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MEMORANDUM

ATTENTION	Senate	**DATE**	June 7, 2024
FROM	Peter Hall, Chair Senate Committee on Undergradua Studies	**PAGES**	1/2
RE:	Program Changes		

For information:

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

a. Beedie School of Business*(SCUS 24-62, effective Summer 2025)*

(i) Upper division requirement changes to the:
- Business Major
- Business Honours

b. Faculty of Science*(SCUS 24-64)*

1. Department of Mathematics

(i) Upper division requirement changes to the:
- Applied Mathematics Major
- Applied Mathematics Honours

(ii) Requirement changes to the concentrations for the Mathematics Honours

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

PROGRAM MODIFICATION TEMPLATE

Name of Program or Name of Faculty Beedie School of Business
Rationale for change: A generous $1.5M donation to the Merrill Family Global Campus Experience Fund will help BBA students develop a global perspective through participation in group study abroad experiences. This annual series of reoccurring, short-term, group-based study abroad experiences will be led by SFU Beedie Instructors, featuring SFU BUS courses, and hosted/supported by international academic partner institutions. Currently there is a grouping of upper division courses in the BsB that make up a global perspective requirement for all students in the BBA. To recognize international learning opportunities such as a formal international exchange, or a Merrill Family Global Campus Experience, that receive credit that may not be recognized in this course group BBA program requirement, this calendar language change is proposed.
Effective term and year: Summer 2025
The following program(s) will be affected by these changes: Business Major Business Honours

Calendar Change: "to" and "from" sections are not required. All deletions should be crossed out as follows: ~~sample.~~ All additions should be marked by a **bold.**

CORE COURSES (...) and one of***** BUS 346 - Global Business Environment (3) BUS 410 - Financial Institutions (3) BUS 411 - Fixed Income Security Analysis and Valuation (3) BUS 417 - Equity Security Analysis (3) BUS 418 - International Financial Management (3)

BUS 430 - Cross-Cultural Management (3)
BUS 431 - Business with East Asian Countries (3)
BUS 432 - International Human Resource Management (3)
BUS 434 - Foreign Market Entry (3)
BUS 435 - Management of International Firms (3)
BUS 447 - Global Marketing Management (3)

***any one of these courses may be replaced with a minimum 3 upper division business units completed through a SFU Formal International Exchange Program, SFU Beedie led Field School Program, or SFU Beedie Global Campus Experience. Students are required to consult with a Beedie School of Business Academic Advisor for further information.**

(...)

SFU SENATE COMMITTEE ON UNDERGRADUATE STUDIES

PROGRAM MODIFICATION TEMPLATE

Name of Program or Name of Faculty Applied Mathematics Major
Rationale for change: Inclusion of new courses to the degree program. (Note: CMPT 476 is equivalent to proposed MACM 476.)
Effective term and year: Spring 2025
The following program(s) will be affected by these changes: Applied Mathematics Major

Calendar Change: All deletions should be crossed out as follows: ~~sample.~~ All additions should be marked in **bold font.** Do not use **"**to" and "from" sections.

Upper Division Requirements

[…]

and at least two of

MACM 401 - Introduction to Computer Algebra (3)
MACM 409 - Numerical Linear Algebra: Algorithms, Implementation and Applications (3)
MACM 416 - Numerical Analysis II (3)
MACM 476 - Introduction to Quantum Algorithms (3) or CMPT 476 - Introduction to Quantum Algorithms (3)
MATH 308 - Linear Optimization (3)
MATH 309 - Continuous Optimization (3)
MATH 338 - Advanced Linear Algebra (3)
MATH 343 - Applied Discrete Mathematics (3)
MATH 345 - Introduction to Graph Theory (3)
MATH 348 - Introduction to Probabilistic Models (3)
MATH 360 - Introduction to Biomathematics (3)
MATH 419 - Linear Analysis (3)
MATH 425 - Real Analysis (3)
MATH 426 - Probability (3)
MATH 462 - Fluid Dynamics (3)
MATH 467 - Dynamical Systems (3)
MATH 468 - Topics in Biomathematics (3)

MATH 469 - Topics in Graphs and Trees in Biomathematics (3)
MATH 475 - Mathematical Topics in Data Science (3)
MATH 495 - Selected Topics in Applied Mathematics (3)
PHIL 345W - Philosophy of Mathematics (3)
PHYS 413 - Advanced Mechanics (3)
STAT 380 - Introduction to Stochastic Processes (3)

[…]

Name of Program or Name of Faculty Applied Mathematics Honours
Rationale for change: Inclusion of new courses to the degree program. (Note: CMPT 476 is equivalent to proposed MACM 476.)
Effective term and year: Spring 2025
The following program(s) will be affected by these changes: Applied Mathematics Honours

Calendar Change: All deletions should be crossed out as follows: ~~sample.~~ All additions should be marked in **bold font.** Do not use **"**to" and "from" sections.

Upper Division Requirements

[…]

and at least one of

MATH 308 - Linear Optimization (3)
MATH 309 - Continuous Optimization (3)
MATH 360 - Introduction to Biomathematics (3)

and at least two of

MACM 409 - Numerical Linear Algebra: Algorithms, Implementation and Applications (3)
MACM 416 - Numerical Analysis II (3)
MACM 476 - Introduction to Quantum Algorithms (3) or CMPT 476 - Introduction to Quantum Algorithms (3)
MATH 426 - Probability (3)
MATH 462 - Fluid Dynamics (3)
MATH 467 - Dynamical Systems (3)
MATH 468 - Topics in Biomathematics (3)
MATH 469 - Topics in Graphs and Trees in Biomathematics (3)
MATH 475 - Mathematical Topics in Data Science (3)
MATH 495 - Selected Topics in Applied Mathematics (3)

[…]

Name of Program or Name of Faculty Mathematics Honours
Rationale for change: Inclusion of new courses to the degree program. (Note: CMPT 476 is equivalent to proposed MACM 476.)
Effective term and year: Spring 2025
The following program(s) will be affected by these changes: Mathematics Honours

Calendar Change: All deletions should be crossed out as follows: ~~sample.~~ All additions should be marked in **bold font.** Do not use **"**to" and "from" sections.

Upper Division Requirements

[…]

ALGEBRA AND NUMBER THEORY CONCENTRATION

Students complete at least nine units from the following list of which at least three units must be at the 400 level.

MACM 401 - Introduction to Computer Algebra (3)
MACM 442 - Cryptography (3)
MACM 476 – Introduction to Quantum Algorithms (3) or CMPT 476 - Introduction to Quantum Algorithms (3)
MATH 338 - Advanced Linear Algebra (3)
MATH 342 - Elementary Number Theory (3)
MATH 440 - Galois Theory (3)
MATH 441 - Commutative Algebra and Algebraic Geometry (3)
MATH 443 - Combinatorial Theory (3)
MATH 447 - Coding Theory (3)

ANALYSIS AND OPTIMIZATION CONCENTRATION

Students complete at least nine units from the following list of which at least three units must be at the 400 level.

MACM 316 - Numerical Analysis I (3)
MATH 308 - Linear Optimization (3)
MATH 309 - Continuous Optimization (3)
MATH 314 - Introduction to Fourier Methods and Partial Differential Equations (3)
MATH 360 - Introduction to Biomathematics (3)
MATH 408 - Discrete Optimization (3)

[…]

DISCRETE MATHEMATICS CONCENTRATION

[…]

and at least nine units from the following list of which at least three units must be at the 400 level.

CMPT 307 - Data Structures and Algorithms (3)
CMPT 405 - Design and Analysis of Computing Algorithms (3)
MACM 442 - Cryptography (3)
MATH 343 - Applied Discrete Mathematics (3)
MATH 345 - Introduction to Graph Theory (3)
MATH 408 - Discrete Optimization (3)
MATH 443 - Combinatorial Theory (3)
MATH 445 - Graph Theory (3)
MATH 447 - Coding Theory (3)
MATH 448 - Network Flows (3)
MATH 469 - Topics in Graphs and Trees in Biomathematics (3)