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MEMORANDUM

ATTENTION Senate
FROM Wade Parkhouse, Chair
RE: Senate Committee on Undergraduate Studies
Program Changes

DATE March 4, 2022

PAGES 1/4

For information:

Acting under delegated authority at its meeting of March 3, 2022 SCUS approved the following curriculum revision effective Fall 2022.

a. Faculty of Applied Sciences (SCUS 22-21)

1. School of Computing Science

- (i) Upper division requirement changes to the Computing Science Concentrations – Artificial Intelligence and Information Systems for the:
 - Computing Science Major
 - Computing Science Honours
 - Computing Science Second Degree Major
 - Computing Studies Certificate
 - Computing Science Minor
- (ii) Upper and lower division requirement changes to the Computing Science Dual Degree Program Major
- (iii) Internal transfer, upper and lower division requirement changes to the Geographic Information Science Major and Honours programs
- (iv) Upper and lower division requirement changes to the Computing Science and Linguistics Joint Major
- (v) Lower division requirement changes to the Molecular Biology and Biochemistry and Computing Science Joint Major and Joint Honours
- (vi) Lower division requirement changes to the Software Systems Major

b. Faculty of Arts and Social Sciences

1. Department of Economics (SCUS 22-11)

(i) Program changes to the Concentration in Economic Data Analysis for the:

- Economics Major
- Economics Honours
- Business and Economics Joint Major
- Political Science and Economics Joint Major
- Business and Economics Joint Honours

(ii) Program requirement changes to the:

- Economics Major
- Business and Economics Joint Major
- Political Science and Economics Joint Major
- Economics Minor
- Economics Extended Minor

2. School of Criminology (SCUS 22-22)

(i) Upper division requirement changes to the:

- Criminology Minor
- Criminology Extended Minor
- Police Studies Minor
- Police Studies Post Baccalaureate Diploma
- Certificate in Police Studies
- Legal Studies Minor
- Legal Studies Post Baccalaureate Diploma
- Legal Studies Certificate

3. Department of Economics

(i) Lower division requirement changes to the:

- Business and Economics Joint Major
- Economics Extended Minor
- Economics Major
- Political Science and Economics Joint Major

(ii) Admission and lower division requirement changes to the Economics Minor

4. Department of Indigenous Studies

(i) Requirement changes to the Indigenous Studies Research Certificate (***Spring 2023***)

5. School for International Studies

(i) Upper division requirement changes to the ***(effective Spring 2023)***:

- International Studies Certificate
- International Studies Major
- International Studies Minor
- International Studies Honours
- World Literature and International Studies Joint Major

(ii) Lower division requirement changes to the:

- International Studies Major
- International Studies Honours

6. Department of Philosophy

(i) Upper division requirement changes to the:

- Philosophy Major
- Philosophy Honours
- Business, Philosophy and the Law Joint Major
- Philosophy and Health Sciences Joint Major
- Philosophy and Humanities Joint Major
- Philosophy Minor
- Philosophy Double Minor
- Philosophy Extended Minor

c. Beedie School of Business (SCUS 22-23)

(i) Upper and lower division requirement changes to the:

- Business Honours
- Business Major
- Mechatronic Systems Engineering and Business Double Degree Major

(ii) Lower division requirement changes to the:

- Business and Communication Joint Major
- Business and Geography Joint Major
- Business and Psychology Joint Major
- Business, Philosophy and the Law Joint Major
- Information Systems in Business Administration and Computing Science Joint Major
- Interactive Arts and Technology and Business Joint Major BA or BBA
- Interactive Arts and Technology and Business Joint Major BSc
- Molecular Biology and Biochemistry and Business Administration Joint Major
- Sustainable Business Joint Major
- Molecular Biology and Biochemistry and Business Administration Joint Honours
- Business Minor
- Business Foundation Program

(iii) Admission requirement changes to the Bachelor of Business Administration

d. Faculty of Communication, Art and Technology (SCUS 22-24)

1. School of Communication

(i) Upper division requirement changes to the:

- Communication Honours
- Communication Major
- Communication Second Degree

e. Faculty of Environment (SCUS 22-25)

(i) Changes to description, upper and lower division requirement for the Sustainable Business Joint Major

f. Faculty of Science (SCUS 22-26)

1. Department of Biomedical Physiology and Kinesiology

(i) Admission requirement changes for the Occupational Ergonomics Certificate

2. Department of Statistics and Actuarial Sciences

(i) Lower division requirement changes to the Statistics Major and 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>.

Name of Program or Name of Faculty
School of Computing Science
Rationale for change:
CMPT 420 is a new course which will become available in the Artificial Intelligence concentration in the programs in The School.
CMPT 470 is being phased out. CMPT 372 will be taking its place.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes:
Computing Science Major Computing Science Honours Computing Science Second Degree Major Computing Studies Certificate Computing Science 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**.

(...)
ARTIFICIAL INTELLIGENCE
CMPT 310 - Artificial Intelligence Survey (3)
CMPT 340 - Biomedical Computing (3)
CMPT 411 - Knowledge Representation (3)
CMPT 412 - Computational Vision (3)
CMPT 413 - Computational Linguistics (3)
CMPT 414 - Model-Based Computer Vision (3)
CMPT 417 - Intelligent Systems (3)
CMPT 419 - Special Topics in Artificial Intelligence (3)
CMPT 420 – Deep Learning (3)
(...)
INFORMATION SYSTEMS
CMPT 353 - Computational Data Science (3)
CMPT 354 - Database Systems I (3)
CMPT 372 – Web 2 – Server-side Development (3)

CMPT 441 - Computational Biology (3) CMPT 454 - Database Systems II (3) CMPT 456 - Information Retrieval and Web Search (3) CMPT 459 - Special Topics in Database Systems (3) CMPT 470 - Web-based Information Systems (3) CMPT 474 - Web Systems Architecture (3)

Name of Program or Name of Faculty
School of Computing Science
Rationale for change:
CMPT 420 is a new course which will become available in the Artificial Intelligence concentration in the programs in The School. CMPT 470 is being phased out. CMPT 372 will be taking its place. CMPT 210 will be offered as an alternative to MACM 201. CMPT 353 had previously been left out in error from Table I for this Dual Degree Program.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: 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**.

Computing Science Dual Degree Program Major Bachelor of Science The school offers a dual degree program (DDP) with Zhejiang University (ZJU) in China that leads to the awarding of two degrees – a bachelor of science from Simon Fraser University (SFU) and, depending on program option, a bachelor of engineering or master of finance from Zhejiang University. [...] Program Requirements Lower Division Requirements [...]

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)

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

MATH 151 - Calculus I (3)

MATH 152 - Calculus II (3)

MATH 232 - Applied Linear Algebra (3)

and one of

CMPT 210 - Probability and Computing (3)

MACM 201 - Discrete Mathematics II (3)

(...)

Table I – Computing Science Concentrations

ARTIFICIAL INTELLIGENCE

CMPT 310 - Artificial Intelligence Survey (3)

CMPT 340 - Biomedical Computing (3)

CMPT 411 - Knowledge Representation (3)

CMPT 412 - Computational Vision (3)

CMPT 413 - Computational Linguistics (3)

CMPT 414 - Model-Based Computer Vision (3)

CMPT 417 - Intelligent Systems (3)

CMPT 419 - Special Topics in Artificial Intelligence (3)

CMPT 420 - Deep Learning (3)

(...)

INFORMATION SYSTEMS

CMPT 353 - Computational Data Science (3)

CMPT 354 - Database Systems I (3)

CMPT 372 - Web 2 - Server-side Development (3)

CMPT 441 - Computational Biology (3)

CMPT 454 - Database Systems II (3)

CMPT 456 - Information Retrieval and Web Search (3)

CMPT 459 - Special Topics in Database Systems (3)

~~CMPT 470 - Web-based Information Systems (3)~~

CMPT 474 - Web Systems Architecture (3)

Name of Program or Name of Faculty The School of Computing Science (CMPT) and Faculty of Environment, Dept of Geography
Rationale for change: CMPT 210 will be offered as an alternative to MACM 201. STAT 271 will be offered as an alternative to STAT 270. CMPT 470 is being phased out. CMPT 372 will be taking its place.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: Geographic Information Science Major Geographic Information Science 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>Geographic Information Science Major</u> Internal Transfer [...] Simon Fraser University students applying for School of Computing Science admission are selected on the basis of an admission Computing Related Grade Point Average (CRGPA) and Cumulative Grade Point Average (CGPA). The CRGPA is computed from all courses the student has taken from the following: (CMPT 120, 128 or 130), (CMPT 125, 129 or 135), CMPT 225, (CMPT 275 or 276), CMPT 295, CMPT 300, CMPT 307, MACM 101, (MACM 201 or CMPT 210), MACM 316. Applicants must have completed at least one MACM course and at least two CMPT courses from this list before applying. At least two courses used in the CRGPA calculation must have been taken at SFU. [...] Program Requirements Lower Division Requirements Students must complete all of the following
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[...]

GEOG 255 – Geographical Information Science I (3)

MACM 101 – Discrete Mathematics I (3)

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

and one of

CMPT 210 – Probability and Computing (3)

MACM 201 – Discrete Mathematics II (3)

[...]

and one of

GEOG 251 - Quantitative Geography (3)

STAT 270 - Introduction to Probability and Statistics (3)

STAT 271 - Probability and Statistics for Computing Science (3)

[...]

Upper Division Requirements

[...]

and two of

CMPT 372 – Web 2 – Server-side Development (3)

CMPT 412 - Computational Vision (3)

CMPT 419 - Special Topics in Artificial Intelligence (3)

CMPT 454 – Database Systems II (3)

CMPT 461 - Computational Photography and Image Manipulation (3)

~~CMPT 470 – Web-based Information Systems (3)~~

[...]

Geographic Information Science Honours

Internal Transfer

[...]

Simon Fraser University students applying for School of Computing Science admission are selected on the basis of an admission Computing Related Grade Point Average (CRGPA) and Cumulative Grade Point Average (CGPA). The CRGPA is computed from all courses the student has taken from the following: (CMPT 120, 128 or 130), (CMPT 125, 129 or 135), CMPT 225, (CMPT 275 or 276), CMPT 295, CMPT 300, CMPT 307, MACM 101, **(MACM 201 or CMPT 210)**, MACM 316. Applicants must have completed at least one MACM course and at least two CMPT courses from this list before applying. At least two courses used in the CRGPA calculation must have been taken at SFU.

[...]

Program Requirements

Lower Division Requirements

Students must complete all of the following

[...]

GEOG 255 – Geographical Information Science I (3)

MACM 101 – Discrete Mathematics I (3)

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

and one of

CMPT 210 – Probability and Computing (3)

MACM 201 – Discrete Mathematics II (3)

[...]

and one of

GEOG 251 - Quantitative Geography (3)

STAT 270 - Introduction to Probability and Statistics (3)

STAT 271 - Probability and Statistics for Computing Science (3)

[...]

Upper Division Requirements

[...]

and four of

CMPT 363 - User Interface Design (3)

CMPT 371 - Data Communications and Networking (3)

CMPT 384 - Symbolic Computing (3)

CMPT 372 – Web 2 – Server-side Development (3)

CMPT 412 - Computational Vision (3)

CMPT 419 - Special Topics in Artificial Intelligence (3)

CMPT 461 - Computational Photography and Image Manipulation (3)

~~CMPT 470 – Web-based Information Systems (3)~~

[...]

Name of Program or Name of Faculty School of Computing Science; Dept of Linguistics (FASS)
Rationale for change: CMPT 420 is a new course which will become available within the Artificial Intelligence concentration in the programs in The School. CMPT 470 is being phased out. CMPT 372 will be taking its place. CMPT 210 is being offered as an alternative to MACM 201 for the program. STAT 271 is being offered as an alternative to STAT 270 for the program. CMPT 353 had been erroneously left out of Table I in the past.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: Computing Science and Linguistics Joint 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**.

Computing Science and Linguistics Joint Major BACHELOR OF ARTS OR BACHELOR OF SCIENCE The School of Computing Science and the Department of Linguistics offer this joint major in the area of computational linguistics. Contact advisors in both departments for permission to enroll. Student enrollment, appeals and graduation processing are administered by the School of Computing Science. [...] Program Requirements Lower Division Requirements [...]
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and one of

BUS 232 - Data and Decisions I (4)

STAT 270 - Introduction to Probability and Statistics (3)

STAT 271 - Probability and Statistics for Computing Science (3)

[...]

Computing Science Requirements

Students complete at least 21 units, including either both of

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

CMPT 125 - Introduction to Computing Science and Programming II (3)

or both of

CMPT 130 - Introduction to Computer Programming I (3)

CMPT 135 - Introduction to Computer Programming II (3)

and all of

CMPT 105W - Social Issues and Communication Strategies in Computing Science

(3) CMPT 225 - Data Structures and Programming (3)

CMPT 276 - Introduction to Software Engineering (3)

CMPT 295 - Introduction to Computer Systems (3)

MACM 101 - Discrete Mathematics I (3)

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

and one of

CMPT 210 - Probability and Computing (3)

MACM 201 - Discrete Mathematics II (3)

[...]

Table I – Computing Science Concentrations

ARTIFICIAL INTELLIGENCE

CMPT 310 - Artificial Intelligence Survey (3)

CMPT 340 - Biomedical Computing (3)

CMPT 411 - Knowledge Representation (3)

CMPT 412 - Computational Vision (3)

CMPT 413 - Computational Linguistics (3)

CMPT 414 - Model-Based Computer Vision (3)
 CMPT 417 - Intelligent Systems (3)
 CMPT 419 - Special Topics in Artificial Intelligence (3)
CMPT 420 – Deep Learning (3)
 (...)
 INFORMATION SYSTEMS
CMPT 353 - Computational Data Science (3)
 CMPT 354 - Database Systems I (3)
CMPT 372 – Web 2 – Server-side Development (3)
 CMPT 441 - Computational Biology (3)
 CMPT 454 - Database Systems II (3)
 CMPT 456 - Information Retrieval and Web Search (3)
 CMPT 459 - Special Topics in Database Systems (3)
~~CMPT 470 – Web-based Information Systems (3)~~
 CMPT 474 - Web Systems Architecture (3)

Name of Program or Name of Faculty The School of Computing Science (CMPT) and Faculty of Science, Dept of Molecular Biology and Biochemistry (MBB)
Rationale for change: CMPT 210 will be offered as an option to MACM 201. STAT 271 will be offered as an option to STAT 270.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: Molecular Biology and Biochemistry and Computing Science Joint Major; Molecular Biology and Biochemistry and Computing Science 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**.

Lower Division Requirements [...] and all of BISC 101 - General Biology (4) BISC 102 - General Biology (4) BISC 202 - Genetics (3) CHEM 121 - General Chemistry and Laboratory I (4) CHEM 122 - General Chemistry II (2) CHEM 281 - Organic Chemistry and Laboratory I (4) CMPT 225 - Data Structures and Programming (3) CMPT 276 - Introduction to Software Engineering (3) CMPT 295 - Introduction to Computer Systems (3) MACM 101 - Discrete Mathematics I (3) MACM 201 - Discrete Mathematics II (3) MATH 152 - Calculus II (3) MBB 222 - Molecular Biology and Biochemistry (3) MBB 231 - Cellular Biology and Biochemistry (3) STAT 270 - Introduction to Probability and Statistics (3)
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and one of

CMPT 210 – Probability and Computing (3)

MACM 201 – Discrete Mathematics II (3)

and one of

STAT 271 - Probability and Statistics for Computing Science (3)

STAT 270 – Introduction to Probability and Statistics (3)

(...)

Name of Program or Name of Faculty School of Computing Science
Rationale for change: STAT 205 will no longer be offered.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: Software Systems 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**.

Software Systems Major BACHELOR OF SCIENCE Lower Division Requirements (...) and one of STAT 205 – Introduction to Statistics (3) STAT 270 – Introduction to Probability and Statistics (3) STAT 271 - Probability and Statistics for Computing Science (3) BUS 232 - Data and Decisions (3) (...)
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**Name of Program or Name of Faculty**

Economics Major, Economics Honours, Business and Economics Joint Major, Political Science and Economics Joint Major, Business and Economics Joint Honours

Rationale for change:

- (1) Adding relevant ECON courses to reduce enrolment pressure on existing courses and (2) adjusting STAT courses to make the selection more coherent and accessible and to prevent double dipping in low-credit courses that are meant to be taken alongside one another.

Effective term and year: Fall 2022

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

Economics Major, Economics Honours, Business and Economics Joint Major, Political Science and Economics Joint Major, Business and Economics 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**.

Concentration in Economic Data Analysis

Students qualify for this concentration by completing six required courses of which at least four must be ECON courses.

Students complete

ECON 333 - Statistical Analysis of Economic Data (4)

one of

BUS 232 - Data and Decisions I (4)

ECON 233 - Introduction to Economic Data and Statistics (4)

STAT 270 - Introduction to Probability and Statistics (3)

and at least four of

CMPT 129 - Introduction to Computing Science and Programming for Mathematics and Statistics (3)

ECON 334 - Data Visualization and Economic Analysis (3)



ECON 335 - Introduction to Casual Inference and Policy Evaluation (3)
ECON 428 - Seminar in Experimental and Behavioural Economics (3)
ECON 433 - Financial and Time Series Econometrics (3)
ECON 434 - Seminar in Applied Market Design (3)
ECON 435 - Econometric Methods (5)
ECON 436 - Seminar in Economics and Social Network Analysis (3)
ECON 480 - Seminar in the Economics of Labor Market Policy (3)
STAT 260 - Introductory R for Data Science (2) #
STAT 261 - Laboratory for Introductory R for Data Science (1) #
STAT 310 - Introduction to Data Science for the Social Sciences (2) * %
STAT 311 - Data Science Laboratory for the Social Sciences (2) * %
STAT 342 - Introduction to Statistical Computing and Exploratory Data Analysis - SAS (2)
~~STAT 440 - Learning from Big Data (3) +~~
STAT 445 - Applied Multivariate Analysis (3)
STAT 452 - Statistical Learning and Prediction (3)
STAT 475 - Applied Discrete Data Analysis (3) *
STAT 485 - Applied Time Series Analysis (3) *

Other courses with appropriate content can be used for credit upon prior application to the advisor.

* Allows ECON 333 as prerequisite

~~+ Requires STAT 341 or STAT 342 as prerequisite~~

Corequisite courses STAT 260 and STAT 261 count as only one course.

% Corequisite courses STAT 310 and STAT 311 count as only one course.



Name of Program or Name of Faculty
Economics Major
Rationale for change:
FASS is aligning the program CGPA calculations with recent changes to the calendar language. Economics wishes to maintain the subject specific CGPA calculation
Effective term and year: Fall 2022
The following program(s) will be affected by these changes:
Economics 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**.

Program Requirements Students complete 120 units, as specified below. In order to graduate from any ECON major, joint major, minor, or extended minor program, students must have a minimum ECON cumulative grade point average (CGPA) of 2.0 and a minimum ECON cumulative upper division grade point average (CUDGPA) of 2.0, calculated on all ECON courses completed at SFU. All major students must meet BA degree requirements as described in the Faculty of Arts and Social Sciences section.
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Name of Program or Name of Faculty
Business and Economics Joint Major
Rationale for change:
FASS is aligning the program CGPA calculations with recent changes to the calendar language. Economics wishes to maintain the subject specific CGPA calculation
Effective term and year: Fall 2022
The following program(s) will be affected by these changes:
Business and Economics Joint 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**.

Grade Requirements 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. A minimum 2.30 overall SFU Business course grade point average is required for graduation from a Business major, joint major, or double degree program. In order to graduate from any ECON major, joint major, minor, or extended minor program, students must have a minimum ECON cumulative grade point average (CGPA) of 2.0 and a minimum ECON cumulative upper division grade point average (CUDGPA) of 2.0, calculated on all ECON courses completed at SFU. 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).



Name of Program or Name of Faculty

Political Science and Economics Joint Major

Rationale for change:

FASS is aligning the program CGPA calculations with recent changes to the calendar language. Economics wishes to maintain the subject specific CGPA calculation

Effective term and year: Fall 2022

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

Political Science and Economics Joint 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**.

Program Requirements

Students complete 120 units, as specified below.

In order to graduate from any ECON major, joint major, minor, or extended minor program, students must have a minimum ECON cumulative grade point average (CGPA) of 2.0 and a minimum ECON cumulative upper division grade point average (CUDGPA) of 2.0, calculated on all ECON courses completed at SFU.

Lower Division Political Science Requirements



Name of Program or Name of Faculty
Economics Minor
Rationale for change:
FASS is aligning the program CGPA calculations with recent changes to the calendar language. Economics wishes to maintain the subject specific CGPA calculation
Effective term and year: Fall 2022
The following program(s) will be affected by these changes:
Economics 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**.

Program Requirements In order to graduate from any ECON major, joint major, minor, or extended minor program, students must have a minimum ECON cumulative grade point average (CGPA) of 2.0 and a minimum ECON cumulative upper division grade point average (CUDGPA) of 2.0, calculated on all ECON courses completed at SFU. Lower Division Requirements A minimum C- grade in all of the required courses listed below is required.
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Name of Program or Name of Faculty

Economics Extended Minor

Rationale for change:

FASS is aligning the program CGPA calculations with recent changes to the calendar language. Economics wishes to maintain the subject specific CGPA calculation

Effective term and year: Fall 2022

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

Economics Extended 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**.

Program Requirements

In order to graduate from any ECON major, joint major, minor, or extended minor program, students must have a minimum ECON cumulative grade point average (CGPA) of 2.0 and a minimum ECON cumulative upper division grade point average (CUDGPA) of 2.0, calculated on all ECON courses completed at SFU.

Students complete the same lower division requirements as a major. The requirements are as follows.

Lower Division Requirements

Name of Program or Name of Faculty School of Criminology
Rationale for change: Reduce UD Crim credits for Criminology Minor from 18 to 15 credits.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: Criminology 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**.

Upper Division Course Access and Requirements

Students with a minimum 2.25 CGPA are eligible to enrol in upper division Criminology courses upon successful completion of 60 units and Criminology program declaration.

Students complete a minimum of ~~18~~ **15** upper division units in Criminology*.

*Declared Criminology students may not take CRIM 301 for credit.

Name of Program or Name of Faculty School of Criminology
Rationale for change: Reduce UD Crim credits for Crim Extended Minor from 18 to 15 credits.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: Criminology Extended 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**.

Upper Division Course Access and Requirements

Students with a minimum 2.25 CGPA are eligible to enrol in upper division Criminology courses upon successful completion of 60 units and Criminology program declaration.

Students complete a minimum of ~~18~~ **15** upper division units in Criminology*.

*Declared Criminology students may not take CRIM 301 for credit.

Name of Program or Name of Faculty School of Criminology
Rationale for change: Add Crim 460 to the list of courses towards the Police Studies Minor
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: Police Studies 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**.

Upper Division Course Access and Requirements

Students with a minimum 2.25 CGPA are eligible to enroll in upper division Criminology courses upon successful completion of 60 units and Criminology program declaration.

Note that same upper division course may not be used for formal credit in both the criminology major and the police studies minor. Students cannot obtain credit for both the post baccalaureate diploma in police studies and this minor program.

Students complete a minimum of 18 upper division units, chosen from the following list, or from any other 300 or 400 division course that is designated as a police studies course from either the School of Criminology (e.g. Special Topics courses), or from another department. See the School of Criminology's academic advisor for further information.

Minorities and the Criminal Justice System

CRIM 311 - Minorities and the Criminal Justice System (3)
 CRIM 419 - Aboriginal/Indigenous Justice (3)
 CRIM 429 - Indigenous Peoples and International Law (3)

Forensic Studies

CRIM 355 - The Forensic Sciences (3)
 CRIM 356 - The Forensic Sciences II (3)

CRIM 357 - Forensic Anatomy (3)
CRIM 451 - Advanced Techniques in Forensic Science (3)
CRIM 452 - Skeletal Pathology and Criminalistics (3)

Restorative Justice

CRIM 315 - Restorative Justice (4)
CRIM 442 - Restorative Justice Practice: Advanced Topics (3)

Cybercrime

CRIM 380 - Introduction to Cybercrime (3)
CRIM 480 - Computer Forensics and Cybercrime (3)
CRIM 481 - Advanced Issues in Cybercrime (3)

Crime Analysis and Crime Prevention

CRIM 350 - Techniques of Crime Prevention (3)
CRIM 352 - Environmental Criminology: Theory and Practice (3)
CRIM 433 - Communities and Crime (3)
CRIM 460 - Applied Crime Prevention (3)

Name of Program or Name of Faculty School of Criminology
Rationale for change: Add Crim 460 to the list of courses towards the Police Studies Post Baccalaureate Diploma
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: Police Studies Post Baccalaureate Diploma

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**.

Program Requirements

Students cannot obtain credit for both the minor in police studies and this post baccalaureate diploma program.

Students complete a total of 30 units, chosen from the following list, or from any other 300 or 400 division course that is designated as a police studies course from either the School of Criminology (e.g. Special Topics courses), or from another department such as ~~First Nations Studies Program~~, **Department of Indigenous Studies**, Department of Sociology and Anthropology, School of Computing Science, Department of Psychology, etc.).

See the School of Criminology's academic advisor for further information.

Minorities and the Criminal Justice System

CRIM 311 - Minorities and the Criminal Justice System (3)
CRIM 419 - Aboriginal/Indigenous Justice (3)
CRIM 429 - Indigenous Peoples and International Law (3)

Forensic Studies

CRIM 355 - The Forensic Sciences (3)
CRIM 356 - The Forensic Sciences II (3)
CRIM 357 - Forensic Anatomy (3)
CRIM 451 - Advanced Techniques in Forensic Science (3)
CRIM 452 - Skeletal Pathology and Criminalistics (3)

Restorative Justice

CRIM 315 - Restorative Justice (4)

CRIM 442 - Restorative Justice Practice: Advanced Topics (3)

Cybercrime

CRIM 380 - Introduction to Cybercrime (3)

CRIM 480 - Computer Forensics and Cybercrime (3)

CRIM 481 - Advanced Issues in Cybercrime (3)

Crime Analysis and Crime Prevention

CRIM 350 - Techniques of Crime Prevention (3)

CRIM 352 - Environmental Criminology: Theory and Practice (3)

CRIM 433 - Communities and Crime (3)

CRIM 460 - Applied Crime Prevention (3)

Name of Program or Name of Faculty School of Criminology
Rationale for change: Add Crim 460 to the list of courses towards the Certificate in Police Studies
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: Certificate in Police Studies

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**.

Program Requirements

This program consists of six courses (18 units) chosen from the following list. Students may choose to focus their studies by completing courses in several of the following clusters, or they may choose their six from any courses in the list, regardless of the clusters.

Students may also choose any other 300 or 400 division course that is designated as a police studies course. Such courses may be offered by the School of Criminology (e.g. special topics courses), or other departments and faculties such as ~~First Nations Studies Program~~, **Department of Indigenous Studies**, Department of Sociology and Anthropology, Department of Archaeology, School of Computing Science, Department of Psychology.

See the school's advisor for further information.

Note that some of the following courses may have prerequisites.

All courses must be completed at Simon Fraser University.

Minorities and the Criminal Justice System

CRIM 311 - Minorities and the Criminal Justice System (3)

CRIM 419 - Aboriginal/Indigenous Justice (3)

CRIM 429 - Indigenous Peoples and International Law (3)

Forensic Studies

CRIM 355 - The Forensic Sciences (3)

CRIM 356 - The Forensic Sciences II (3)

CRIM 357 - Forensic Anatomy (3)

CRIM 451 - Advanced Techniques in Forensic Science (3)

CRIM 452 - Skeletal Pathology and Criminalistics (3)

Restorative Justice

CRIM 315 - Restorative Justice (4) *

CRIM 442 - Restorative Justice Practice: Advanced Topics (3) *

Cybercrime

CRIM 380 - Introduction to Cybercrime (3) *

CRIM 480 - Computer Forensics and Cybercrime (3) *

CRIM 481 - Advanced Issues in Cybercrime (3) *

Crime Analysis and Crime Prevention

CRIM 350 - Techniques of Crime Prevention (3)

CRIM 352 - Environmental Criminology: Theory and Practice (3)

CRIM 433 - Communities and Crime (3)

CRIM 460 - Applied Crime Prevention (3)

(...)

* When offered with a focus of policing

Name of Program or Name of Faculty School of Criminology
Rationale for change: Add PHIL 326 and PHIL 329 as courses towards the Legal Studies Minor
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: Legal Studies 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**.

Upper Division Course Access and Requirements

Students with a minimum 2.25 CGPA are eligible to enrol in upper division Criminology courses upon successful completion of 60 units and Criminology program declaration.

Note that same upper division course may not be used for formal credit in both the criminology major and the legal studies minor. Students cannot obtain credit for both the post baccalaureate diploma in legal studies and this minor program.

Students complete a minimum of 18 upper division units including:

One of

CRIM 332 - Sociology of Law (3)
CRIM 338 - Philosophy of Law (3)

Students must select additional courses totalling at least 15 units from the upper division courses listed below. Students must ensure they have necessary lower division prerequisites.

Note: Students who have completed both CRIM 332 and 338 need only complete 12 units from the list below.

Criminology majors who wish to complete this minor must complete six of the upper division units in a discipline outside of their major.

BUS 393 - Commercial Law (3)
CRIM 310 - Young Offenders and Criminal Justice: Advanced Topics (3)
CRIM 314 - Mental Disorder, Criminality and the Law (3)
CRIM 317 - Sex, Work, and the Law (3)
CRIM 330 - Criminal Procedure and Evidence (3)
CRIM 331 - Advanced Criminal Law (3)
CRIM 335 - Human Rights and Civil Liberties (3)
CRIM 416 - Current Issues in Criminology and Criminal Justice (3) *
CRIM 417 - Current Issues in Criminology and Criminal Justice (3) *
CRIM 418 - Current Issues in Criminology and Criminal Justice (3) *
CRIM 429 - Indigenous Peoples and International Law (3)
CRIM 432 - Gender in the Courts and the Legal Profession (3)
CRIM 437 - Crime and Misconduct in the Professions (3)
CRIM 438 - Wrongful Convictions and Other Miscarriages of Justice (3)
ECON 427W - Industrial Organization: Law and Economics (3)
EDUC 445 - Legal Context of Teaching (4)
EDUC 446 - Law for the Classroom Teacher (4)
EDUC 448 - Teaching about Justice, Law and Citizenship (4)
GEOG 440 - Property, Land, Society (4)
GSWS 411 - Special Topics in Gender, Sexuality, and Women's Studies (4) **
HIST 443W - Aboriginal Peoples, History and the Law (4) or INDG 443W - Aboriginal Peoples, History and the Law (4)
PHIL 320 - Social and Political Philosophy (3)
PHIL 321 - Topics in Moral Philosophy (3)
PHIL 326 - Topics in Law and Philosophy (3)
PHIL 329 - Law and Justice (3)
POL 324 - The Canadian Constitution (4)
POL 344 - International Law (4)
POL 346 - International Organization (4)
POL 351 - Immigration, Integration, and Public Policy in Canada (4)
POL 417 - Human Rights Theories (4)
POL 459 - Selected Topics in Governance (4) *
PSYC 376 - Experimental Psychology and Law (3)
PSYC 379 - Clinical Forensic Psychology (3)
PSYC 476 - Advanced Topics in Law and Forensic Psychology (4)
WL 303 - Global Culture and Its Discontents (4)

Name of Program or Name of Faculty School of Criminology
Rationale for change: Add PHIL 326 and PHIL 329 as courses towards the Legal Studies Post Baccalaureate Diploma
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: Legal Studies Post Baccalaureate Diploma

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**.

Additional Required Courses

To total 30 units, students choose additional courses from the Legal Studies Minor Program electives list as shown below. Exemptions and replacements for required courses may be granted by the criminology associate director who is responsible for undergraduate programs.

ECON 427W - Industrial Organization: Law and Economics (3)
BUS 393 - Commercial Law (3)
CRIM 310 - Young Offenders and Criminal Justice: Advanced Topics (3)
CRIM 314 - Mental Disorder, Criminality and the Law (3)
CRIM 331 - Advanced Criminal Law (3)
CRIM 335 - Human Rights and Civil Liberties (3)
CRIM 416 - Current Issues in Criminology and Criminal Justice (3) **
CRIM 417 - Current Issues in Criminology and Criminal Justice (3) **
CRIM 418 - Current Issues in Criminology and Criminal Justice (3) **
CRIM 432 - Gender in the Courts and the Legal Profession (3)
CRIM 437 - Crime and Misconduct in the Professions (3)
CRIM 438 - Wrongful Convictions and Other Miscarriages of Justice (3)
EDUC 445 - Legal Context of Teaching (4)
EDUC 446 - Law for the Classroom Teacher (4)
EDUC 448 - Teaching about Justice, Law and Citizenship (4)
GEOG 440 - Property, Land, Society (4)
PHIL 320 - Social and Political Philosophy (3)

PHIL 321 - Topics in Moral Philosophy (3)

PHIL 326 - Topics in Law and Philosophy (3)

PHIL 329 - Law and Justice (3)

POL 324 - The Canadian Constitution (4)

POL 344 - International Law (4)

POL 346 - International Organization (4)

POL 351 - Immigration, Integration, and Public Policy in Canada (4)

POL 417 - Human Rights Theories (4)

POL 459 - Selected Topics in Governance (4)

WL 303 - Global Culture and Its Discontents (4)

Name of Program or Name of Faculty School of Criminology
Rationale for change: Add PHIL 326 and PHIL 329 as courses towards the Legal Studies Certificate
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: Legal Studies Certificate

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**.

Program Requirements

Students complete a total of six courses (18 units), including all of

CRIM 332 - Sociology of Law (3)
 CRIM 335 - Human Rights and Civil Liberties (3)
 CRIM 338 - Philosophy of Law (3)

and three courses chosen from

BUS 393 - Commercial Law (3)
 ECON 427W - Industrial Organization: Law and Economics (3)
 CRIM 310 - Young Offenders and Criminal Justice: Advanced Topics (3)
 CRIM 314 - Mental Disorder, Criminality and the Law (3)
 CRIM 317 - Sex, Work, and the Law (3)
 CRIM 330 - Criminal Procedure and Evidence (3)
 CRIM 331 - Advanced Criminal Law (3)
 CRIM 416 - Current Issues in Criminology and Criminal Justice (3) *
 CRIM 417 - Current Issues in Criminology and Criminal Justice (3) *
 CRIM 418 - Current Issues in Criminology and Criminal Justice (3) *
 CRIM 429 - Indigenous Peoples and International Law (3) or INDG 429 - Indigenous Peoples and International Law (3)
 CRIM 432 - Gender in the Courts and the Legal Profession (3)
 CRIM 437 - Crime and Misconduct in the Professions (3)
 CRIM 438 - Wrongful Convictions and Other Miscarriages of Justice (3)
 EDUC 445 - Legal Context of Teaching (4)

EDUC 446 - Law for the Classroom Teacher (4)
EDUC 448 - Teaching about Justice, Law and Citizenship (4)
GEOG 440 - Property, Land, Society (4)
GSWS 411 - Special Topics in Gender, Sexuality, and Women's Studies (4) **
INDG 443W - Aboriginal Peoples, History and the Law (4) or HIST 443W - Aboriginal Peoples, History and the Law (4)
PHIL 320 - Social and Political Philosophy (3)
PHIL 321 - Topics in Moral Philosophy (3)
PHIL 326 - Topics in Law and Philosophy (3)
PHIL 329 - Law and Justice (3)
POL 324 - The Canadian Constitution (4)
POL 344 - International Law (4)
POL 346 - International Organization (4)
POL 351 - Immigration, Integration, and Public Policy in Canada (4)
POL 417 - Human Rights Theories (4)
POL 459 - Selected Topics in Governance (4) *
PSYC 376 - Experimental Psychology and Law (3)
PSYC 379 - Clinical Forensic Psychology (3)
PSYC 476 - Advanced Topics in Law and Forensic Psychology (4)
WL 303 - Global Culture and Its Discontents (4)

Additional relevant courses may be added to the list of optional courses as they become available. Students are responsible for satisfying the prerequisites for all required courses. Courses must be completed at Simon Fraser University unless permission of the undergraduate chair is granted upon admission to this program. See the school's academic advisor for further information.

* when offered as a legal studies topic

** when offered as the topic Women and the Law

Name of Program or Name of Faculty
Business and Economics Joint Major
Rationale for change:
ECON 113 and ECON 115 are new courses that provide the intuitive fundamentals of micro/macroeconomic literacy through accessible language and graphs. Students who intend to complete a minor, major, or specialist program in Economics are advised to take Econ 103 and 105. However, students can substitute either or both course by completing Econ 113 and/or Econ 115, respectively, with a minimum grade of A- on the first attempt.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes:
Business and Economics Joint 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 Students complete one of BUS 217W - Critical Thinking in Business (3) ECON 220W - Communication in Economics (4) and all of BUS 237 - Introduction to Business Technology Management (3) BUS 251 - Financial Accounting I (3) BUS 254 - Managerial Accounting I (3) BUS 272 - Behaviour in Organizations (3) ECON 103 - Principles of Microeconomics (4) or ECON 113 – Introduction to Microeconomics (3)** ECON 105 - Principles of Macroeconomics (4) or ECON 115 – Introduction to Macroeconomics (3)** ECON 201 - Microeconomic Theory I: Competitive Behavior (4) MATH 157 - Calculus I for the Social Sciences (3) One additional 200 level ECON course (...) ** ECON 113 and 115 with a minimum grade of A- on first attempt
--

Name of Program or Name of Faculty
Economics Extended Minor
Rationale for change:
ECON 113 and ECON 115 are new courses that provide the intuitive fundamentals of micro/macroeconomic literacy through accessible language and graphs. Students who intend to complete a minor, major, or specialist program in Economics are advised to take Econ 103 and 105. However, students can substitute either or both course by completing Econ 113 and/or Econ 115, respectively, with a minimum grade of A- on the first attempt.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes:
Economics Extended 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**.

[...] Lower Division Requirements Students complete the following with at least a C- grade in each course prior to program admission with a minimum grade of C- (unless otherwise indicated). ECON 103 - Principles of Microeconomics (4) or ECON 113 - Introduction to Microeconomics (3)* ECON 105 - Principles of Macroeconomics (4) or ECON 115 - Introduction to Macroeconomics (3)* ECON 201 - Microeconomic Theory I: Competitive Behavior (4) MATH 157 - Calculus I for the Social Sciences (3) Students must also complete [...] * ECON 113 and 115 with a minimum grade of A- on first attempt
--

Name of Program or Name of Faculty
Economics Major
Rationale for change:
ECON 113 and ECON 115 are new courses that provide the intuitive fundamentals of micro/macroeconomic literacy through accessible language and graphs. Students who intend to complete a minor, major, or specialist program in Economics are advised to take Econ 103 and 105. However, students can substitute either or both course by completing Econ 113 and/or Econ 115, respectively, with a minimum grade of A- on the first attempt.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes:
Economics 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 Students complete the following with at least a C- grade in each course prior to program admission with at least a C- grade (unless otherwise indicated). ECON 103 - Principles of Microeconomics (4) or ECON 113 – Introduction to Microeconomics (3)* ECON 105 - Principles of Macroeconomics (4) or ECON 115 – Introduction to Macroeconomics (3)* ECON 201 - Microeconomic Theory I: Competitive Behavior (4) MATH 157 - Calculus I for the Social Sciences (3) Students must also complete (...) * ECON 113 and 115 with a minimum grade of A- on first attempt

Name of Program or Name of Faculty
Political Science and Economics Joint Major
Rationale for change:
ECON 113 and ECON 115 are new courses that provide the intuitive fundamentals of micro/macroeconomic literacy through accessible language and graphs. Students who intend to complete a minor, major, or specialist program in Economics are advised to take Econ 103 and 105. However, students can substitute either or both course by completing Econ 113 and/or Econ 115, respectively, with a minimum grade of A- on the first attempt.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes:
Political Science and Economics Joint 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 Economics Requirements Prior to admission to this joint major program, students complete, with a grade of at least C- (unless otherwise indicated), all of ECON 103 - Principles of Microeconomics (4) or ECON 113 - Introduction to Microeconomics (3)* ECON 105 - Principles of Macroeconomics (4) or ECON 115 - Introduction to Macroeconomics (3)* ECON 201 - Microeconomic Theory I: Competitive Behavior (4) MATH 157 - Calculus I for the Social Sciences (3) Students also complete one of BUS 232 - Data and Decisions I (4) ECON 233 - Introduction to Economic Data and Statistics (4) and both of ECON 220W - Communication in Economics (4) one additional 200 division ECON course (...) * ECON 113 and 115 with a minimum grade of A- on first attempt

Name of Program or Name of Faculty
Economics Minor
Rationale for change:
ECON 113 and ECON 115 are new courses that provide the intuitive fundamentals of micro/macroeconomic literacy through accessible language and graphs. Students who intend to complete a minor, major, or specialist program in Economics are advised to take Econ 103 and 105. However, students can substitute either or both course by completing Econ 113 and/or Econ 115, respectively, with a minimum grade of A- on the first attempt.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes:
Economics 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 Program admission is limited. Entry is via a formal department application. Students may apply for admission to the minor program once 30 units have been completed, ECON 103 and 105 are completed with at least a C- grade in each course, the minimum cumulative grade point average (CGPA) is met, and the ECON program GPA is met, and they have completed (1) 30 units, (2) ECON 103 - Principles of Microeconomics (4) with a minimum grade of C-, or ECON 113 – Introduction to Microeconomics (3) with a minimum grade of A- on first attempt (3) ECON 105 - Principles of Macroeconomics (4) with a minimum grade of C-, or ECON 115 – Introduction to Macroeconomics (3) with a minimum grade of A- on first attempt The department announces the minimum CGPA below which students will not normally be considered for admission to its programs.

[...]

Lower Division Requirements

~~A minimum C- grade in all of the required courses listed below is required.~~ **Students complete**

ECON 103 - Principles of Microeconomics (4) **or ECON 113 - Introduction to Microeconomics (3)***

ECON 105 - Principles of Macroeconomics (4) **or ECON 115 - Introduction to Macroeconomics (3)***

two 200 division ECON courses

*** ECON 113 and 115 with a minimum grade of A- on first attempt**

Name of Program or Name of Faculty Indigenous Studies
Rationale for change: To make program more accessible and achievable for students, and ultimately lead to more people being exposed to Indigenous Studies.
Effective term and year: Spring 2023
The following program(s) will be affected by these changes: Indigenous Studies Research Certificate

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**.

Indigenous Studies Research CERTIFICATE This program explores the histories, cultures, languages, governance structures, knowledge systems, history, prehistory, culture, language and contemporary realities situation of Canadian Indigenous peoples within lands claimed by the colonial-settler state of Canada, and teaches basic research skills in this context. The certificate, which can be completed as a full-time or part-time program or as part of a bachelor's degree, is especially suited to students who wish to gain proficiency in Indigenous content, issues impacting Indigenous issues communities, social research skills, and basic cultural resource management skills. Students should plan their admission and program in consultation with the Indigenous Studies advisor. Admission Requirements Normal University admission requirements apply. Students may be admitted under regular or special categories. Assistance is available from the Indigenous Studies advisor. Program Declaration Students seeking admission into an Indigenous Studies Academic Program must demonstrate competency in a minimum of three INDG courses at SFU with an average subject grade of C or better. Completion of INDG 101 and INDG 201W prior to declaring an INDG program is recommended.

Students who have successfully completed three or more INDG courses should contact the Department Advisor to review eligibility and program completion timeline.

Program Requirements

Lower and Upper Division Requirements

Requirements include

- Successful completion of at least ~~30~~ **18** units, including at least ~~12~~ **9** lower division units and the remainder from the course groups below.
- Minimum grade point average of 2.0 calculated on all courses applied to the certificate. Duplicate courses are counted only once.
- Completion of the certificate normally within five years of program admission.

Students complete all of

INDG 101 - Introduction to Indigenous Studies (3)

INDG 201W - Indigenous Peoples' Perspectives on History (3)

INDG 301 - Issues in Applied Indigenous Studies Research (3)

~~two~~ **one** courses from

INDG 102 - Indigenous Academic Research (4)

INDG 110W - International Indigenous Lifewriting (4)

INDG 111 - Introduction to Participatory Indigenous Research Methods (3)

INDG 210 - Introduction to Indigenous Digital Media (3)

INDG 211 - Researching Residential Schools: An Analysis of RS in North America (3)

INDG 212 - Indigenous Perceptions of Landscape (3)

INDG 232 - Introduction to Ethnoecology in Indigenous Studies (3)

INDG 250 - Introduction to Indigenous Policy (3)

INDG 286 - Indigenous Peoples and British Columbia: An Introduction (3)

~~one course from~~

~~INDG 332 - Indigenous Ethnobotany (3)~~

~~INDG 333 - Indigenous Ethnozoology (3)~~

~~INDG 353W - Indigenous Heritage Stewardship (3)~~

~~INDG 433 - Indigenous Environmental Justice and Activism (4)~~

~~one practicum option~~

~~OPTION 1~~

~~One term placement in the SFU Co-operative Education Program in Indigenous Studies with a place in an Indigenous organization. The employment situation must be acceptable to the Indigenous Studies research program. Indigenous Studies Co-op courses include:~~

~~FASS 201 - FASS Co-op Practicum I (3)
FASS 301 - FASS Co-op Practicum II (3)
FASS 302 - FASS Co-op Practicum III (3)
FASS 401 - FASS Co-op Practicum IV (3)
FASS 402 - FASS Co-op Practicum V (3)~~

~~OPTION 2~~

~~INDG 442 Directed Readings in Indigenous Studies (3), which permits a faculty member to supervise an independent field research project.~~

and the remaining units chosen from the following list:

INDG 305 - Treaties in Canada (1)

INDG 310 - Indigenous Film (3)
INDG 322 - Special Topics in Indigenous Studies (0) ††
INDG 325 - History of Aboriginal Peoples of North America to 1850 (4) † or HIST 325 - History of Aboriginal Peoples of North America to 1850 (4) †
INDG 326 - History of Aboriginal Peoples of North America Since 1850 (4) † or HIST 326 - History of Aboriginal Peoples of North America Since 1850 (4) †
INDG 327 - Aboriginal Women in Canada (4) † or GSWS 327 - Aboriginal Women in Canada (4) †
INDG 329 - Sexuality and Gender: Indigenous Perspectives (3)
INDG 332 - Indigenous Ethnobotany (3) **
INDG 333 - Indigenous Ethnozoology (3) **
INDG 353W - Indigenous Heritage Stewardship (3) **
INDG 360 - Popular Writing by Indigenous Authors (4) or ENGL 360 - Popular Writing by Indigenous Authors (4)
INDG 363 - Indigenous Poetry, Poetics, Printmaking (4)
INDG 383 - Indigenous Technology: Art and Sustainability (4)
INDG 401 - Aboriginal Peoples and Public Policy (3)
INDG 402W - Discourses of Indigenous Peoples (3)
INDG 403 - Indigenous Knowledge in the Modern World (3)
INDG 410 - Elements of Indigenous Style: Indigenous Editing Practices (4)
INDG 419 - Aboriginal/Indigenous Justice (3) † or CRIM 419 - Aboriginal/Indigenous Justice (3) †
INDG 422 - Special Topics in Indigenous Studies (0) ††
INDG 429 - Indigenous Peoples and International Law (3) † or CRIM 429 - Indigenous Peoples and International Law (3) †
INDG 433 - Indigenous Environmental Justice and Activism (4) **

INDG 442 - Directed Readings in Indigenous Studies (3)

INDG 443W - Aboriginal Peoples, History and the Law (4) † or HIST 443W - Aboriginal Peoples, History and the Law (4) †

INDG 447 - Directed Studies in Indigenous Studies (3)

INDG 462 - Indigenous Oral Testimony: Theory, Practice, Purpose, Community (4)

Other courses that have significant Indigenous content may be counted towards this certificate with Indigenous Studies approval.

~~Note: A three course maximum (10 units) of comparable content and level from an approved college or university may be transferred, subject to University regulations and department approval. Units applied to this certificate may also apply to a major, a joint major or minor or bachelor's degree under normal program regulations, but may not be applied to another Simon Fraser University certificate or diploma.~~

** when not used in the preceding group requirement.

† only one of the two courses may be used and may count toward the certificate

†† may be completed more than once when offered as a different topic

Name of Program or Name of Faculty Certificate in International Studies
Rationale for change: Updating curriculum with addition of newly proposed courses.
Effective term and year: Spring 2023
The following program(s) will be affected by these changes: Certificate in International Studies

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**.

ASIA [...] IS 414 - Current Regional Issues in Southeast Asia (4) IS 465 - China in the World: Chinese International Development and Politics (4) [...] GLOBAL, VARIABLE, OR CROSS-REGIONAL COVERAGE [...] IS 358 - Development, Aid and Difference in Historical Perspective (4) or HIST 358 - Development, Aid and Difference in Historical Perspective (4) IS 365 - Surveillance Capitalism in Global Context (4) [...]
--

Name of Program or Name of Faculty: International Studies Major, International Studies Minor, International Studies Honours, World Literature and International Studies Joint Major
Rationale for change: Rationale for change: Updating curriculum with addition of newly proposed courses.
Effective term and year: Spring 2023
The following program(s) will be affected by these changes: International Studies Major, International Studies Minor, International Studies Honours, World Literature and International Studies Joint 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**.

Upper Division Requirements [...] Comparative World Politics, Culture and Society Concentration [...] IS 333 - Chinese Development and Its Discontents (4) IS 365 - Surveillance Capitalism in Global Context (4) IS 410 - Politics, Institutions and Development (4) IS 414 - Current Regional Issues in Southeast Asia (4) IS 415 - Islamist Trend in Middle East Politics (4) IS 419 - Special Topics II (4) IS 427 - Globalization, Poverty and Inequality (4) IS 435 - Special Topics in Latin American Studies (4) IS 439 - Social Movements in the Global South (4) IS 444 - Inside Diplomacy: A Practitioner's Perspective (4) IS 465 - China in the World: Chinese International Development and Politics (4) [...] International Development, Economic and Environmental Issues Concentration [...] IS 358 - Development, Aid and Difference in Historical Perspective (4) IS 365 - Surveillance Capitalism in Global Context (4) IS 373 - Global Environmental Politics (4) IS 410 - Politics, Institutions and Development (4) IS 414 - Current Regional Issues in Southeast Asia (4) IS 421 - The Economics of International Organizations and Development (4)
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IS 423 - International Development Practice and Ethics (4)

IS 427 - Globalization, Poverty and Inequality (4)

IS 429 - Special Topics III (4)

IS 435 - Special Topics in Latin American Studies (4)

IS 439 - Social Movements in the Global South (4)

IS 444 - Inside Diplomacy: A Practitioner's Perspective (4)

IS 465 - China in the World: Chinese International Development and Politics (4)

[...]

Name of Program or Name of Faculty International Studies Major, International Studies Honours
Rationale for change: Correcting error in lower division section of the calendar
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: International Studies Major, International Studies 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 Students complete a minimum of 18 15 lower division units, including IS 101 - Global Challenges of the 21st Century: An Introduction to International Studies (3) [...]
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Name of Program or Name of Faculty
Major in Philosophy
Rationale for change: PHIL 300 is an <i>introductory</i> course, aimed at students not in a philosophy program. Therefore, it doesn't make sense for students to use the course to satisfy <i>upper division</i> program requirements.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: Major in Philosophy

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**.

Please add this sentence to the bottom of the upper division requirements: PHIL 300 may not be used to satisfy the upper division requirements of this program.

Name of Program or Name of Faculty
Major in Philosophy with a Concentration in Law and Philosophy
Rationale for change: PHIL 300 is an <i>introductory</i> course, aimed at students not in a philosophy program. Therefore, it doesn't make sense for students to use the course to satisfy <i>upper division</i> program requirements.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: Major in Philosophy with a Concentration in Law and Philosophy

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**.

Please add this sentence to the end of the description of the upper division requirements: PHIL 300 may not be used to satisfy the upper division requirements of this program.

Name of Program or Name of Faculty
Philosophy Honours
Rationale for change:
PHIL 300 is an <i>introductory</i> course, aimed at students not in a philosophy program. Therefore, it doesn't make sense for students to use the course to satisfy <i>upper division</i> program requirements.
Effective term and year:
Fall 2022
The following program(s) will be affected by these changes:
Philosophy 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**.

Please add this sentence to the bottom of the upper division requirements: PHIL 300 may not be used to satisfy the upper division requirements of this program.
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Name of Program or Name of Faculty
Business, Philosophy and the Law Joint Major
Rationale for change:
PHIL 300 is an <i>introductory</i> course, aimed at students not in a philosophy program. Therefore, it doesn't make sense for students to use the course to satisfy <i>upper division</i> program requirements.
Effective term and year:
Fall 2022
The following program(s) will be affected by these changes:
Business, Philosophy and the Law Joint 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**.

Please add the following sentence to the bottom of the section "Philosophy Upper Division Requirements": PHIL 300 may not be used to satisfy the upper division requirements of this program.
--

Name of Program or Name of Faculty
Joint Major in Philosophy and Health Sciences
Rationale for change: PHIL 300 is an <i>introductory</i> course, aimed at students not in a philosophy program. Therefore, it doesn't make sense for students to use the course to satisfy <i>upper division</i> program requirements.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: Philosophy and Health Sciences Joint 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**.

At the bottom of the Philosophy Upper Division Requirements: and at least one 400 division philosophy course. PHIL 300 may not be used to satisfy the upper division requirements of this program.
--

Name of Program or Name of Faculty
Joint Major in Philosophy and Humanities
Rationale for change:
PHIL 300 is an <i>introductory</i> course, aimed at students not in a philosophy program. Therefore, it doesn't make sense for students to use the course to satisfy <i>upper division</i> program requirements.
Effective term and year:
Fall 2022
The following program(s) will be affected by these changes:
Philosophy and Humanities Joint 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**.

Philosophy Upper Division Requirements
21 philosophy units are required, not including PHIL 300.

Name of Program or Name of Faculty
Minor in Philosophy
Rationale for change:
PHIL 300 is an <i>introductory</i> course, aimed at students not in a philosophy program. Therefore, it doesn't make sense for students to use the course to satisfy <i>upper division</i> program requirements.
Effective term and year:
Fall 2022
The following program(s) will be affected by these changes:
Philosophy 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**.

Upper Division Requirements
Students must complete at least 15 philosophy upper division units, not including PHIL 300 , with a minimum philosophy cumulative grade point average (CGPA) and philosophy upper division grade point average (UDGPA) of 2.0 (calculated on all SFU PHIL courses).

Name of Program or Name of Faculty
Minor in Philosophy with a Concentration in Law and Philosophy
Rationale for change: PHIL 300 is an <i>introductory</i> course, aimed at students not in a philosophy program. Therefore, it doesn't make sense for students to use the course to satisfy <i>upper division</i> program requirements.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: Philosophy Minor, with a Concentration in Law and Philosophy

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**.

Please add this sentence to the end of the program requirements: PHIL 300 may not be used to satisfy the upper division requirements of this program.

Name of Program or Name of Faculty
Philosophy Double Minor
Rationale for change:
PHIL 300 is an <i>introductory</i> course, aimed at students not in a philosophy program. Therefore, it doesn't make sense for students to use the course to satisfy <i>upper division</i> program requirements.
Effective term and year:
Fall 2022
The following program(s) will be affected by these changes:
Philosophy Double 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**.

Please add the following sentence to the bottom of the upper division requirements: PHIL 300 may not be used to satisfy the upper division requirements of this program.

Name of Program or Name of Faculty
Philosophy Extended Minor
Rationale for change: PHIL 300 is an <i>introductory</i> course, aimed at students not in a philosophy program. Therefore, it doesn't make sense for students to use the course to satisfy <i>upper division</i> program requirements.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: Philosophy Extended 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**.

Upper Division Requirements Students must complete at least 15 philosophy upper division units, not including PHIL 300 , with a minimum philosophy cumulative grade point average (CGPA) and philosophy upper division grade point average (UDGPA) of 2.0 (calculated on all SFU PHIL courses).
--

Name of Program or Name of Faculty Beedie School of Business
Rationale for change: The Finance area and instructors reviewed course content and workload and determined that BUS 312, BUS 315 and BUS 413 would be 3-unit courses. BUS 417 unit reduction was from a redesign where it will be split into two 3-unit courses, BUS 417 Equity Security Analysis and (new) BUS 411 Fixed Income Securities for Fall 2022. These above changes will be effective/completed by Fall 2022. The reduction of units in the Finance concentration requirement created space for an additional 400 level course, namely BUS 413.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: • Business Honours • Business 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**.

Finance For this concentration, students complete all of BUS 312 - Introduction to Finance (3) BUS 315 - Investments (3) BUS 316 - Derivative Securities (3) BUS 413 - Corporate Finance (3) and two of BUS 410 - Financial Institutions (3) BUS 411 - Fixed Income Securities (3)

~~BUS 413 - Corporate Finance (3)~~

BUS 414 - Real Estate Investments (3)

BUS 415 - Applied Portfolio Management (3)

BUS 417 - Equity Security Analysis (3)

BUS 418 - International Financial Management (3)

BUS 419 - Advanced Derivative Securities (3)

[...]

Name of Program or Name of Faculty
Beedie School of Business – Bachelor of Business Administration
Rationale for change: Current calendar language indicates that 400 level requirements not completed at SFU could be used to satisfy the 400 level Business requirement. The intention of this language was to permit business courses completed on exchange worth fewer than 3 units to count towards 400 level business level requirements, however, it was not intended to permit courses that had been granted a waiver (0 units) to count towards this requirement.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: Major • Business Bachelor of Business Administration • Mechatronic Systems Engineering and Business Double Degree Program Bachelor of Applied Science and Bachelor of Business Administration Honours • Business Bachelor of Business Administration

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**.

Business Major BACHELOR OF BUSINESS ADMINISTRATION [...]
Upper Division Requirements In the last 60 units, students must complete a minimum of 36 upper division units in business courses, which must include the following: ▪ all core courses (see Core Courses below) ▪ an area of concentration (see Areas of Concentration below) ▪ 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 the area(s) of concentration. At least one of these 400 division BUS courses must be completed at Simon Fraser University.

Mechatronic Systems Engineering and Business Double Degree Program Major

BACHELOR OF APPLIED SCIENCE AND BACHELOR OF BUSINESS ADMINISTRATION

[...]

Business Concentration Elective Courses

Students must complete at least four upper division courses in a business concentration including at least three 400 division BUS courses, each worth a minimum of three units (excluding BUS 478 and practicum courses). **400 division BUS courses worth zero units cannot be used to fulfil this requirement.** At least one of these 400 division BUS courses must be completed at Simon Fraser University.

Business Honours

BACHELOR OF BUSINESS ADMINISTRATION

[...]

Upper Division Requirements

All upper division BUS courses have a prerequisite of 60 units. However, approved business majors may complete 300 division BUS courses upon completion of 45 units.

In the last 72 units, honours students must complete a minimum of 48 upper division units in business courses, 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 3 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 units of 400 division BUS coursework

Name of Program or Name of Faculty

Beedie School of Business – Bachelor of Business Administration

Rationale for change:

In response to the introduction of new courses in Economics, ECON 113 and 115. ECON 113 and 115 introduce students to many of the same concepts covered in ECON 103 and 105, and either set of courses will provide students with the foundational knowledge needed for a degree in business. Therefore, ECON 113 and 115 are being added as core lower division program requirements that students can take in lieu of ECON 103 and 105.

Effective term and year: Fall 2022

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

- Business Bachelor of Business Administration
- Mechatronic Systems Engineering and Business Double Degree Program Bachelor of Applied Science and Bachelor of Business Administration

Honours

- Business Bachelor of Business Administration

Joint Major

- Business and Communication Bachelor of Arts or Bachelor of Business Administration
- Business and Geography Bachelor of Arts or Bachelor of Business Administration
- Business and Psychology Bachelor of Arts or Bachelor of Business Administration
- Business, Philosophy and the Law Bachelor of Arts or Bachelor of Business Administration
- Information Systems in Business Administration and Computing Science Bachelor of Business Administration or Bachelor of Science
- Interactive Arts and Technology and Business Bachelor of Arts or Bachelor of Business Administration
- Interactive Arts and Technology and Business Bachelor of Science
- Molecular Biology and Biochemistry and Business Administration Bachelor of Science
- Sustainable Business Bachelor of Business Administration or Bachelor of Environment

Joint Honours

- Molecular Biology and Biochemistry and Business Administration Bachelor of Science

Minor

- Business Minor Program

Business Foundation Program

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**.

Business Major

Business Honours

Lower Division Requirements

[...]

and all of

BUS 100 - Professional Development - Launch (1)^{^^}

BUS 217W - Critical Thinking in Business (3)

BUS 237 - Introduction to Business Technology Management (3)

BUS 251 - Financial Accounting I (3)

BUS 254 - Managerial Accounting I (3)

BUS 272 - Behaviour in Organizations (3)

~~ECON 103 - Principles of Microeconomics (4)~~

~~ECON 105 - Principles of Macroeconomics (4)~~

and one of

BUS 232 - Data and Decisions I (4)

ECON 233 - Introduction to Economic Data and Statistics (4)

STAT 270 - Introduction to Probability and Statistics (3)

and one of

BUS 207 - Managerial Economics (3)

ECON 201 - Microeconomic Theory I: Competitive Behavior (4)

and one of

ECON 103 - Principles of Microeconomics (4)

ECON 113 - Introduction to Microeconomics (3)

and one of

ECON 105 - Principles of Macroeconomics (4)

ECON 115 - Introduction to Macroeconomics (3)

and one of

MATH 150 - Calculus I with Review (4)

MATH 151 - Calculus I (3)

MATH 154 - Calculus I for the Biological Sciences (3)

MATH 157 - Calculus I for the Social Sciences (3)

[...]

Mechatronic Systems Engineering and Business Double Degree Program Major

[...]

Students complete all of

BUS 251 - Financial Accounting I (3)

BUS 254 - Managerial Accounting I (3) **

BUS 272 - Behaviour in Organizations (3)

BUS 312 - Introduction to Finance (4)

BUS 343 - Introduction to Marketing (3)

BUS 360W - Business Communication (4) †

BUS 381 - Introduction to Human Resource Management (3)

BUS 393 - Commercial Law (3)

BUS 478 - Strategy (3) **

BUS 232 - Data and Decisions I (4)

CHEM 120 - General Chemistry I (3)

CMPT 130 - Introduction to Computer Programming I (3)

~~ECON 103 - Principles of Microeconomics (4)~~

~~ECON 105 - Principles of Macroeconomics (4)~~

MATH 151 - Calculus I (3)

MATH 152 - Calculus II (3)

MATH 232 - Applied Linear Algebra (3)

MATH 251 - Calculus III (3)

MATH 260 - Introduction to Ordinary Differential Equations (3)

MSE 100 - Engineering Graphics and Design (3)

MSE 101W - Process, Form, and Convention in Professional Genres (3)

MSE 102 - Applied Science, Technology and Society (3)

MSE 110 - Mechatronics Design I (3)

MSE 210 - Engineering Measurement and Data Analysis (3)

MSE 211 - Computational Methods for Engineers (3)

MSE 220 - Engineering Materials (3)

MSE 221 - Statics and Strength of Materials (4)

MSE 222 - Kinematics and Dynamics of Rigid Bodies and Mechanisms (4)
MSE 223 - Introduction to Fluid Mechanics (4)
MSE 250 - Electric Circuits (4)
MSE 251 - Electronic Circuits (4)
MSE 280 - Linear Systems (3)
MSE 310 - Sensors and Actuators (4)
MSE 311 - Introduction to Microelectromechanical Systems (3)
MSE 312 - Mechatronics Design II (4) *
MSE 320 - Machine Design (4)
MSE 321 - Engineering Thermodynamics and Heat Transfer (4)
MSE 352 - Digital Logic and Microcontrollers (4)
MSE 353 - Power Electronics and Electric Machinery (4)
MSE 380 - Systems Modeling and Simulation (3)
MSE 381 - Feedback Control Systems (4) *
MSE 402 - Engineering Ethics, Law, and Professional Practice (2)
MSE 410 - Capstone Design Technical Project I (3)
MSE 411 - Capstone Design Technical Project II (3)
PHYS 140 - Studio Physics - Mechanics and Modern Physics (4)
PHYS 141 - Studio Physics - Optics, Electricity and Magnetism (4)

and one of

ECON 103 - Principles of Microeconomics (4)

ECON 113 - Introduction to Microeconomics (3)

and one of

ECON 105 - Principles of Macroeconomics (4)

ECON 115 - Introduction to Macroeconomics (3)

(...)

Business and Communication Joint Major

Business and Geography Joint Major

Business Lower Division Requirements

Students **must** complete all of:

BUS 217W - Critical Thinking in Business (3)

BUS 237 - Introduction to Business Technology Management (3)

BUS 251 - Financial Accounting I (3)

BUS 254 - Managerial Accounting I (3)

BUS 272 - Behaviour in Organizations (3)

~~ECON 103 - Principles of Microeconomics (4)~~

~~ECON 105 - Principles of Macroeconomics (4)~~

and one of

BUS 232 - Data and Decisions I (4)

ECON 233 - Introduction to Economic Data and Statistics (4)

STAT 270 - Introduction to Probability and Statistics (3)

and one of

BUS 207 - Managerial Economics (3)

ECON 201 - Microeconomic Theory I: Competitive Behavior (4)

and one of

ECON 103 - Principles of Microeconomics (4)

ECON 113 - Introduction to Microeconomics (3)

and one of

ECON 105 - Principles of Macroeconomics (4)

ECON 115 - Introduction to Macroeconomics (3)

and one of

MATH 150 - Calculus I with Review (4)

MATH 151 - Calculus I (3)

MATH 154 - Calculus I for the Biological Sciences (3)

MATH 157 - Calculus I for the Social Sciences (3)

[...]

Business and Psychology Joint Major

Business Requirements

Lower Division Requirements

Students **must** complete all of:

BUS 217W - Critical Thinking in Business (3)

BUS 237 - Introduction to Business Technology Management (3)

BUS 251 - Financial Accounting I (3)

BUS 254 - Managerial Accounting I (3)

BUS 272 - Behaviour in Organizations (3)

~~ECON 103 - Principles of Microeconomics (4)~~

~~ECON 105 - Principles of Macroeconomics (4)~~

and one of

BUS 232 - Data and Decisions I (4)

PSYC 210 - Introduction to Data Analysis in Psychology (4)

STAT 270 - Introduction to Probability and Statistics (3)

and one of

ECON 103 - Principles of Microeconomics (4)

ECON 113 - Introduction to Microeconomics (3)

and one of

ECON 105 - Principles of Macroeconomics (4)

ECON 115 - Introduction to Macroeconomics (3)

and one of

MATH 150 - Calculus I with Review (4)

MATH 151 - Calculus I (3)

MATH 154 - Calculus I for the Biological Sciences (3)

MATH 157 - Calculus I for the Social Sciences (3)

[...]

Business, Philosophy, and the Law Joint Major

Business Lower Division Requirements

Students must complete all of:

BUS 217W - Critical Thinking in Business (3)

BUS 237 - Introduction to Business Technology Management (3)

BUS 251 - Financial Accounting I (3)

BUS 254 - Managerial Accounting I (3)

BUS 272 - Behaviour in Organizations (3)

~~ECON 103 - Principles of Microeconomics (4)~~

~~ECON 105 - Principles of Macroeconomics (4)~~

and one of

BUS 232 - Data and Decisions I (4)

ECON 233 - Introduction to Economic Data and Statistics (4)

STAT 270 - Introduction to Probability and Statistics (3)

and one of

ECON 103 - Principles of Microeconomics (4)

ECON 113 - Introduction to Microeconomics (3)

and one of

ECON 105 - Principles of Macroeconomics (4)

ECON 115 - Introduction to Macroeconomics (3)

and one of

MATH 150 - Calculus I with Review (4)

MATH 151 - Calculus I (3)

MATH 154 - Calculus I for the Biological Sciences (3)

MATH 157 - Calculus I for the Social Sciences (3)

Information Systems in Business Administration and Computing Science Joint Major

[...]

and all of

BUS 217W - Critical Thinking in Business (3)

BUS 251 - Financial Accounting I (3)

BUS 254 - Managerial Accounting I (3)

BUS 272 - Behaviour in Organizations (3)

CMPT 225 - Data Structures and Programming (3)

CMPT 276 - Introduction to Software Engineering (3)

CMPT 295 - Introduction to Computer Systems (3)

~~ECON 103 - Principles of Microeconomics (4)~~

~~ECON 105 - Principles of Macroeconomics (4)~~

MACM 101 - Discrete Mathematics I (3)

MACM 201 - Discrete Mathematics II (3)

and one of

ECON 103 - Principles of Microeconomics (4)

ECON 113 - Introduction to Microeconomics (3)

and one of

ECON 105 - Principles of Macroeconomics (4)

ECON 115 - Introduction to Macroeconomics (3)

[...]

Interactive Arts and Technology and Business Bachelor of Arts or Bachelor of Business Administration

Interactive Arts and Technology and Business Bachelor of Science

[...]

Students complete all of

BUS 207 - Managerial Economics (3)
BUS 217W - Critical Thinking in Business (3)
BUS 251 - Financial Accounting I (3)
BUS 254 - Managerial Accounting I (3)
BUS 272 - Behaviour in Organizations (3)
~~ECON 103 - Principles of Microeconomics (4)~~
~~ECON 105 - Principles of Macroeconomics (4)~~
MATH 157 - Calculus I for the Social Sciences (3)

and one of

ECON 103 - Principles of Microeconomics (4)
ECON 113 - Introduction to Microeconomics (3)

and one of

ECON 105 - Principles of Macroeconomics (4)
ECON 115 - Introduction to Macroeconomics (3)

and one of

BUS 232 - Data and Decisions I (4)
ECON 233 - Introduction to Economic Data and Statistics (4)
STAT 270 - Introduction to Probability and Statistics (3)

Molecular Biology and Biochemistry and Business Joint Major

Molecular Biology and Biochemistry and Business Joint Honours

Business Lower Division Requirements

Students **must** complete all of:

BUS 217W - Critical Thinking in Business (3)
BUS 251 - Financial Accounting I (3)
BUS 254 - Managerial Accounting I (3)
BUS 272 - Behaviour in Organizations (3)
~~ECON 103 - Principles of Microeconomics (4)~~

~~ECON 105 - Principles of Macroeconomics (4)~~

and one of

BUS 232 - Data and Decisions I (4)

ECON 233 - Introduction to Economic Data and Statistics (4)

STAT 270 - Introduction to Probability and Statistics (3)

and one of

ECON 103 - Principles of Microeconomics (4)

ECON 113 - Introduction to Microeconomics (3)

and one of

ECON 105 - Principles of Macroeconomics (4)

ECON 115 - Introduction to Macroeconomics (3)

Sustainable Business Joint Major

[...]

Students must complete all of

BUS 217W - Critical Thinking in Business (3)

BUS 251 - Financial Accounting I (3)

BUS 254 - Managerial Accounting I (3)

BUS 272 - Behaviour in Organizations (3)

~~ECON 103 - Principles of Microeconomics (4)~~

~~ECON 105 - Principles of Macroeconomics (4)~~

and one of

BUS 232 - Data and Decisions I (4)

ECON 233 - Introduction to Economic Data and Statistics (4)

GEOG 251 - Quantitative Geography (3)

STAT 270 - Introduction to Probability and Statistics (3)

and one of

BUS 237 - Introduction to Business Technology Management (3)

GEOG 255 - Geographical Information Science I (3)

and one of

ECON 103 - Principles of Microeconomics (4)

ECON 113 - Introduction to Microeconomics (3)

and one of

ECON 105 - Principles of Macroeconomics (4)

ECON 115 - Introduction to Macroeconomics (3)

and one of

MATH 150 - Calculus I with Review (4)

MATH 151 - Calculus I (3)

MATH 154 - Calculus I for the Biological Sciences (3)

MATH 157 - Calculus I for the Social Sciences (3)

Business Minor

Lower Division Requirements

Students complete all of

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)

~~ECON 103 - Principles of Microeconomics (4)~~

and one of

ECON 103 - Principles of Microeconomics (4)

ECON 113 - Introduction to Microeconomics (3)

and one of*

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)

Business Foundation Program

[...]

High School Stream

In their first term, students must complete

BUS 201 - Introduction to Business (3)

and are recommended to take two to four additional courses from the following

one of

~~ECON 103 - Principles of Microeconomics (4)~~

~~ECON 105 - Principles of Macroeconomics (4)~~

ECON 103-4 Principles of Microeconomics

ECON 113-3 Introduction to Microeconomics

or one of

ECON 105-4 Principles of Macroeconomics

ECON 115-3 Introduction to Macroeconomics

(...)

Name of Program or Name of Faculty Beedie School of Business – Bachelor of Business Administration
Rationale for change: With the addition of ECON 113 and 115 to the lower division requirements for Business programs, alongside changes to BUS 232, the courses required for admission to Business programs have been amended to reflect these changes.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: • Admission Requirements

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**.

Major Admission Requirements For admission to the major program within the Beedie School of Business, students will be competitively selected from one of the following four three streams. [...]
EXTERNAL TRANSFER COLLEGE OR UNIVERSITY TRANSFER – DIRECT FROM A RECOGNIZED POST-SECONDARY INSTITUTION A portion of the annual admission will be competitively selected from students transferring from recognized post-secondary institutions who meet the university admission requirements and have completed all of the eight lower division courses required for admission**. Students may also be required to submit a supplemental application for consideration. Of the required courses, a maximum of 2 of the 8 courses may be repeated one time each for admission; students should review course equivalencies as stated in the SFU Calendar. The supplemental application may include: An explanation of extra-curricular experience (i.e. in the areas of: athletics, arts, community leadership/involvement, work experience, and/or entrepreneurship) Short answer questions Online video interview

References, with at least one being academic in nature

INTERNAL TRANSFER (**CURRENT SFU STUDENTS**)– ALL COURSES AT SIMON FRASER UNIVERSITY OR A COMBINATION OF SIMON FRASER UNIVERSITY AND OTHER POST-SECONDARY COURSES

A portion of the annual admission will be competitively selected from students who have completed all of their courses at Simon Fraser University, including the eight lower division courses required for admission**. Students may also be required to submit a supplemental application for consideration. Of the required courses, a maximum of 2 of the 8 courses may be repeated one time each for admission; **students should review course equivalencies as stated in the SFU Calendar.**

The supplemental application may include:

An explanation of extra-curricular experience (i.e. in the areas of: athletics, arts, community leadership/involvement, work experience, and/or entrepreneurship)

Short answer questions

Online video interview

References, with at least one being academic in nature

Please note that students must meet minimum GPA requirements in order to be considered for admission to the Beedie School of Business. These requirements are listed on the **internal transfer** (update link to:

<https://beedie.sfu.ca/programs/undergraduate/bba-major/requirements?poe=Internal%20SFU%20transfer>) website. Prospective Students should also review and meet the Beedie School of Business grade requirements, which are listed [here](#).

**The eight lower division courses required for admission are as follows:

BUS 237-3 Introduction to Business Technology Management

BUS 251-3 Financial Accounting I

BUS 272-3 Behaviour in Organizations

~~ECON 103-4 Principles of Microeconomics~~

~~ECON 105-4 Principles of Macroeconomics~~

and one of:

BUS 232-4 Data and Decisions I

ECON 233-4 Introduction to Economics Data and Statistics

STAT 270-3 Introduction to Probability and Statistics

and one of:

ECON 103-4 Principles of Microeconomics
ECON 113-3 Introduction to Microeconomics

and one of:

ECON 105-4 Principles of Macroeconomics
ECON 115-3 Introduction to Macroeconomics

and one of:

MATH 150-4 Calculus I with Review
MATH 151-3 Calculus I
MATH 154-3 Calculus I for the Biological Sciences
MATH 157-3 Calculus I for the Social Sciences

[...]

APPLICATION PROCEDURES

Students applying directly from a secondary school or an external post-secondary institution should apply to the faculty at the same time that they apply for admission to the University.

Internal transfer applicants (**current SFU students**) should apply to the faculty during the term in which the admission requirements are completed.

Students not accepted upon initial application may reapply. Unsuccessful applicants are permitted to appeal.

APPLICATION DEADLINES

Visit <https://beedie.sfu.ca/programs/undergraduate/bba-major/how-to-apply> for application deadlines.

Joint Major Admission Requirements

All students wishing to pursue a joint major with the Beedie School of Business and another department/faculty must be admissible to both programs that comprise the joint major.

DIRECT FROM SECONDARY SCHOOL OR **COLLEGE/UNIVERSITY TRANSFER**
~~EXTERNAL TRANSFER~~ - DIRECT FROM A RECOGNIZED POST-SECONDARY
INSTITUTION

Students must first gain admission to the Beedie School of Business through the secondary school or the ~~external post-secondary institution~~ **College or University Transfer** application process described above. Once attending SFU, the student must satisfy the admission requirements listed for the non-Business portion of the joint major program in order to have their Business plan changed from a major to a joint major. Students should consult with both Beedie and the accompanying joint major department/faculty before applying to the joint major program.

COURSES COMPLETED AT SIMON FRASER UNIVERSITY ONLY, OR BOTH SFU AND ANOTHER POST-SECONDARY INSTITUTION(S)

Students admitted to an SFU faculty outside of the Beedie School of Business must be admissible to both the Beedie School of Business via internal transfer (as described in the major admission requirements above) and the other program that comprises that particular joint major. ~~(except in the case of the Psychology and Business Joint Major — Program).~~

When applying to Beedie, students will be competitively selected for admission based on the specific course requirements for the particular joint major program and ~~a supplemental application form~~ **may also be required to submit a supplemental application.** Students should consult both Beedie and the accompanying joint major department/faculty before applying to the joint major program.

Please note that students must meet minimum GPA requirements in order to be considered for admission to the Beedie School of Business. These requirements are listed on the internal transfer **website [Insert hyperlink to: <https://beedie.sfu.ca/programs/undergraduate/bba-major/requirements?poe=Internal%20SFU%20transfer>]**. Prospective students should also review and meet the Beedie School of Business grade requirements, which are listed in the SFU Calendar **here**.

For further details on the required courses for admission, please refer to the specific business joint major program requirements.

APPLICATION PROCEDURES

Students applying directly from a secondary school or an external post-secondary institution should apply to the faculty at the same time that they apply for admission to the University.

Internal transfer applicants **(current SFU students)** should apply to the faculty during the term in which the admission requirements are completed.

Students not accepted upon initial application may reapply. Unsuccessful applicants are permitted to appeal.

APPLICATION DEADLINES

Visit <https://beedie.sfu.ca/programs/undergraduate/bba-major/how-to-apply> for application deadlines.

Minor Admission Requirements

To be considered for admission to the minor, students must have completed **the five** each lower division required courses with a minimum C- grade. For admission to the minor program within the Beedie School of Business, ~~students will be selected competitively from one of the following two streams.~~

~~ALL COURSES COMPLETED AT SIMON FRASER UNIVERSITY~~

~~A portion of the annual admission to the minor program will be selected from students who have completed all of their required courses for admission at Simon Fraser University. Students~~ **students** will be selected competitively based on the grades achieved in the 5 lower division required courses^{***}. Of the required courses, a maximum of 2 of the 5 courses may be repeated **one time each** for admission; **students should review course equivalencies as stated in the SFU Calendar**. Note that a minimum overall SFU Business grade point average of 2.00 is also required for admission to the business minor program.

~~COURSES COMPLETED AT BOTH SIMON FRASER UNIVERSITY AND OTHER POST-SECONDARY INSTITUTION~~

~~A portion of the annual admission to the minor program will be selected from students who have completed some courses at Simon Fraser University and some at other post-secondary institutions, including the required lower division courses. Students will be selected competitively based on the grades achieved in the 5 lower division required courses^{***} earned at Simon Fraser University and other institutions. Of the required courses, a maximum of 2 of the 5 courses may be repeated for admission. Note that a minimum overall SFU Business course grade point average of 2.00 is also required for admission to the business minor program.~~

~~*** (strike through, leave one star)~~ **The** five lower division courses are as follows:

BUS 237-3 Introduction to Business Technology Management
BUS 251-3 Financial Accounting I
BUS 272-3 Behaviour in Organizations
ECON 103-4 Principles of Microeconomics

and one of:

ECON 103-4 Principles of Microeconomics

ECON 113-3 Introduction to Microeconomics

and one of ****

ECON 105-4 Principles of Macroeconomics

ECON 115-3 Introduction to Macroeconomics

ENGL 111W -3 Literary Classics in English

ENGL 112W -3 Literature Now

ENGL 113W -3 Literature and Performance

ENGL 114W -3 Language and Purpose

ENGL 115W -3 Literature and Culture

ENGL 199W -3 Writing to Persuade

PHIL 100W-3 Knowledge and Reality<sup>[L]
[SEP]</sup>

PHIL 105-3 Critical Thinking

PHIL 110-3 Introduction to Logic and Reasoning

PHIL 120W-3 Moral and Legal Problems

PHIL 150-3 Great Works in the History of Philosophy

WL 101W-3 Writing in World Literature

WL 103W-3 Early World Literatures

WL 104W-3 Modern World Literatures

WL 105W-3 World Literature Lab

**** 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 during the term in which the **five required** lower division ~~requirements~~ **courses** are completed. Students not accepted upon initial application may reapply. Unsuccessful applicants ~~may appeal through the faculty admissions appeals committee~~ **are permitted to appeal.**

Name of Program or Name of Faculty School of Communication
Rationale for change: CMNS 323W will be temporarily withdrawn. We would like to simplify the language for UD W requirement.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: CMNS 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**.

Option A: Honours Project

A minimum total of 60 upper division units is required, to include the following:

- nine upper division CMNS courses, at least six must be taken at SFU
- including one of the following upper division CMNS "W" courses:

~~CMNS 304W - Communication in Everyday Life (4)~~

~~CMNS 323W - Cultural Dimensions in Advertising (4)~~

~~CMNS 455W - Women and New Information Technologies (4)~~

[...]

Option B: Additional Upper Division Requirements

A minimum total of 60 upper division units is required, to include the following:

- eleven upper division CMNS courses, at least eight must be taken at SFU
- including one of the following upper division CMNS "W" courses:

~~CMNS 304W - Communication in Everyday Life (4)~~

~~CMNS 323W - Cultural Dimensions in Advertising (4)~~

~~CMNS 455W - Women and New Information Technologies (4)~~

and

CMNS 362 - Evaluation Methods for Applied Communication Research (6)

(...)

Name of Program or Name of Faculty School of Communication
Rationale for change: CMNS 323W will be temporarily withdrawn. We would like to simplify the language for UD W requirement.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: CMNS 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**.

Upper Division Requirements

A minimum total of 44 upper division units are required, to include the following:

- Seven upper division CMNS courses, at least five must be taken at SFU.
- Minimum total of 28 upper division units in CMNS.
- Including a minimum of two 400 level CMNS courses, at least one must be taken at SFU.
- Including one ~~of the following~~ upper division CMNS "W" courses

~~CMNS 304W - Communication in Everyday Life (4)~~

~~CMNS 323W - Cultural Dimensions in Advertising (4)~~

~~CMNS 455W - Women and New Information Technologies (4)~~

Directed study and field placement courses may not be used to meet this requirement.

Name of Program or Name of Faculty School of Communication
Rationale for change: CMNS 323W will be temporarily withdrawn. We would like to simplify the language for UD W requirement.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: Communication Second Degree

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**.

Upper Division Requirements

Students may enroll in upper division only when prerequisites have been completed.

Students complete a minimum of 28 upper division Communication units, including at least one of **upper division CMNS “W” course**.

~~CMNS 304W - Communication in Everyday Life (4)~~

~~CMNS 323W - Cultural Dimensions in Advertising (4)~~

~~CMNS 455W - Women and New Information Technologies (4)~~

and at least two regularly scheduled CMNS 400-level courses.

Directed study and field placement courses may not be used to meet this requirement.

Name of Program or Name of Faculty Sustainable Business Joint Major School of Resource and Environmental Management, Faculty of Environment
Rationale for change: The Sustainable Business Joint Major (SBJM) was originally designed by the Faculty of Environment (FENV) and introduced in the spring term of 2015 prior to the School of Resource and Environmental Management taking on the responsibility for the Resource and Environmental Management Major/Minor (REM) and Sustainable Development Minor/Certificate (SD) programs. As a result, the environment portion of the SBJM requirements consisted of a wide range of FENV courses that were available at the time. In the meantime, the School for Resource and Environmental Management has revised all its undergraduate programs and developed a considerable number of new REM, SD and Planning (PLAN) undergraduate courses. The proposed changes to the environment requirements of the SBJM aim to bring the program in line with the other REM undergraduate programs and take advantage of the new course offerings. The proposed requirements maintain the spirit of the original SBJM program but consist of a more focused blend of REM and SD core courses that have had substantial interest from business students in the past. We believe that this stronger focus creates a much more attractive and insightful program for prospective students. Furthermore, the stronger focus on REM, SD, and PLAN course helps to better distinguish the SBJM from the Joint Major with Geography, the second joint major between the Beedie School of Business and FENV. Additional minor adjustments (e.g., addition of section on residency requirements) have been made to increase consistency in the presentation of all REM programs.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: Sustainable Business Joint 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**.

Dean of Environment Office School of Resource and Environmental Management Faculty of Environment Business Beedie School of Business Sustainable Business Joint Major Bachelor of Business Administration or Bachelor of Environment

(...)

Admission Requirements

Admission Requirements - Beedie School of Business

Joint Major applicants should apply to Beedie through the internal transfer process, which is outlined [here](#), after completing 30 units, including the seven lower division courses required for admission, and must either already be accepted to the ~~Environment~~ **Sustainable Development** portion of the Joint Major or be eligible for admission that term. Students not accepted upon initial application may reapply. Unsuccessful applicants are permitted to appeal.

(...)

Admission Requirements – ~~Environment~~ **Sustainable Development**

Criteria

To be accepted into the joint major requires approval by the ~~Faculty of Environment~~ **School of Resource and Environmental Management** and admission to the Beedie School of Business. For further details, see above under Admission Requirements - Beedie School of Business.

For approval by the ~~Faculty of Environment~~ **School of Resource and Environmental Management**, students must meet with the ~~Faculty of Environment~~ **REM undergraduate advisor**.

Limitations **for the Beedie School of Business**

Students may complete either the Certificate in **Corporate** Environmental and Social Sustainability or the Sustainable Business joint major program, but not both the certificate and the joint major program.

Limitations for the School of Resource and Environmental Management

Students may complete either the Sustainable Development Minor or the Sustainable Business joint major program, but not both the minor and the joint major program.

(...)

Program Requirements

The joint major is comprised of lower and upper division Business core requirements, lower and upper division ~~Environment~~ **Sustainable Development** core requirements, cross-disciplinary focus courses, and a capstone course. Students will complete all upper and lower division requirements for both the Beedie School of Business and the Faculty of Environment*.

~~*Note: course overlap exists between the requirements for the Business and Environment portions of the joint major as, in many cases, students may choose either a Business or Environment course in order to satisfy a particular program requirement. Consequently, duplication of the list of the overlapping requirements exists under both areas.~~

Lower Division Requirements

(...)

Environment Sustainable Development Lower Division Requirements

~~Students complete a minimum of 21 units including~~

~~One of*~~

~~BUS 232—Data and Decisions I (4)~~

~~ECON 233—Introduction to Economic Data and Statistics (4)~~

~~GEOG 251—Quantitative Geography (3)~~

~~STAT 270—Introduction to Probability and Statistics (3)~~

~~and one of~~

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

~~GEOG 255—Geographical Information Science I (3)~~

~~and one of~~

~~BISC 101—General Biology (4)~~

~~BISC 102—General Biology (4)~~

~~EVSC 100—Introduction to Environmental Science (3)~~

~~GEOG 215—The Biosphere (3)~~

~~HSCI 100—Human Biology (3)~~

~~and one of~~

~~EASC 101—Dynamic Earth (3)~~

~~GEOG 111—Earth Systems (3)~~

~~and one of~~

~~ARCH 100—Ancient Peoples and Places (3)~~

~~GEOG 100—Our World: Introducing Human Geography (3)~~

~~and one of~~

~~GEOG 241—People, Place, Society (3)~~

~~GEOG 261—Encountering the City (3)~~

~~REM 221—Systems Thinking and the Environment (4)~~

~~SD 281—Introduction to Sustainability (3) or REM 281—Sustainable Communities, Sustainable World (3)~~

~~and one of~~

~~ARCH 286 – Cultural Heritage Management (3)~~
~~GEOG 221 – Economic Worlds (3)~~
~~HSCI 160 – Global Perspectives on Health (3)~~
~~REM 100 – Global Change (3)~~
~~REM 200 – Introduction to Resource and Environmental Management in Canada (3)~~

Students must complete all of

GEOG 111 - Earth Systems (3)
PLAN 100 - Introduction to Planning (3)
REM 100 - Global Change (3)
REM 200 - Introduction to Resource and Environmental Management in Canada (3)
REM 211 - Introduction to Applied Ecology (3)
REM 221 - Systems Thinking and the Environment (4)
SD 281 - Introduction to Sustainability (3)

and one of

INDG 101 - Introduction to Indigenous Studies (3)
REM 207 - Indigenous Peoples and Resource Management (3)

Upper Division Requirements

(...)

~~Environment~~ **Sustainable Development** Upper Division Requirements

Students must complete **all of**

~~one of~~

~~BUS 336 – Data and Decisions II (4)~~
~~GEOG 352 – Spatial Analysis (4)~~
~~GEOG 451 – Spatial Modeling (4)~~
~~REM 412 – Environmental Modeling (4)~~

~~and one of~~

~~BUS 303 – Business, Society and Ethics (3)~~
~~PHIL 328 – Environmental Philosophy (3)~~
~~REM 320W – Ethics and the Environment (3)~~

~~and one of~~

~~BUS 393 – Commercial Law (3)~~
~~REM 319 – Environmental and Planning Law (3)~~

~~And successful completion of the following upper division courses~~

REM 321 - Ecological Economics (4)
REM 356W - Environmental Policy (3)
SD 381 - Building Sustainable Communities (4)
SD 401 - Sustainable Development Studio (4)
SD 481 - Sustainability Governance and Leadership (4)
REM 495 - Resource and Environmental Management Capstone (4)

and two electives from the following

PLAN 300 - Methods for Planning Analysis (4)
PLAN 319 - Environmental and Planning Law (3)
PLAN 400 - Planning Theory and Policy Analysis (4)
PLAN 406 - Rural Planning and Development (4)
PLAN 407 - Indigenous Governance and Resource Relationships (4)
PLAN 408 - Environmental Planning for Sustainable Communities (4)
PLAN 443 - Public Engagement, Mediation and Conflict Resolution in Planning (4)
SD 412 - Technologies, Cultures and a Sustainable World (3) or ENSC 412 – Technologies, Cultures and a Sustainable World (3)
SD 499 - Special Topics in Sustainable Development (4)
REM 311 - Applied Ecology (3)
REM 319 - Environmental and Planning Law (3)
REM 320W- Ethics and the Environment (3)
REM 325 - Uncertainty, Risk and Decision Analysis (3)
REM 334 - Earth's Past Climates (4) or EVSC 334 – Earth's Past Climates (4)
REM 350 - Energy Management for a Sustainable Climate and Society (4)
REM 355 Sustainable Transportation Management (3)
REM 357 - Planning for Sustainable Food Systems (3)
REM 363 - Special Topics (3)
REM 370 - Global Resource Issues in Oceanography (4)
REM 375 - Ecology and Conservation of Coastal BC (3)
REM 388 - Wildlife Conservation (3)
REM 406 - Indigenous People and Co-management (4)
REM 407 - Indigenous Governance and Resource Relationships (4)
REM 412 - Environmental Modeling (4)
REM 423 - Research Methods in Fisheries Assessment (4)
REM 427 - Avalanche Risk Management (4)
REM 431 - Climate Change and Environmental Management (4)
REM 445 - Environmental Risk Assessment (4)
REM 446 - Environmental and Social Impact Assessment (4)
REM 452 - Environmental Education (8) or EDUC 452 Environmental Education (8)
REM 454 - Water Security (4)
REM 463 - Special Topics (3)

REM 471 - Forest Ecosystem Management (4)

and five of

~~ARCH 363—Landscape Archaeology (3)~~
~~ARCH 365—Archaeological Perspectives on Human Ecology (3)~~
~~ARCH 386—Archaeological Resource Management (3)~~
~~GEOG 321—Geographies of Global Capitalism (4)~~
~~GEOG 322—World Resources (4)~~
~~GEOG 323—Industrial Location (4)~~
~~GEOG 324—Geography of Transportation (4)~~
~~GEOG 325—Geographies of Consumption (4)~~
~~GEOG 327—Geography of Tourism (4)~~
~~GEOG 385—Food and the City (4)~~
~~REM 350—Energy Management for a Sustainable Climate and Society (4)~~
~~REM 356—Environmental Policy (3)~~
~~REM 370—Global Resource Issues in Oceanography (4)~~
~~REM 445—Environmental Risk Assessment (4)~~
~~REM 471—Forest Ecosystem Management (4)~~
~~SD 301—Building a Sustainable World: Concepts and Cases (4)~~
~~SD 381—Building Sustainable Communities (4) or REM 381—Building Sustainable Communities: Concepts and Cases (4)~~
~~SD 481—Sustainability Governance and Leadership (4) or REM 481—Sustainable Communities Leadership Lab (4)~~

and one of***

~~EVSC 491—Directed Study in Environmental Science (3)~~
~~ENV 495—Environmental Capstone (4)~~
~~SD 494—Project in Sustainable Development (4)~~

(...)

~~*** Students must meet with the Faculty of Environment advisor before selecting a capstone course.~~

~~Faculty of Environment Degree Requirements (BENV)~~

~~For all bachelor of environment (BEnv) programs (except the honours program), students complete 120 units, which includes~~

- ~~• at least 45 upper division units, of which at least 30 upper division units must be completed at Simon Fraser University~~
- ~~• satisfaction of the writing, quantitative, and breadth requirements~~
- ~~• an overall cumulative grade point average (CGPA) and upper division CGPA of at least 2.0, and a program CGPA and upper division CGPA of at least 2.0~~

(...)

Name of Program or Name of Faculty Biomedical Physiology and Kinesiology
Rationale for change: There is some overlap in the course requirements for the Professional Kinesiology Certificate (PKC) and the Occupational Ergonomics Certificate (OEC). SFU does not allow the same course to be counted for two different certificates. SFU will allow substitute courses within a certificate to allow two certificates with similar requirements to be taken. Students wishing to pursue both certificates in BPK should consult with the BPK Advisor for assistance in course planning. This statement is already included within the PKC.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: Occupational Ergonomics Certificate

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**.

Occupational Ergonomics ...
Admission Requirements ...
The certificate is normally completed within five years of admission to the certificate program. Units applied to one certificate may not be applied to another certificate or diploma. Students who are interested in completing both the Professional Kinesiology Certificate and the Occupational Ergonomics Certificate, should consult the BPK Advisor for assistance in course planning.

Name of Program or Name of Faculty Statistics major, Statistics honours
Rationale for change: - CMPT 102 has not been offered by the Faculty of Applied Science since Fall 2018 so it makes sense to remove it as a potential introductory programming course for students in the Statistics major/honours. - CMPT 129 has also been discontinued, leaving Statistics students with CMPT 125 as their second-level introductory programming course. - CMPT 127 is no longer required as a corequisite for CMPT 125.
Effective term and year: Fall 2022
The following program(s) will be affected by these changes: Statistics Major Statistics 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>Statistics Major</u> Lower Division Requirements Students complete the following courses: One Both of* CMPT 102 - Introduction to Scientific Computer Programming (3) CMPT 120 - Introduction to Computing Science and Programming I (3) ** and one of* CMPT 125 - Introduction to Computing Science and Programming II (3) *** CMPT 129 - Introduction to Computing Science and Programming for Mathematics and Statistics (3) and one of MATH 150 - Calculus I with Review (4) MATH 151 - Calculus I (3)

MATH 154 - Calculus I for the Biological Sciences (3)

MATH 157 - Calculus I for the Social Sciences (3)

and one of

MATH 152 - Calculus II (3)

MATH 155 - Calculus II for the Biological Sciences (3)

MATH 158 - Calculus II for the Social Sciences (3)

and

STAT 180 - Career Development Seminar for Statistics and Actuarial Science (1)

and one of

MATH 232 - Applied Linear Algebra (3)

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

and all of

MATH 251 - Calculus III (3)

STAT 240 - Introduction to Data Science (3)

STAT 260 - Introductory R for Data Science (2)

STAT 261 - Laboratory for Introductory R for Data Science (1)

STAT 270 - Introduction to Probability and Statistics (3)

STAT 285 - Intermediate Probability and Statistics (3)

* Students are strongly encouraged to complete this requirement in their first year.

Students with prior computing experience may be able to challenge CMPT 120.

~~** Recommended. Students with prior computing experience may be able to challenge CMPT 120.~~

~~*** CMPT 127 is a corequisite.~~

~~**** Recommended.~~

Statistics Honours

Lower Division Requirements

Students complete the following courses:

~~One~~**Both** of*

~~CMPT 102 - Introduction to Scientific Computer Programming (3)~~

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

~~and one of*~~

CMPT 125 - Introduction to Computing Science and Programming II (3) ***

~~CMPT 129 - Introduction to Computing Science and Programming for Mathematics and Statistics (3)~~

and one of

MATH 150 - Calculus I with Review (4)

MATH 151 - Calculus I (3)

MATH 154 - Calculus I for the Biological Sciences (3)

MATH 157 - Calculus I for the Social Sciences (3)

and one of

MATH 152 - Calculus II (3)

MATH 155 - Calculus II for the Biological Sciences (3)

MATH 158 - Calculus II for the Social Sciences (3)

and

STAT 180 - Career Development Seminar for Statistics and Actuarial Science (1)

and one of

MATH 232 - Applied Linear Algebra (3)

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

and all of

MATH 242 - Introduction to Analysis I (3)

MATH 251 - Calculus III (3)

STAT 240 - Introduction to Data Science (3)

STAT 260 - Introductory R for Data Science (2)

STAT 261 - Laboratory for Introductory R for Data Science (1)

STAT 270 - Introduction to Probability and Statistics (3)

STAT 285 - Intermediate Probability and Statistics (3)

* Students are strongly encouraged to complete this requirement in their first year.

Students with prior computing experience may be able to challenge CMPT 120.

~~** Recommended. Students with prior computing experience may be able to challenge CMPT 120.~~

~~*** CMPT 127 is a corequisite.~~

~~**** Recommended.~~