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**MEMORANDUM**

ATTENTION	Senate	DATE	September 15, 2023
FROM	Kevin Oldknow, Acting Chair Senate Committee on Undergraduate Studies	PAGES	1/2
RE:	Program Changes		

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**For information:**

Acting under delegated authority at its meeting of September 14, 2023 SCUS approved the following curriculum revisions effective Summer 2024.

**a. Faculty of Applied Sciences (SCUS 23-75)**1. School of Computing Science

- (i) Requirement changes to the Computing Science Dual Degree Program Major

2. School of Sustainable Energy Engineering

- (i) Requirement changes to the:
  - Sustainable Energy Engineering Major
  - Sustainable Energy Engineering Honours

**b. Beedie School of Business (SCUS 23-76)**

- (i) Requirement changes to the:
  - Corporate Environmental and Social Sustainability Certificate
  - Business Technology Management Certificate (*Fall 2024*)
- (ii) Admission and lower division requirement changes to the Business Minor (*Fall 2024*)
- (iii) Requirement changes to the (*Fall 2024*):
  - Business Honours
  - Business and Economics Joint Honours
  - Molecular Biology and Biochemistry and Business Administration Joint Honours

**c. Faculty of Science (SCUS 23-77)**

1. Department of Earth Sciences

(i) Requirement changes to the:

- Earth Sciences Honours
- Earth Sciences Major
- Earth Sciences Certificate

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>.



<b>Name of Program or Name of Faculty</b>  School of Computing Science, Faculty of Applied Sciences
<b>Rationale for change:</b>  These changes update the program to reflect the fact that GA 200 will no longer be offered, CMPT 210 replaces MACM 201 for the Computing Science major, as well as to provide more options for students in the SFU-ZJU Bachelor-Master program in Computing Science and Financial Technology.
<b>Effective term and year:</b> Summer 2024
<b>The following program(s) will be affected by these changes:</b>  Computing Science Dual Degree Program Major

**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**.

BSc/Master of Finance Option  Students complete all of *  BUS 232 - Data and Decisions I (4) CMPT 105W - Social Issues and Communication Strategies in Computing Science (3) CMPT 120 - Introduction to Computing Science and Programming I (3) CMPT 125 - Introduction to Computing Science and Programming II (3) CMPT 225 - Data Structures and Programming (3) CMPT 276 - Introduction to Software Engineering (3) CMPT 295 - Introduction to Computer Systems (3) ECON 105 - Principles of Macroeconomics (4) MACM 101 - Discrete Mathematics I (3) <b>CMPT 210 - Probability and Computing (3)</b> MATH 151 - Calculus I (3) MATH 152 - Calculus II (3) <del>MATH 232 - Applied Linear Algebra (3)</del>
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~~and one of~~

~~CMPT 210 - Probability and Computing (3)~~

~~MACM 201 - Discrete Mathematics II (3)~~

**and one of \***

**MATH 232 - Applied Linear Algebra (3)**

**MATH 240 - Algebra I: Linear Algebra (3)**

and one of \*\*

**GA 200 - Introduction to Chinese Civilization (3)**

HIST 255 - China since 1800 (3)

**SA 275 - China in Transition (SA) (4)**

\*Course substitutions consistent with those of the computing science major program are acceptable.

**\*\* Students may apply to substitute any non-Chinese language course on the elective list of the Certificate in Chinese Studies, provided that the topic is approved by that program as China-related.**



<b>Name of Program or Name of Faculty</b> School of Sustainable Energy Engineering, Faculty of Applied Sciences
<b>Rationale for change:</b>  GEOG primarily offers GEOG 362W delivered by a regular faculty member, and has GEOG 362 (non W) as a backup in case taught by a sessional instructor. The requested changes make sure that both options would be covered, even though the regular offering is 362W.
<b>Effective term and year:</b> Summer 2024
<b>The following program(s) will be affected by these changes:</b>  Sustainable Energy Engineering Major Sustainable Energy Engineering 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**.

<u>Program Requirements</u> ...  <b>Interdisciplinary Elective Courses</b>  To contribute to the program's focus on interdisciplinary knowledge, students must also take one of the following interdisciplinary electives  <u>GEOG 324 - Geography of Transportation (4)</u> <u><del>GEOG 362</del> <b>362W (or 362)</b> - Gentrification and Urban Change (4)</u>  ...
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<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>CMNS 349 Environment, Media and Communication will be withdrawn from being offered as of Fall 2023. CMNS 311 – Topics in Communication and Social Justice has been deemed a suitable substitute for the certificate.</p>
<p><b>Effective term and year:</b></p> <p>Summer 2024</p>
<p><b>The following program(s) will be affected by these changes:</b></p> <ul style="list-style-type: none"> <li>• Corporate Environmental and Social Sustainability Certificate</li> </ul>

**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>Corporate Environmental and Social Sustainability</b></p> <p>CERTIFICATE</p> <p>Core Courses</p> <p>[...]</p> <p>and a minimum of two of the following non-Business elective courses**</p> <p>ARCH 386 - Archaeological Resource Management (3)</p> <p><del>CMNS 349 – Environment, Media and Communication (4)</del></p> <p><b>CMNS 311 – Topics in Communication and Social Justice (4)</b></p> <p>ENSC 412 - Technologies, Cultures and a Sustainable World (3) or SD 412 - Technologies, Cultures and a Sustainable World (3)</p> <p>GEOG 221 - Economic Worlds (3)</p> <p>GEOG 321 - Geographies of Global Capitalism (4)</p> <p>GEOG 325 - Geographies of Consumption (4)</p> <p>PHYS 346 - Energy and the Environment (3)</p> <p>POL 452W - Energy Policy (4)</p> <p>REM 350 - Energy Management for a Sustainable Climate and Society (4)</p>
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REM 412 - Environmental Modeling (4)  
SD 281 - Introduction to Sustainability (3)  
SD 381 - Building Sustainable Communities (4)  
SD 401 - Sustainable Development Studio (4)  
[...]



<b>Name of Program or Name of Faculty</b>  Beedie School of Business
<b>Rationale for change:</b>  BUS 465 is a required course for the MIS specialization of the BTM certificate, however, there are no current plans to offer this course in the future (at least for the time being). This presents a barrier for students wishing to complete the BTM certificate. The course is still deemed valuable, as such, BUS 465 is being moved to the list of course options for the MIS specialization.
<b>Effective term and year:</b>  Fall 2024
<b>The following program(s) will be affected by these changes:</b> <ul style="list-style-type: none"><li>• Business Technology Management Certificate</li></ul>

**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**.

<b>Business Technology Management</b> CERTIFICATE
<b>Limitations</b>  Units applied to one certificate may be applied also to major or minor programs of a bachelor's degree under the normal regulations governing those programs but may not be applied to another Simon Fraser University certificate or diploma.
<b>Grade Requirements</b>  In addition to normal university grade point average requirements, the Beedie School of Business requires a minimum 2.30 overall SFU Business course grade point average for entry into all 300 and 400 division business courses.



For a course to be accepted as fulfilling a prerequisite, or for a lower division requirement, or for a core course to be accepted in a student's program in business, a student must have obtained a minimum grade of C- (C minus).

A minimum grade point average of 2.00 calculated on all courses applied towards the certificate is required for graduation from a business certificate.

## Program Requirements

Students complete a minimum of ~~26 to 28 units, including 5~~ **five** core courses, one of the TWO specializations, and an experiential component, as **indicated** below. ~~The number of units will differ based on the BTM specialization selected by student (BTM-MIS=28, BTM-Financial Services=26)~~

### Core Courses

Students must complete all of

- BUS 361 - Project Management (3)
- BUS 362 - Business Process Analysis (4)
- BUS 462 - Business Analytics (3)
- BUS 464 - Business Data Management (3)
- BUS 468 - Managing Information Technology for Business Value (3)

Students must complete the courses associated with one of the two following specializations for the certificate:

### Management Information Systems Specialization

~~BUS 465 - Business Systems Development (3)~~

~~and a~~ Any two of

- BUS 440 - Simulation in Management Decision-making (4)
- BUS 465 - Business Systems Development (3)**
- BUS 466 - Web-Enabled Business (3)
- BUS 486 - Leadership (3)
- BUS 490 - Selected Topics in Business Administration (1) \*
- BUS 491 - Selected Topics in Business Administration (2) \*
- BUS 492 - Selected Topics in Business Administration (3) \*
- BUS 493 - Selected Topics in Business Administration (3) \*
- BUS 494 - Selected Topics in Business Administration (3) \*
- BUS 495 - Selected Topics in Business Administration (4) \*

and one of

CMPT 120 - Introduction to Computing Science and Programming I (3)

CMPT 130 - Introduction to Computer Programming I (3)

CMPT 272 - Web I - Client-side Development (3)

IAT 201 - Human-Computer Interaction and Cognition (3)

\*When offered as a selected topics course in management information systems.

## Financial Services Specialization

All of

BUS 410 - Financial Institutions (3)

BUS 413 - Corporate Finance (3)

BUS 418 - International Financial Management (3)

Both the financial services and management information systems specializations also require the completion of one of the following ~~approved~~-experiential or service learning components **approved by the Area Coordinator of Management Information Systems:**

- Experience in a volunteer, internship, research assistantship or other non co-op work role within a student group, social enterprise, charitable organization, or non-profit organization related to business and technology.\* Prior approval is required before the commencement of this experience by submitting a detailed outline describing activities that will be undertaken. Upon completion of these activities, students must submit a detailed outline and description of activities.
- Successful completion of at least one Co-operative Education (Co-op) work term with a focus related to business and technology.\* A description (written by either the student or the organization and signed and validated by the employer/supervisor) of the organization and the student's role and activities with that organization must be submitted.

\*Experience which will be considered relevant includes those that require a significant amount of work activities such as: (i) planning, managing and/or leading a business technology project; (ii) analyzing a business need and presenting a technology based solution or plan to address need; (iii) designing and presenting a technology enabled solution to a business problem; (iv) analyzing a business process and developing a plan to implement a technology enabled solution; and/or (v) developing a technology based solution to a business problem.



**Name of Program or Name of Faculty**

Beedie School of Business

**Rationale for change:**

The program modifications outlined in this document are intended to incorporate courses into the Business Minor program that align with the calling of the Beedie School of Business; provide student flexibility; improve course sequencing; and improve student access to the Business Minor program. Changes are proposed for both the program requirements and admissions to the Business Minor program.

Two new courses, BUS 240 and BUS 275, were introduced to the Business Major program in Fall 2022 to align the program with the innovation and social responsibility pillars of the Beedie School of Business. The introduction of these courses provides an opportunity for them to become a part of the program requirements for the Business Minor. However, it is recognized that 21-23 lower division units are already required to complete the Business Minor program. Adding these two courses as required courses would increase the lower division requirements to 27-29 units, and 43-45 total units for completing the Business Minor program. To allow students to take these courses and count them towards their Business Minor program, while maintaining the same number of units required to complete the Business Minor program, modifications to the lower division requirements are proposed. These changes improve course sequencing by requiring the business foundations course, BUS 200, to be completed prior to admission to the Business Minor program and provides students with choices of lower division electives so they can choose to take BUS 240, BUS 275 or a personal finance course, BUS 221, as part of their lower division requirements.

For admissions to the Business Minor program, students are currently evaluated on a five-course model with a competitive GPA used to admit students. This model can require students to repeat courses to improve their Business Minor GPA. The time and resources necessary to process admissions means that students are not necessarily able to register for classes in time for the semester in which they are admitted to the Business Minor program. Both these issues can delay degree progression. The proposed modification to admissions will require students to have a minimum CGPA 2.30 at the time of their application, with at least five of the seven lower division courses completed. This change is intended to reduce student uncertainty, reduce the need for course repeats, improve degree progression, and streamline admissions processing.

**Effective term and year:**

Fall 2024

**The following program(s) will be affected by these changes:**

- Minor Admission Requirements - <https://www.sfu.ca/students/calendar/faculties-research/faculty-business/admission-requirements.html>
- Business Minor

**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**.

## Admission Requirements

[...]

### Minor Admission Requirements

To be considered for admission to the minor, students must have completed the five lower division required courses with a minimum C- grade. **Cumulative grade point average will be used to determine admission** ~~For admission to the minor program within the Beedie School of Business, students will be selected competitively based on the grades achieved in the five lower division required courses\*. Of the required courses, a maximum of two of the five courses may be repeated one time each for admission;~~ ~~s~~ Students should review course equivalencies as stated in the SFU Calendar. ~~Note that a~~

A minimum overall SFU Business **cumulative** grade point average of ~~2.00~~ **2.30** is also required for admission to the business minor program.

~~\*The five lower division courses are as follows:~~

#### Students complete both

#### **BUS 200 - Business Fundamentals (3)**

~~BUS 237-3 Introduction to Business Technology Management~~

~~BUS 251 - 3- Financial Accounting I (3)~~

~~BUS 272-3 Behaviour in Organizations~~

and one of:

ECON 103-4 - Principles of Microeconomics (4)

ECON 113-3 - Introduction to Microeconomics (3)

and two of\*

**BUS 221 - Personal Finance (3)**

**BUS 233 - Introduction to Business Law and Ethics (3)**

**BUS 237 - Introduction to Business Technology Management (3)**

**BUS 240 - Introduction to Innovation (3)**  
**BUS 272 - Behaviour in Organizations (3)**  
**BUS 275 - Business in a Sustainable Society (3)**

**\*one of these courses may be replaced by one of the courses listed below or with any three unspecified transfer units in English or in ENGL-Writing at the 100- or 200-level.**

~~and one of\*~~

**BUS 216 - Introduction to Essentials of Business Communications (3)**

ECON 105-4 - Principles of Macroeconomics (4)  
 ECON 115-3 - Introduction to Macroeconomics (3)  
 ENGL 111W-3 - Literary Classics in English (3)  
 ENGL 112W-3 - Literature Now (3)  
 ENGL 113W-3 - Literature and Performance (3)  
 ENGL 114W-3 - Language and Purpose (3)  
 ENGL 115W-3 - Literature and Culture (3)  
 ENGL 199W-3 - Writing to Persuade (3)  
 PHIL 100W-3 - Knowledge and Reality (3)  
 PHIL 105-3 - Critical Thinking (3)  
 PHIL 110-3 - Introduction to Logic and Reasoning (3)  
 PHIL 120W-3 - Moral and Legal Problems (3)  
 PHIL 150-3 - Great Works in the History of Philosophy (3)  
 WL 101W-3 - Writing in World Literature (3)  
 WL 103W-3 - Early World Literatures (3)  
 WL 104W-3 - Modern World Literatures (3)  
 WL 105W-3 - World Literature Lab (3)

~~\*any one of these courses may be replaced by any three unspecified transfer units in English or in ENGL-Writing at the 100- or 200-level.~~

**APPLICATION PROCEDURES**

Applicants should apply to the faculty **after they have completed the** ~~during the term in which the five required lower division courses are completed.~~ Students not accepted upon initial application may reapply. Unsuccessful applicants are permitted to appeal.

**APPLICATION DEADLINES** <sup>11</sup><sub>SEP</sub>

Visit ~~<https://beedie.sfu.ca/programs/undergraduate/bba-major/how-to-apply>~~ **<https://beedie.sfu.ca/programs/undergraduate/business-minor/how-to-apply/>** for applications deadlines.

[...]

## Business Minor

### Admission Requirements

A specific number of seats will be allocated each year to the Business Minor program. Please refer to the admission requirements section.

### Grade Requirements

In addition to normal university grade point average requirements, the Beedie School of Business requires a minimum 2.00 overall SFU Business course grade point average for entry into all 300 and 400 division business minor courses.

For a course to be accepted as fulfilling a prerequisite, or for a lower division requirement, or for a core course to be accepted in a student's program in business, a student must have obtained a minimum grade of C- (C minus).

### Letters of Permission

The Beedie School of Business does not normally approve letters of permission for students already enrolled at Simon Fraser University.

### Program Requirements

#### Lower Division Requirements

Students complete ~~all of~~ **both**

BUS 200 - Business Fundamentals (3)

~~BUS 233 - Introduction to Business Law and Ethics (3)~~

~~BUS 237 - Introduction to Business Technology Management (3)~~

BUS 251 - Financial Accounting I (3)

~~BUS 272 - Behaviour in Organizations (3)~~

and one of

ECON 103 - Principles of Microeconomics (4)

ECON 113 - Introduction to Microeconomics (3)

**and four of\***



**BUS 221 - Personal Finance (3)**  
**BUS 233 - Introduction to Business Law and Ethics (3)**  
**BUS 237 - Introduction to Business Technology Management (3)**  
**BUS 240 - Introduction to Innovation (3)**  
**BUS 272 - Behaviour in Organizations (3)**  
**BUS 275 - Business in a Sustainable Society (3)**

**\*one of these courses may be replaced by one of the courses listed below or with any three unspecified transfer units in English or in ENGL-Writing at the 100- or 200-level.**

~~and one of\*~~

**BUS 216 - Introduction to Essentials of Business Communications (3)**

ECON 105 - Principles of Macroeconomics (4)  
ECON 115 - Introduction to Macroeconomics (3)  
ENGL 111W - Literary Classics in English (3)  
ENGL 112W - Literature Now (3)  
ENGL 113W - Literature and Performance (3)  
ENGL 114W - Language and Purpose (3)  
ENGL 115W - Literature and Culture (3)  
ENGL 199W - Writing to Persuade (3)  
PHIL 100W - Knowledge and Reality (3)  
PHIL 105 - Critical Thinking (3)  
PHIL 110 - Introduction to Logic and Reasoning (3)  
PHIL 120W - Moral and Legal Problems (3)  
PHIL 150 - Great Works in the History of Philosophy (3)  
WL 101W - Writing in World Literature (3)  
WL 103W - Early World Literatures (3)  
WL 104W - Modern World Literatures (3)  
WL 105W - World Literature Lab (3)

~~\*any one of these courses may be replaced by any three unspecified transfer units in English or in ENGL Writing at the 100- or 200 level.~~

## Upper Division Requirements

### Core Courses

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

At least 16 upper division BUS units are required including all of the following core courses



BUS 311 - Introduction to Managerial Accounting and Financial Management (4)  
BUS 340 - International Business Strategy (4)  
BUS 341 - Fundamentals of Marketing (4)  
BUS 401 - Developing Organizational Opportunities (4) \*\*

\*\* Must be completed at SFU.





<b>Name of Program or Name of Faculty</b>  Beedie School of Business
<b>Rationale for change:</b>  The proposed changes to the BBA Honours program highlight academic achievement and provide students an opportunity to delve deeper into their business studies. Students will be required to specialize further by requiring a minimum of 6 additional units in 400 level business courses specifically within a declared concentration area(s).  Benefits to the changes: reduction of units from 12 to 6 which would support SFU's shift in honours requirements away from 132 units and assist student progression; increase GPA requirements to 3.33 would ensure the program highlights academic achievement and ensures enrollment space is manageable within upper division business courses; and requiring the additional 6 units to be in 400-level BUS concentration courses.
<b>Effective term and year:</b>  Fall 2024
<b>The following program(s) will be affected by these changes:</b>  Business Honours Business and Economics Joint Honours Molecular Biology and Biochemistry and Business Administration Joint 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**.

<h1>Business Honours</h1> <p>BACHELOR OF BUSINESS ADMINISTRATION</p> <p><del>Students admitted to the Beedie School of Business for the Fall 2017 term onwards must complete the Business Foundation Program within their first year.</del></p>
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Students will complete mainly non-business courses during the first 60 units of the program, completing three categories of courses. The first category consists of lower division requirements that are mainly foundation courses, which prepares students for more advanced upper division business courses. The second category consists of courses completed to meet university requirements in writing, quantitative and breadth, the Beedie School of Business non-business elective requirement, as well as a minimum of 36 units, outside of the Beedie School of Business\*. The first two categories should be completed during the first 60 units.

In the third category, students choose courses that are based on intellectual interest or to achieve academic goals. The last ~~72-66~~ units of the degree program consists of the completion of the core upper division business courses, at least one area of concentration, lower and upper division electives, and an additional ~~12-6~~ units of 400 division BUS courses **within a declared concentration area(s)**. In total, students will complete a minimum of ~~126~~ ~~132~~ units, which must include at least 60 units of upper division coursework.

Students are also required to complete the Business Career Passport program, which consists of six workshops to prepare them for their careers.

~~\*Courses not labelled as BUS or BUEC that are completed as part of the lower division requirements may be used toward the 36 units outside business.~~

## Admission Requirements

Students may apply for entry to the honours program after completion of all required lower division courses with a C- minimum, 15 upper division business units, and satisfaction of all minimum Grade Requirements for the program.

## Grade Requirements

For entry and continuance, the following grade point averages will be used:

- minimum ~~3.00~~ **3.33** cumulative grade point average
- minimum ~~3.00~~ **3.33** cumulative upper division grade point average
- minimum ~~3.00~~ **3.33** cumulative grade point average on all BUS courses
- minimum ~~3.00~~ **3.33** grade point average for upper division BUS courses

For graduation, students must also meet the required minimum GPAs in accordance with the University and the Beedie School of Business.

[...]

## Upper Division Requirements

~~In the last 72 units, honours students must complete a minimum of 48 upper division units in business courses.~~ **Honours students require the completion of a minimum of 60 upper division units including a minimum of 48 units in business administration, which must include the following:**

- all core courses
- an area of concentration
- 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 requirements for an area of concentration. At least one of these 400 division BUS courses must be completed at Simon Fraser University.
- additional ~~12~~ **6** units of 400 division BUS coursework **in a declared concentration area(s).**

The honours program requires **6 additional** ~~12~~ units of 400 division courses in BUS **within a declared concentration area(s)** ~~or in other faculties approved in advance by the undergraduate program's executive director, or predetermined by the department above~~ and beyond the 120 unit requirement for the major. The **6** ~~12~~ units are in addition to the requirements for the major.

**The additional 6 upper division concentration units may be granted from an alternative SFU program outside of a concentration area upon prior approval by the Undergraduate Academic Director when all of these conditions are met:**

- **consultation with Beedie Academic Advising;**
- **enrolled or completed a learning experience at SFU that further develops understanding of business program-level learning goals; and**
- **the student, upon completion, obtains a minimum 6 additional units of 400 division courses from completing this alternative experience.**

[...]

## Business and Economics Joint Honours

BACHELOR OF ARTS OR BACHELOR OF BUSINESS ADMINISTRATION

[...]

Admission Requirements - Beedie School of Business

Students who wish to pursue the joint honours program must first be admitted to the joint major program. Upon completion of nine upper division business units at SFU, students may apply for admission to the joint honours program. For entry and continuance, please see the grade requirements below.

[...]

## Grade Requirements

For entry, continuance and graduation with a bachelor of business administration with a business and economics joint honours, the following grade point averages will be used:

- minimum ~~3.00~~ **3.33** cumulative grade point average
- minimum ~~3.00~~ **3.33** cumulative upper division grade point average
- minimum ~~3.00~~ **3.33** grade point average for upper division BUS courses
- minimum ~~3.00~~ **3.33** cumulative grade point average on all BUS courses

For graduation, students must also meet the required minimum GPAs in accordance with the University and both the Beedie School of Business and Department of Economics.

[...]

## Program Requirements

Students complete a minimum of ~~132~~ **126** units, including a minimum of 60 upper division units.

[...]

### Business Upper Division Requirements

#### *CORE COURSES*

Students complete all of

- ~~BUS 303 - Business, Society and Ethics (3)~~
- BUS 312 - Introduction to Finance (4)
- BUS 343 - Introduction to Marketing (3)
- BUS 393 - Commercial Law (3)
- BUS 478 - Strategy (3) \*

and one of

- BUS 374 - Organization Theory (3)
- BUS 381 - Introduction to Human Resource Management (3)

BUS 360W is recommended but not required. BUS 360W will be waived as a prerequisite for 400 division business courses for those in approved business joint programs, provided that an alternative approved upper division W course is in progress, or has been completed. Students should consult with a Beedie School of Business Academic Advisor for further information on obtaining a waiver.

BUS 360W must be completed at Simon Fraser University in accordance with the WQB requirements.

^ Must be completed at Simon Fraser University.

**BUSINESS 400 DIVISION REQUIREMENT**

Students must complete at least ~~three~~ **two** 400 division BUS courses, each worth a minimum of three units (excluding BUS 478 and practicum courses). ~~These courses may be within the area of concentration chosen above.~~ At least one 400 division courses must be completed at Simon Fraser University. **The business honours program requires 6 additional units of 400 division courses in BUS within a declared concentration area(s).**

**BUSINESS CONCENTRATION**

Students also complete the requirements for at least one area of concentration listed under the business major program.

[...]

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## Molecular Biology and Biochemistry and Business Administration Joint Honours

[...]

Beedie School of Business Admission Requirements

Students who wish to pursue the joint honours program must first be admitted to the joint major program. Upon completion of nine upper division business units at SFU, students may apply for admission to the joint honours program.

## Grade Requirements

For entry and continuance, the following grade point averages will be used for the Beedie School of Business:

- minimum ~~3.00~~ **3.33** cumulative grade point average
- minimum ~~3.00~~ **3.33** cumulative upper division grade point average
- minimum ~~3.00~~ **3.33** grade point average for upper division BUS courses
- minimum ~~3.00~~ **3.33** cumulative grade point average on all BUS courses

For graduation, students must also meet the required minimum GPAs in accordance with the University and both the Beedie School of Business and Molecular Biology and Biochemistry. ~~This includes achieving a minimum cumulative grade point average of 3.0, and an upper division grade point average of 3.0.~~

[...]

### *BUSINESS 400 DIVISION REQUIREMENT*

Students must complete at least two **additional** 400 division BUS courses, each worth a minimum of three units (excluding BUS 478 and practicum courses).

[...]

## Calendar Entry Change

Name of Program or Name of Faculty: **EASC BSc Honours Program**

Rationale for Change: These changes address a legacy error in the program and makes the program requirements consistent with prerequisite conditions of current EASC courses.

There is no longer a PHYS 130 to go along with PHYS 101 and 102. Instead, all students take the same two Physics lab courses (PHYS 132 and PHYS 133) *or* PHYS 141 if they are taking studio physics. The requirement for students to achieve a B grade in PHYS 101 and 102 is not consistent with any of the EASC courses listing Physics courses as prerequisites. All courses indicate that students must achieve a C- or better. These changes will eliminate inconsistencies in the calendar entry and provide clarity for students in our program.

Effective term and year: Summer 2024

The following program(s) will be affected by these changes:

Earth Sciences 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**.

### Lower Division Requirements

[...]

all of

PHYS 101 - Physics for the Life Sciences I (3) **\*\***

PHYS 102 - Physics for the Life Sciences II (3) **\*\***

PHYS 132 - Physics Laboratory I (1) **\*\***

PHYS 133 - Physics Laboratory II (1) **\*\***

or all of

PHYS 120 - Mechanics and Modern Physics (3)

PHYS 121 - Optics, Electricity and Magnetism (3)

PHYS 132 - Physics Laboratory I (1)

PHYS 133 - Physics Laboratory II (1)

or all of

PHYS 125 - Mechanics and Special Relativity (3)

PHYS 126 - Electricity, Magnetism and Light (3)

PHYS 132 - Physics Laboratory I (1)

PHYS 133 - Physics Laboratory II (1)



or both of

PHYS 140 - Studio Physics - Mechanics and Modern Physics (4)

PHYS 141 - Studio Physics - Optics, Electricity and Magnetism (4)

~~\*\* Students are encouraged to complete the standard stream (PHYS 120, 121, 132, 133) or the advanced stream (PHYS 125, 126, 132, 133). Students may also choose to complete the studio physics stream (PHYS 140, 141). Students who complete the life sciences stream (PHYS 101, 102, 130) (which has a corequisite of BISC 100 or 101 or 102) with a minimum B grade should have sufficient preparation for the major program.~~





## Calendar Entry Change

Name of Program or Name of Faculty: **EASC BSc Major Program**

Rationale for Change: These changes address a legacy error in the program and makes the program requirements consistent with prerequisite conditions of current EASC courses.

There is no longer a PHYS 130 to go along with PHYS 101 and 102. Instead, all students take the same two Physics lab courses (PHYS 132 and PHYS 133) *or* PHYS 141 if they are taking studio physics. The requirement for students to achieve a B grade in PHYS 101 and 102 is not consistent with any of the EASC courses listing Physics courses as prerequisites. All courses indicate that students must achieve a C- or better. These changes will eliminate inconsistencies in the calendar entry and provide clarity for students in our program.

Effective term and year: Summer 2024

The following program(s) will be affected by these changes:

Earth Sciences Major

**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**.

### Lower Division Requirements

[...]

all of

PHYS 101 - Physics for the Life Sciences I (3) \*\*

PHYS 102 - Physics for the Life Sciences II (3) \*\*

PHYS 132 - Physics Laboratory I (1) \*\*

PHYS 133 - Physics Laboratory II (1) \*\*

or all of

PHYS 120 - Mechanics and Modern Physics (3)

PHYS 121 - Optics, Electricity and Magnetism (3)

PHYS 132 - Physics Laboratory I (1)

PHYS 133 - Physics Laboratory II (1)

or all of

PHYS 125 - Mechanics and Special Relativity (3)

PHYS 126 - Electricity, Magnetism and Light (3)

PHYS 132 - Physics Laboratory I (1)

PHYS 133 - Physics Laboratory II (1)



or both of

PHYS 140 - Studio Physics - Mechanics and Modern Physics (4)

PHYS 141 - Studio Physics - Optics, Electricity and Magnetism (4)

~~\*\* Students are encouraged to complete the standard stream (PHYS 120, 121, 132, 133) or the advanced stream (PHYS 125, 126, 132, 133). Students may also choose to complete the studio physics stream (PHYS 140, 141). Students who complete the life sciences stream (PHYS 101, 102, 130) (which has a corequisite of BISC 100 or 101 or 102) with a minimum B grade should have sufficient preparation for the major program.~~



<p><b>Name of Program or Name of Faculty</b> Department of Earth Sciences</p>
<p><b>Rationale for change:</b> Students appear unaware of the merits of the certificate program and the scope of focus areas that reflect the various disciplines within Earth Sciences. These changes are expected to increase the uptake of the certificate program.  SCI 301 is being removed from the listing of courses, as it is not expected to be offered regularly.  Expansion of the text dealing with the minimum grade requirements provides better clarity for students.</p>
<p><b>Effective term and year:</b> Fall 2024</p>
<p><b>The following program(s) will be affected by these changes:</b> Certificate in Earth Sciences</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>Certificate</p> <p>This program provides <del>both part-time and full-time</del> <b>non-Earth Science major</b> students with the opportunity to understand the fundamentals of Earth Sciences without necessarily specializing in Earth Sciences.</p> <p>Minimum Grade Requirement</p> <p>Students enrolled in this certificate program must <del>have</del> <b>achieve</b> a grade of C- or better in all prerequisite and required courses. <b>Some of the courses have prerequisites not included in the certificate requirements. In addition, a program GPA of 2.0 must be obtained on the overall course work (CGPA) as well as on the upper division subset of that work (UDGPA) in the program area.</b></p> <p>Program Requirements</p> <p>Students <b>must</b> complete</p> <p>EASC 101 - Dynamic Earth (3)</p>
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and at least 21 units from

any 100, 200, 300 or 400 division EASC course

~~SCI 301—Science Communication: An Introduction (3)~~

**Students may select their elective courses to encompass a number of focus areas, including Geoscience Education, General Earth Science, Environmental Geoscience, Geology, or Paleontology. Students are invited to visit the department's website for a list of course offerings by focus areas or to contact an advisor.**