of the thesis is currently quite long (60 pages). We would therefore reduce the recommended thesis length down to 40 pages.

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

COURSE MODIFICATION FORM

COURSE SUBJECT IAT **NUMBER** 333 **TITLE** Interaction Design Methods

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 concepts of design practice and related design methods for interaction designers. Design methods include ethnography, personas, design games, role-playing, scenarios, participatory workshops, and prototyping.

Prerequisite: Completion of 48 units, including ~~IAT-235~~ IAT-238 with a minimum grade of C- or IAT-235 with a minimum grade of C- completed before the Spring 2025 term.

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

Spring 2025

RATIONALE (must be included)

Introducing the new IAT-238 course as a pre-requisite for the upper-division courses in the Designing Interactions concentration but do not want to 'lock out' students currently in the program from taking the new concentration. As a result we are hoping to add language permitting students who have taken IAT-235 prior to the introduction of the new course to have the course count as a pre-requisite in lieu of IAT-238. Once the new course is offered students would be expected to take IAT-238 to access the upper-division courses in the concentration.

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MEMORANDUM

ATTENTION SCUS

DATE May 8, 2024

FROM Jill Sutherland, Director
University Curriculum & Institutional Liaison

PAGES 1

RE: Approved WQB Designations (new)

Throughout March and April 2024 the SCUS certification sub-committees reviewed and approved the below courses for new Writing (W), Quantitative (Q), and Breadth (B) designations, effective Spring 2025. These courses are to be reviewed again in 5-years.

MOTION: That SCUS review and approve the following WQB designations under delegated authority, effective Spring 2025.

Breadth-Humanities Approvals

- GEOG 161 (also B-Soc) – Urban Change: An Introduction to Dynamic Places

Breadth-Social Science Approvals

- GEOG 161 (also B-Hum) – Urban Change: An Introduction to Dynamic Places

Sub-Committee Members
Writing: Erin Barley (FSCI), Leanne Barlow (BUS), Tara Holland (FENV)
Quantitative: Justin Grey (FSCI), Martin Santamaria (FASS), Rina Zazkis (EDUC)
B-HUM: David Coley (FASS), Arne Eigenfeldt (FCAT), Emily O'Brien (FASS)
B-SCI: Helen Bailey (FAS), Sarah Johnson (FSCI), Rochelle Tucker (HSCI)
B-SOC: Milena Droumeva (FCAT), Tiffany Muller Mrydahl (FASS), Dennis Sandgathe (FENV)

SFU SENATE COMMITTEE ON UNDERGRADUATE STUDIES

COURSE MODIFICATION FORM

COURSE SUBJECT MATH **NUMBER** 152 **TITLE** Calculus II

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

Course number	☐	Units	☐	Prerequisite	☒
Title	☐	Description	☐	Equivalent Statement	☒

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

Prerequisite: MATH 150 or 151 or 155, with a minimum grade of C-; or MATH 154 or 157, with a grade of at least B. Students with credit for MATH ~~155 or~~ 158 or 251 may not take this course for further credit.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2025

RATIONALE (must be included)

Since MATH 155 is more life-science focused, we determined it is not equivalent to MATH 152 and instead could serve as another possible pre-requisite.

COURSE SUBJECT	MATH	NUMBER	155	TITLE	Mathematics for the Life Sciences II

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

Course number	☐	Units	☐	Prerequisite	☐
Title	☐	Description	☒	Equivalent Statement	☐

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

Designed for students specializing in the life sciences. Topics include: vectors and matrices, partial derivatives, multi-dimensional integrals, systems of differential equations, compartment models, graphs and networks, and their applications to the life sciences; mathematical models of multi-component biological processes and their implementation and analysis using software. Students planning to take MATH 251 are recommended to consider MATH 152 as the prerequisite pathway. See an advisor to determine what may be best for you.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2025

RATIONALE (must be included)

We want to ensure that students choose to take the correct first year math courses if they intend to take MATH 251.

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

COURSE MODIFICATION FORM

COURSE SUBJECT MATH **NUMBER** 251 **TITLE** Calculus III

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).

Prerequisite: MATH 152 with a minimum grade of C-; ~~or MATH 155~~ or MATH 158 with a grade of at least B. Also, for students in the life sciences, MATH 154 with a minimum grade of C- and MATH 155 with a minimum grade of A-.

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

Spring 2025

RATIONALE (must be included)

Since MATH 155 has more specialized material for the life sciences, we have found it is not a comprehensive preparation for MATH 251. Therefore, to ensure that students succeed we have changed the minimum pre-requisite grade for life science students to an A-.

SENATE COMMITTEE ON UNDERGRADUATE STUDIES

COURSE MODIFICATION FORM

COURSE SUBJECT	MATH	NUMBER	469	TITLE	Topics in Graphs and Trees in Biomathematics

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).

Prerequisite: ~~MACM 201 with a minimum grade of C- and at least 60 units.~~ One of MATH 343, MATH 345, MATH 360, with a minimum grade of C-. Strongly Recommended: Experience with a computing platform such as R, MATLAB, or Python.

EFFECTIVE TERM AND YEAR FOR CHANGES

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

Spring 2025

RATIONALE (must be included)

New Syllabus requires introductory experience in enumerative methods (MATH 343/MATH 345) or biomathematics (MATH 360) at the 300-level.