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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		

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**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)**

- (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
  - Mathematics Major

- (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>.



<p><b>Name of Program or Name of Faculty</b></p> <p>Beedie School of Business</p>
<p><b>Rationale for change:</b></p> <p>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.</p> <p>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.</p>
<p><b>Effective term and year:</b></p> <p>Summer 2025</p>
<p><b>The following program(s) will be affected by these changes:</b></p> <p>Business Major Business Honours</p>

**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**.

<p><b>Upper Division Requirements</b></p> <p>In the last 60 units, students must complete a minimum of 36 upper division units in business courses, which must include the following:</p> <ul style="list-style-type: none"> <li>• all core courses (see Core Courses below)</li> <li>• an area of concentration (see Areas of Concentration below)</li> <li>• at least three 400 division BUS courses (excluding practicum courses and BUS 478). Any 400 division BUS course completed at SFU must be worth a minimum of three units to be used to fulfil this requirement. 400 division BUS courses worth zero units cannot be used to fulfil this requirement. These courses may be used toward the</li> </ul>
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requirements for the area(s) of concentration. At least one of these 400 division BUS courses must be completed at Simon Fraser University.

**CORE COURSES**

Students must complete all core courses with a minimum C- grade.

Students complete all of

BUS 300 - Professional Development - Planning (1) ^^

BUS 303 - Business, Society and Ethics (3)

BUS 312 - Introduction to Finance (3)

BUS 343 - Introduction to Marketing (3)

BUS 360W - Business Communication (4) ^

BUS 373 - Operations and Supply Chain Management (3)

BUS 393 - Commercial Law (3)

BUS 478 - Strategy (3) ^^

BUS 496 - Professional Development - Summit (1) ^^

and one of

BUS 374 - Organization Theory (3)

BUS 381 - Introduction to Human Resource Management (3)

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.**



^ to be completed before the student's 75th unit and at Simon Fraser University in accordance with the WQB requirements.

^^ to be completed at Simon Fraser University.



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

<p>Upper Division Requirements</p> <p>[...]</p> <p>and at least two of</p> <p>MACM 401 - Introduction to Computer Algebra (3)</p> <p>MACM 409 - Numerical Linear Algebra: Algorithms, Implementation and Applications (3)</p> <p>MACM 416 - Numerical Analysis II (3)</p> <p>MATH 308 - Linear Optimization (3)</p> <p>MATH 309 - Continuous Optimization (3)</p> <p>MATH 338 - Advanced Linear Algebra (3)</p> <p>MATH 343 - Applied Discrete Mathematics (3)</p> <p>MATH 345 - Introduction to Graph Theory (3)</p> <p>MATH 348 - Introduction to Probabilistic Models (3)</p> <p><b>MATH 360 - Introduction to Biomathematics (3)</b></p> <p>MATH 419 - Linear Analysis (3)</p> <p>MATH 425 - Real Analysis (3)</p> <p>MATH 426 - Probability (3)</p> <p>MATH 462 - Fluid Dynamics (3)</p> <p>MATH 467 - Dynamical Systems (3)</p> <p><b>MATH 468 - Topics in Biomathematics (3)</b></p>
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**MATH 469 - Topics in Graphs and Trees in Biomathematics (3)**

MATH 475 - Mathematical Topics in Data Science (3)

**MACM 476 - Introduction to Quantum Algorithms (3)**

**CMPT 476 - Introduction to Quantum Algorithms (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)

[...]

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

**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.

<p>Upper Division Requirements [...] and at least one of</p> <p>MATH 308 - Linear Optimization (3) MATH 309 - Continuous Optimization (3) <b>MATH 360 - Introduction to Biomathematics (3)</b></p> <p>and at least two of</p> <p>MACM 409 - Numerical Linear Algebra: Algorithms, Implementation and Applications (3) MACM 416 - Numerical Analysis II (3) MATH 426 - Probability (3) MATH 462 - Fluid Dynamics (3) MATH 467 - Dynamical Systems (3) <b>MATH 468 - Topics in Biomathematics (3)</b> <b>MATH 469 - Topics in Graphs and Trees in Biomathematics (3)</b> <b>MACM 476 - Introduction to Quantum Algorithms (3)</b> <b>CMPT 476 - Introduction to Quantum Algorithms (3)</b> MATH 475 - Mathematical Topics in Data Science (3) MATH 495 - Selected Topics in Applied Mathematics (3) [...]</p>
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<b>Name of Program or Name of Faculty</b> Mathematics Major
<b>Rationale for change:</b>  Update course name of MATH 360 to "Introduction to Biomathematics."
<b>Effective term and year:</b> Spring 2025
<b>The following program(s) will be affected by these changes:</b>  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.

Program Requirements  Upper Division Requirements  [...]  and one of  <u>MACM 316 - Numerical Analysis I (3)</u> <u>MATH 309 - Continuous Optimization (3)</u> <u>MATH 348 - Introduction to Probabilistic Models (3)</u> <del>MATH 360 - Modeling with Ordinary Differential Equations (3)</del> <b>MATH 360 - Introduction to Biomathematics (3)</b>  [...]
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<b>Name of Program or Name of Faculty</b> Mathematics Honours
<b>Rationale for change:</b> Inclusion of new courses to the degree program. (Note: CMPT 476 is equivalent to proposed MACM 476.)
<b>Effective term and year:</b> Spring 2025
<b>The following program(s) will be affected by these changes:</b>  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)
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)
<b>MACM 476 - Introduction to Quantum Algorithms (3)</b>
<b>CMPT 476 - Introduction to Quantum Algorithms (3)</b>

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)**