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**MEMORANDUM**

ATTENTION	Senate	DATE	April 9, 2021
FROM	Wade Parkhouse, Chair Senate Committee on Undergraduate Studies	PAGES	1/2
RE:	Program Changes		

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**For information:**

Acting under delegated authority at its meeting of April 8, 2021, SCUS approved the following curriculum revisions effective Spring 2022.

**a. Faculty of Applied Sciences (SCUS 21-39)**
**1. School of Sustainable Energy Engineering**

- (i) Changes to the list of elective courses for the Sustainable Energy Engineering Major

**b. Faculty of Communication, Art and Technology (SCUS 21-40)**
**1. School of Communication**

- (i) Admission and lower division requirement changes to the:

- Communication Major
- Communication Extended Minor

- (ii) Lower division requirement changes to the:

- Communication Honours
- Anthropology and Communication Joint Major
- Sociology and Communication Joint Major
- Business and Communication Joint Major
- Communication and Interactive Arts and Technology Joint Major (Bachelor of Arts)
- Communication and Interactive Arts and Technology Joint Major (Bachelor of Science)
- English and Communication Joint Major
- Communication Minor

- (iii) Admission requirement changes to the Communication Second Degree

**c. Faculty of Health Sciences (SCUS 21-41)**

- (i) Internal transfer and upper and lower division requirement changes to the:
- Health Sciences Bachelor of Arts Major
  - Health Sciences Bachelor of Arts Honours
  - Health Sciences Bachelor of Science Major
  - Health Sciences Bachelor of Science Honours
- (ii) Admission and upper and lower division requirement changes to the Philosophy and Health Sciences Joint Major
- (iii) Admission and program requirement changes to the Health Sciences Minor

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>.



### Calendar Entry Change

#### Name of Program or Name of Faculty

Rationale for change:

New elective course (SEE 464) was proposed by SEE and approved by SCUS. We would like to add the course to our calendar language, under the elective courses list. We also like to add our special topic courses (SEE 475-477) to the list of our elective courses.

Effective term and year: Spring 2022

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

Sustainable Energy Engineering 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**.

...

## Elective Courses

### Technical Elective Courses

Students must complete three technical elective courses from the following SEE Technical Elective list. With permission from the SEE undergraduate curriculum committee chair, students may replace one technical elective with either a directed study (SEE 486) or a special project laboratory course. Approved special topics courses may also be counted here.

ENSC 450 - VLSI Systems Design (4)

ENSC 495 - Introduction to Microelectronic Fabrication (4)

MSE 480 - Manufacturing Systems (3)

MSE 481 - Industrial Control Systems (3)

SEE 460 - Additive Manufacturing and Sustainable Design (3)

SEE 461 - Electronics Manufacturing and Assembly (3)

SEE 462 - Manufacturing Processes and Materials (3)

SEE 463 - Embedded Computer Systems (3)

**SEE 464 - Energy Systems Modeling for Buildings (3)**

**SEE 475 - Special Topics in Sustainable Energy Engineering (3)**

**SEE 476 - Special Topics in Sustainable Energy Engineering (3)**

**SEE 477 - Special Topics in Sustainable Energy Engineering (3)**

...



<b>Name of Program or Name of Faculty</b> Communication
<b>Rationale for change:</b> Introducing a new core first-year course (CMNS 120) as a CMNS lower division requirement. Simplifying CMNS lower division requirements so that students have more options for second-year courses.
<b>Effective term and year:</b> Spring 2022
<b>The following program(s) will be affected by these changes:</b> Communication 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**.

<p>Admission Requirements</p> <p>Applicants will have a minimum 2.50 Communication grade point average (CMNS GPA) upon completion of at least <del>2</del> <b>3</b> CMNS lower division courses at SFU, each with minimum C-grade, and a minimum 2.00 CGPA.</p> <p>[...]</p> <p>Program Requirements</p> <p>Students complete 120 units, as specified below.</p> <p>Lower Division Requirements</p> <p>Students complete <del>both</del> <b>all</b> of  CMNS 110 - Introduction to Communication Studies (3)  <b>CMNS 120 – Creativity and Communication Across Media (3)</b>  CMNS 130 - Communication and Social Change (3)</p> <p>and at least <del>six</del> <b>five</b> 200 level CMNS courses, including  CMNS 201W - Empirical Communication Research Methods (4) * or CMNS 201 - Empirical Communication Research Methods (4) *  CMNS 202 - Design and Method in Qualitative Communication Research (4)  <del>CMNS 253W - Introduction to Information Technology: The New Media (3)</del></p> <p><del>and one of</del></p>
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~~CMNS 220 – Understanding Television (3)~~  
~~CMNS 221 – Media and Popular Cultures (3)~~  
~~CMNS 223W – Advertising as Social Communication (3)~~  
~~CMNS 235 – News Media, the Public, and Democracy (3)~~

~~and one of~~

~~CMNS 230 – The Cultural Industries in Canada: Global Context (3)~~  
~~CMNS 240 – The Political Economy of Communication (3)~~

~~and one of~~

~~any 200 level CMNS course.~~

~~\* completion of this quantitative (Q) course satisfies part of the University's Q requirement.  
Upper Division Requirements~~



<b>Name of Program or Name of Faculty</b> Communication
<b>Rationale for change:</b> Introducing a new core first-year course (CMNS 120) as a CMNS lower division requirement. Simplifying CMNS lower division requirements so that students have more options for second-year courses.
<b>Effective term and year:</b> Spring 2022
<b>The following program(s) will be affected by these changes:</b> CMNS 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**.

<p>Admission Requirements</p> <p>Applicants will have a minimum 2.50 Communication grade point average (CMNS GPA) upon completion of at least <del>2</del> <b>3</b> CMNS lower division courses at SFU, each with minimum C-grade, and a minimum 2.00 CGPA.</p> <p>[...]</p> <p>Program Requirements</p> <p>Lower Division Requirements</p> <p>Students complete the same lower division requirements as for the school’s major program as follows.</p> <p>Students complete <del>both</del> <b>all</b> of  CMNS 110 - Introduction to Communication Studies (3)  <b>CMNS 120 – Creativity and Communication Across Media (3)</b>  CMNS 130 - Communication and Social Change (3)</p> <p>and at least <del>six</del> <b>five</b> <del>200 division level</del> <b>200 division level</b> CMNS courses, including  CMNS 201W - Empirical Communication Research Methods (4) * or CMNS 201 - Empirical Communication Research Methods (4) *  CMNS 202 - Design and Method in Qualitative Communication Research (4)  <del>CMNS 253W - Introduction to Information Technology: The New Media (3)</del></p> <p><del>and one of</del></p>
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~~CMNS 220 – Understanding Television (3)~~  
~~CMNS 221 – Media and Popular Cultures (3)~~  
~~CMNS 223W – Advertising as Social Communication (3)~~  
~~CMNS 235 – News Media, the Public, and Democracy (3)~~

~~and one of~~

~~CMNS 230 – The Cultural Industries in Canada: Global Context (3)~~  
~~CMNS 240 – The Political Economy of Communication (3)~~

~~and one of~~

~~any 200 division CMNS course.~~

~~\* completion of this quantitative (Q) course satisfies part of the University's Q requirement.  
Upper Division Requirements~~



<b>Name of Program or Name of Faculty</b> Communication
<b>Rationale for change:</b> Introducing a new core first-year course (CMNS 120) as a CMNS lower division requirement. Simplifying CMNS lower division requirements so that students have more options for second-year courses.
<b>Effective term and year:</b> Spring 2022
<b>The following program(s) will be affected by these changes:</b> Communication 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**.

<p>Program Requirements</p> <p>Students complete 132 units, as specified below.</p> <p>Lower Division Requirements</p> <p>Students complete <del>both</del> <b>all</b> of  CMNS 110 - Introduction to Communication Studies (3)  <b>CMNS 120 – Creativity and Communication Across Media (3)</b>  CMNS 130 - Communication and Social Change (3)</p> <p>and at least <del>six</del> <b>five</b> 200 level CMNS courses, including  CMNS 201W - Empirical Communication Research Methods (4) * or CMNS 201 - Empirical Communication Research Methods (4) *  CMNS 202 - Design and Method in Qualitative Communication Research (4)  <del>CMNS 253W - Introduction to Information Technology: The New Media (3)</del></p> <p><del>and one of</del>  <del>CMNS 220 - Understanding Television (3)</del>  <del>CMNS 221 - Media and Popular Cultures (3)</del>  <del>CMNS 223W - Advertising as Social Communication (3)</del>  <del>CMNS 235 - News Media, the Public, and Democracy (3)</del></p> <p><del>and one of</del></p>
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~~CMNS 230 - The Cultural Industries in Canada: Global Context (3)~~

~~CMNS 240 - The Political Economy of Communication (3)~~

~~and one of~~

~~any 200-level CMNS course.~~

\* completion of this quantitative (Q) course satisfies part of the University's Q requirement.  
Upper Division Requirements



<b>Name of Program or Name of Faculty</b> Communication
<b>Rationale for change:</b> Introducing a new core first-year course (CMNS 120) as a CMNS lower division requirement. Simplifying CMNS lower division requirements so that students have more options for second-year courses.
<b>Effective term and year:</b> Spring 2022
<b>The following program(s) will be affected by these changes:</b> Anthropology and Communication Joint Major Sociology and Communication 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**.

<p>Lower Division Communication Requirements</p> <p>Students complete <del>both</del> <b>all</b> of</p> <p>CMNS 110 - Introduction to Communication Studies (3)  <b>CMNS 120 – Creativity and Communication Across Media (3)</b>  CMNS 130 - Communication and Social Change (3)</p> <p>and at least <del>six</del> <b>five</b> 200 level CMNS courses, including</p> <p>CMNS 201W - Empirical Communication Research Methods (4) * or CMNS 201 - Empirical Communication Research Methods (4) *  CMNS 202 - Design and Method in Qualitative Communication Research (4)  <del>CMNS 253W - Introduction to Information Technology: The New Media (3)</del></p> <p><del>and one of</del></p> <p><del>CMNS 220 – Understanding Television (3)</del>  <del>CMNS 221 – Media and Popular Cultures (3)</del>  <del>CMNS 223W – Advertising as Social Communication (3)</del>  <del>CMNS 235 – News Media, the Public, and Democracy (3)</del></p> <p><del>and one of</del></p> <p><del>CMNS 230 – The Cultural Industries in Canada: Global Context (3)</del></p>
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~~CMNS 240—The Political Economy of Communication (3)~~

~~and one of~~

~~any 200 level CMNS course.~~

\* completion of this quantitative (Q) course satisfies part of the University's Q requirement.



<b>Name of Program or Name of Faculty</b> Communication
<b>Rationale for change:</b> Introducing a new core first-year course (CMNS 120) as a CMNS lower division requirement. Simplifying CMNS lower division requirements so that students have more options for second-year courses. This includes a temporary withdrawal of CMNS 223W - Advertising as Social Communication (3).
<b>Effective term and year:</b> Spring 2022
<b>The following program(s) will be affected by these changes:</b> Business and Communication 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**.

<p>Communication Lower Division Requirements</p> <p>Students complete <del>both</del> <b>all</b> of  CMNS 110 - Introduction to Communication Studies (3)  <b>CMNS 120 – Creativity and Communication Across Media (3)</b>  CMNS 130 - Communication and Social Change (3)</p> <p>and at least <del>six</del> <b>five</b> 200 level CMNS courses, including  CMNS 201W - Empirical Communication Research Methods (4) * or CMNS 201 - Empirical Communication Research Methods (4) *  CMNS 202 - Design and Method in Qualitative Communication Research (4)  CMNS 221 - Media and Popular Cultures (3)  <del>CMNS 223W – Advertising as Social Communication (3)</del></p> <p>and any</p> <p>two 200 level CMNS courses.</p> <p>* completion of this quantitative (Q) course satisfies part of the University's Q requirement.</p> <p>Upper Division Requirements</p>
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<b>Name of Program or Name of Faculty</b> Communication
<b>Rationale for change:</b> Introducing a new core first-year course (CMNS 120) as a CMNS lower division requirement. Simplifying CMNS lower division requirements so that students have more options for second-year courses. This includes a temporary withdrawal of CMNS 259 - Listening, Culture and Society (3).
<b>Effective term and year:</b> Spring 2022
<b>The following program(s) will be affected by these changes:</b> Communication and Interactive Arts and Technology Joint Major (Bachelor of Arts) Communication and Interactive Arts and Technology Joint Major (Bachelor of Science)

**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  Communication  Students complete <del>both</del> <b>all</b> of CMNS 110 - Introduction to Communication Studies (3) <b>CMNS 120 – Creativity and Communication Across Media (3)</b> CMNS 130 - Communication and Social Change (3)  and at least <del>six</del> <b>five</b> 200 level CMNS courses, including CMNS 201W - Empirical Communication Research Methods (4) * or CMNS 201 - Empirical Communication Research Methods (4) * CMNS 202 - Design and Method in Qualitative Communication Research (4) <del>CMNS 253W - Introduction to Information Technology: The New Media (3)</del>  <del>and one of</del> <del>CMNS 220 - Understanding Television (3)</del> <del>CMNS 221 - Media and Popular Cultures (3)</del> <del>CMNS 223W - Advertising as Social Communication (3)</del> <del>CMNS 235 - News Media, the Public, and Democracy (3)</del>  <del>and one of</del>
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~~CMNS 230 - The Cultural Industries in Canada: Global Context (3)~~

~~CMNS 240 - The Political Economy of Communication (3)~~

and one of

CMNS 226 - Digital Media Communication Techniques (3)

CMNS 258 History of Sound in Media (3)

~~CMNS 259 - Listening, Culture and Society (3)~~

\*completion of this quantitative (Q) course satisfies part of the University's Q requirement.



<b>Name of Program or Name of Faculty</b> Communication
<b>Rationale for change:</b> Introducing a new core first-year course (CMNS 120) as a CMNS lower division requirement. Simplifying CMNS lower division requirements so that students have more options for second-year courses.
<b>Effective term and year:</b> Spring 2022
<b>The following program(s) will be affected by these changes:</b> English and Communication 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**.

<p>Lower Division Communication Requirements</p> <p>Students complete <del>both</del> <b>all</b> of</p> <p>CMNS 110 - Introduction to Communication Studies (3)  <b>CMNS 120 – Creativity and Communication Across Media (3)</b>  CMNS 130 - Communication and Social Change (3)</p> <p>and at least <del>six</del> <b>five</b> 200 level CMNS courses, including</p> <p>CMNS 201W - Empirical Communication Research Methods (4) * or CMNS 201 - Empirical Communication Research Methods (4) *  CMNS 202 - Design and Method in Qualitative Communication Research (4)  <del>CMNS 253W - Introduction to Information Technology: The New Media (3)</del></p> <p><del>and one of</del></p> <p><del>CMNS 220 – Understanding Television (3)</del>  <del>CMNS 221 – Media and Popular Cultures (3)</del>  <del>CMNS 223W – Advertising as Social Communication (3)</del>  <del>CMNS 235 – News Media, the Public, and Democracy (3)</del></p> <p><del>and one of</del></p> <p><del>CMNS 230 - The Cultural Industries in Canada: Global Context (3)</del></p>
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~~CMNS 240—The Political Economy of Communication (3)~~

~~and one of~~

~~any 200 level CMNS course.~~

Students wishing to Joint Major in English and Communication are strongly advised to submit a formal declaration to this effect to the undergraduate advisors (in English and in Communication) upon completing all lower division requirements in both units.

\* completion of this quantitative (Q) course satisfies part of the University's Q requirement.





<b>Name of Program or Name of Faculty</b> Communication
<b>Rationale for change:</b> Introducing a new core first-year course (CMNS 120) as a CMNS lower division requirement.
<b>Effective term and year:</b> Spring 2022
<b>The following program(s) will be affected by these changes:</b> Communication 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, with a grade of C- or better, <del>both</del> <b>all</b> of CMNS 110 - Introduction to Communication Studies (3) <b>CMNS 120 – Creativity and Communication Across Media (3)</b> CMNS 130 - Communication and Social Change (3)
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<b>Name of Program or Name of Faculty</b> Communication
<b>Rationale for change:</b> Introducing a new core first-year course (CMNS 120) as a CMNS lower division requirement.
<b>Effective term and year:</b> Spring 2022
<b>The following program(s) will be affected by these changes:</b> CMNS 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**.

<p>Admission Requirements</p> <p>A student who already holds a bachelor’s degree(s) from an approved institution may complete a second or subsequent Bachelor of Arts in Communication.</p> <p>Internal University transfer requires a 2.50 or better Communication (CMNS) GPA, upon completion of at least <del>2</del> <b>3</b> CMNS lower division courses at SFU, each with minimum C-grade, and a minimum 2.00 CGPA.</p>
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## Faculty of Health Sciences

**Rationale for change:**

HSCI 304 had the number change to HSCI 204.  
HSCI 307 had the number change to HSCI 207.  
HSCI 330 had the number change to HSCI 230.  
Since these three courses were required upper division courses, they were made lower division requirements.

**Effective term and year:**

Spring 2022

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

Health Sciences Bachelor of Arts - 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**.

(...)

Internal Transfer

Internal transfer allows students to transfer, within Simon Fraser University, from one faculty to another. Students can apply for internal transfer into the Bachelor of Arts program in the Faculty of Health Sciences with a minimum CGPA of 2.5 and the following with a minimum grade of C:

HSCI 130

HSCI 100 or BISC 101, and

one of HSCI 204, **HSCI 207**, HSCI 210, HSCI 211, HSCI 212, HSCI 214, HSCI 216, **HSCI 230**

(...)

Lower Division Requirements

Students complete all of

HSCI 130 - Foundations of Health Science (4)

**HSCI 204 - Perspectives on Human Health and the Environment (3)**

**HSCI 207 - Research Methods in Health Sciences (3)**

**HSCI 230 - Evaluating Epidemiological Research (3)**

and one of

BISC 101 - General Biology (4)

HSCI 100 - Human Biology (3)

and one of

SA 101 - Introduction to Anthropology (A) (4)

SA 150 - Introduction to Sociology (S) (4)

and at least one additional HSCI 100 division course

and one of

STAT 201 - Statistics for the Life Sciences (3)

STAT 203 - Introduction to Statistics for the Social Sciences (3)

and at least four of

~~HSCI 204 - Perspectives on Human Health and the Environment (3)~~

HSCI 210 - Special Topics in Health Sciences (3)

HSCI 211 - Perspectives on Cancer, Cardiovascular, and Metabolic Diseases (3)

HSCI 212 - Perspectives on Infectious and Immunological Diseases (3)

HSCI 214 - Perspectives on Mental Health and Illness (3)

HSCI 216 - Ecological Determinants of Human Growth, Development and Health (3)

Upper Division Requirements

Students complete all of

HSCI 305 - The Canadian Health System (3)

~~HSCI 307 - Research Methods in Health Sciences (3)~~

HSCI 312 - Health Promotion: Individuals and Communities (3)

HSCI 319W - Applied Health Ethics (3)

~~HSCI 330 - Exploratory Strategies in Epidemiology (3)~~

HSCI 340 - Social Determinants of Health (3)

and one of

STAT 302 - Analysis of Experimental and Observational Data (3)

STAT 305 - Introduction to Biostatistical Methods for Health Sciences (3) \*

~~and at least 12 additional upper division HSCI units.~~

**and at least 30 additional upper division units, of which 16 must be HSCI units.**

(...)

## Faculty of Health Sciences

**Rationale for change:**

HSCI 304 had the number change to HSCI 204.

HSCI 307 had the number change to HSCI 207.

HSCI 330 had the number change to HSCI 230.

Since these three courses were required upper division courses, they were made lower division requirements.

**Effective term and year:**

Spring 2022

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

Health Sciences Bachelor of Arts - 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**.

Internal Transfer

Internal transfer allows students to transfer, within Simon Fraser University, from one faculty to another. Students can apply for internal transfer into the Faculty of Health Sciences with a minimum CGPA of 2.5, and completion of HSCI 130 and one of the following 200-level HSCI courses: HSCI 204-3, **HSCI 207-3**, HSCI 210-3, HSCI 211-3, HSCI 212-3, HSCI 214-3, ~~or~~ HSCI 216-3, **or HSCI 230-3** with a minimum grade of C- in these courses.

(...)

Lower Division Requirements

Students complete all of

HSCI 130 - Foundations of Health Science (4)

**HSCI 204 - Perspectives on Human Health and the Environment (3)**

**HSCI 207 - Research Methods in Health Sciences (3)**

**HSCI 230 - Evaluating Epidemiological Research (3)**

and one of

BISC 101 - General Biology (4)

HSCI 100 - Human Biology (3)

and one of

SA 101 - Introduction to Anthropology (A) (4)

SA 150 - Introduction to Sociology (S) (4)

and at least one additional HSCI 100 division course

and one of

STAT 201 - Statistics for the Life Sciences (3)

STAT 203 - Introduction to Statistics for the Social Sciences (3)

and at least four of

~~HSCI 204 - Perspectives on Human Health and the Environment (3)~~

HSCI 210 - Special Topics in Health Sciences (3)

HSCI 211 - Perspectives on Cancer, Cardiovascular, and Metabolic Diseases (3)

HSCI 212 - Perspectives on Infectious and Immunological Diseases (3)

HSCI 214 - Perspectives on Mental Health and Illness (3)

HSCI 216 - Ecological Determinants of Human Growth, Development and Health (3)

Upper Division Requirements

Students complete all of

HSCI 305 - The Canadian Health System (3)

~~HSCI 307 - Research Methods in Health Sciences (3)~~

HSCI 312 - Health Promotion: Individuals and Communities (3)

HSCI 319W - Applied Health Ethics (3)

~~HSCI 330 - Exploratory Strategies in Epidemiology (3)~~

HSCI 340 - Social Determinants of Health (3)

and one of

STAT 302 - Analysis of Experimental and Observational Data (3)

STAT 305 - Introduction to Biostatistical Methods for Health Sciences (3) \*

~~and at least 12 additional upper division HSCI units~~

**and at least 36 additional upper division units, of which 27 must be HSCI units**

and 9 to 12 units for a research-based honours thesis, carried out under the direction of a faculty supervisor including both of

HSCI 490 - Research Proposal (3)

HSCI 492 - Honours Research Thesis (3)

and one of

HSCI 491 - Independent Research (3)

HSCI 493 - Extended Independent Research (6)



(...)



<b>Name of Program or Name of Faculty</b> Faculty of Health Sciences
<b>Rationale for change:</b>  Primary rationale is improvement of stream level learning goals and better alignment of curriculum with existing pedagogical strengths among FHS faculty members.
<b>Effective term and year:</b> Spring 2022
<b>The following program(s) will be affected by these changes:</b> Health Sciences Bachelor of Science - Major Public Health and Data Concentration

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

<p>Internal Transfer</p> <p>Internal transfer allows students to transfer, within Simon Fraser University, from one faculty to another. Students can apply for internal transfer into the Bachelor of Science program in the Faculty of Health Sciences with a minimum CGPA of 2.5 and the following with a minimum grade of C:</p> <p>HSCI 130 BISC 101 or BISC 102 one of HSCI 204, <b>HSCI 207</b>, HSCI 210, HSCI 211, HSCI 212, HSCI 214, HSCI 216, <b>HSCI 230</b> and MATH 100 or equivalent. Students with only BC Pre-Calculus 12 require a grade of B or satisfactory grade on Calculus Readiness Test.</p> <p>(...)</p> <p>Program Requirements</p> <p>For the Bachelor of Science (BSc) Health Sciences program, students complete 120 units, which includes:</p> <ul style="list-style-type: none"> <li>• at least <del>45</del> <b>44</b> upper division units <b>including a minimum of 28 HSCI units</b></li> <li>• at least 60 units that must be completed at Simon Fraser University</li> <li>• satisfaction of the writing, quantitative, and breadth requirements</li> <li>• an overall cumulative grade point average (CGPA) and upper division CGPA of at least 2.0</li> </ul>
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(...)

~~Population and Quantitative Health Sciences Concentration Lower Division Requirements~~  
**Public Health and Data Concentration Lower Division Requirements**

Students complete all of:

BISC 101 – General biology (4)  
 BISC 102 – General biology (4)  
~~BISC 202 – Genetics (3)~~  
~~CHEM 121 – General Chemistry and Laboratory I (4)~~  
**CMPT 120 – Introduction to Computing Science and Programming I (3)**  
 HSCI 130 – Foundations of Health Science (4)  
~~MATH 154 – Calculus I for the Biological Sciences (3)~~  
**HSCI 206 – The Economics of Health and Healthcare (3)**  
**HSCI 207 – Research Methods in Health Sciences (3)**  
**HSCI 230 – Evaluating Epidemiological Research (3)**

~~and at least four of the following courses, which cannot include more than two ECON courses~~

~~CHEM 122 – General Chemistry II (2)~~  
~~CHEM 281 – Organic Chemistry and Laboratory I (4)~~  
~~CHEM 282 – Organic Chemistry II (2)~~  
~~CMPT 120 – Introduction to Computing Science and Programming I (3)~~  
~~ECON 102 – The World Economy (3)~~  
~~ECON 103 – Principles of Microeconomics (4)~~  
~~ECON 104 – Economics and Government (3)~~  
~~ECON 105 – Principles of Macroeconomics (4)~~  
~~MATH 155 – Calculus II for the Biological Sciences (3)~~  
~~PHYS 101 – Physics for the Life Sciences I (3)~~

**and one of:**

**MATH 151 – Calculus 1 (3)**  
**MATH 154 – Calculus 1 for the Biological Sciences (3)**  
**MATH 157 – Calculus 1 for the Social Sciences (3)**

**and one of:**

**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)**

and one of:

- STAT 201 – Statistics for the Life Sciences (3)
- STAT 203 – Introduction to Statistics for the Social Sciences (3)
- STAT 205 – Introduction to Statistics (3)**

and at least ~~three~~ **two** of:

- HSCI 204 – Perspectives on Health and the Environment (3)
- HSCI 210 – Special topics in Health Sciences (3)
- HSCI 211 – Perspectives on Cancer, Cardiovascular, and Metabolic Diseases (3)
- HSCI 212 – Perspectives on Infectious and Immunological Diseases (3)
- HSCI 214 – Perspectives on Mental Health and Illness (3)
- HSCI 216 – Ecological Determinants of Human Growth, Development and Health (3)

~~Population and Quantitative Health Sciences Concentration Upper Division Requirements~~  
**Public Health and Data Concentration Upper Division Requirements**

Students complete all of:

- HSCI 305 - The Canadian Health System (3)
- ~~HSCI 307 - Research Methods in Health Sciences (3)~~
- HSCI 319W - Applied Health Ethics (3)
- ~~HSCI 324 - Human Population Genetics and Evolution (3)~~
- ~~HSCI 330 - Exploratory Strategies in Epidemiology (3)~~
- HSCI 341 - Fundamental Epidemiological Concepts and Approaches (3)**
- HSCI 410 - Exploratory Data Analysis (3)**

and one of

- STAT 302 - Analysis of Experimental and Observational Data (3)
- STAT 305 - Introduction to Biostatistical Methods for Health Sciences (3)

~~and at least two of the following courses~~

- ~~HSCI 410 - Exploratory Data Analysis (3)~~
- ~~HSCI 416 - Health Services Research (4)~~
- ~~HSCI 424 - Strategic Applications of GIS in Health (4)~~
- ~~HSCI 432 - Seminar in Epidemiology (3)~~
- ~~HSCI 478 - Seminar in Molecular Epidemiology of Infectious Diseases (3)~~
- ~~HSCI 484 - Senior Seminar in Population Health Research (3)~~



~~and at least 12 additional upper division HSCI units~~

**and at least 24 additional upper division HSCI units**

(...)



<p><b>Name of Program or Name of Faculty</b> Faculty of Health Sciences</p>
<p><b>Rationale for change:</b></p> <p>Primary rationale is improvement of stream level learning goals and better alignment of curriculum with existing pedagogical strengths among FHS faculty members.</p>
<p><b>Effective term and year:</b> Spring 2022</p>
<p><b>The following program(s) will be affected by these changes:</b> Health Sciences Bachelor of Science - Honours Public Health and Data Concentration</p>

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

<p>Internal Transfer</p> <p>Internal transfer allows students to transfer, within Simon Fraser University, from one faculty to another. Students can apply for internal transfer into the Faculty of Health Sciences with a minimum CGPA of 3.0 and completion of HSCI 130-4 and one of the following 200-level HSCI courses: HSCI 204-3, <b>HSCI 207-3</b>, HSCI 210-3, HSCI 211-3, HSCI 212-3, HSCI 214-3, <del>or</del> HSCI 216-3, <b>or HSCI 230-3</b> with a minimum grade of C- in these courses.</p> <p>(...)</p> <p><del>Population and Quantitative Health Sciences Concentration Lower Division Requirements</del> <b>Public Health and Data Concentration Lower Division Requirements</b></p> <p>Students complete all of:</p> <p>BISC 101 – General biology (4) BISC 102 – General biology (4) <del>BISC 202 – Genetics (3)</del> <del>CHEM 121 – General Chemistry and Laboratory I (4)</del> <b>CMPT 120 – Introduction to Computing Science and Programming I (3)</b> HSCI 130 – Foundations of Health Science (4) <del>MATH 154 – Calculus I for the Biological Sciences (3)</del> <b>HSCI 206 – The Economics of Health and Healthcare (3)</b> <b>HSCI 207 – Research Methods in Health Sciences (3)</b></p>
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**HSCI 230 – Evaluating Epidemiological Research (3)**

and at least four of the following courses, which cannot include more than two ECON courses

~~CHEM 122 – General Chemistry II (2)~~  
~~CHEM 281 – Organic Chemistry and Laboratory I (4)~~  
~~CHEM 282 – Organic Chemistry II (2)~~  
~~CMPT 120 – Introduction to Computing Science and Programming I (3)~~  
~~ECON 102 – The World Economy (3)~~  
~~ECON 103 – Principles of Microeconomics (4)~~  
~~ECON 104 – Economics and Government (3)~~  
~~ECON 105 – Principles of Macroeconomics (4)~~  
~~MATH 155 – Calculus II for the Biological Sciences (3)~~  
~~PHYS 101 – Physics for the Life Sciences I (3)~~

and one of:

**MATH 151 – Calculus 1 (3)**  
**MATH 154 – Calculus 1 for the Biological Sciences (3)**  
**MATH 157 – Calculus 1 for the Social Sciences (3)**

and one of:

**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)**

and one of:

**STAT 201 – Statistics for the Life Sciences (3)**  
**STAT 203 – Introduction to Statistics for the Social Sciences (3)**  
**STAT 205 – Introduction to Statistics (3)**

and at least ~~three~~ **two** of:

**HSCI 204 – Perspectives on Health and the Environment (3)**  
**HSCI 210 – Special topics in Health Sciences (3)**  
**HSCI 211 – Perspectives on Cancer, Cardiovascular, and Metabolic Diseases (3)**  
**HSCI 212 – Perspectives on Infectious and Immunological Diseases (3)**  
**HSCI 214 – Perspectives on Mental Health and Illness (3)**  
**HSCI 216 – Ecological Determinants of Human Growth, Development and Health (3)**

~~Population and Quantitative Health Sciences Concentration Upper Division Requirements~~  
**Public Health and Data Concentration Upper Division Requirements**

Students ~~must~~ complete all of:

- HSCI 305 - The Canadian Health System (3)
- ~~HSCI 307 - Research Methods in Health Sciences (3)~~
- HSCI 319W - Applied Health Ethics (3)
- ~~HSCI 324 - Human Population Genetics and Evolution (3)~~
- ~~HSCI 330 - Exploratory Strategies in Epidemiology (3)~~
- HSCI 341 - Fundamental Epidemiological Concepts and Approaches (3)**
- HSCI 410 - Exploratory Data Analysis (3)**

and one of

- STAT 302 - Analysis of Experimental and Observational Data (3)
- STAT 305 - Introduction to Biostatistical Methods for Health Sciences (3)

~~and at least two of the following courses~~

- ~~HSCI 410 - Exploratory Data Analysis (3)~~
- ~~HSCI 416 - Health Services Research (4)~~
- ~~HSCI 424 - Strategic Applications of GIS in Health (4)~~
- ~~HSCI 432 - Seminar in Epidemiology (3)~~
- ~~HSCI 478 - Seminar in Molecular Epidemiology of Infectious Diseases (3)~~
- ~~HSCI 484 - Senior Seminar in Population Health Research (3)~~

~~and at least 12 additional upper division HSCI units~~

**and at least 24 additional upper division HSCI units**

(...)



**Faculty of Health Sciences**  
**Department of Philosophy, Faculty of Arts and Social Sciences**

<p><b>Rationale for change:</b> HSCI 307 had the number change to HSCI 207 HSCI 330 had the number change to HSCI 230</p>
<p><b>Effective term and year:</b> Spring 2022</p>
<p><b>The following program(s) will be affected by these changes:</b> Philosophy and Health Sciences Joint Major – Bachelor of Arts</p>

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

<p>(...) Admission Requirements</p> <p>To be admitted to the joint major in Philosophy and Health Sciences, students must complete (A) one of the following HSCI courses with a minimum grade of C-: HSCI 204-3, <b>HSCI 207-3</b>, HSCI 210-3, HSCI 211- 3, HSCI 212-3, HSCI 214-3, <del>or</del> HSCI 216-3, <b>or HSCI 230-3</b>; and (B) one of the following PHIL courses with a minimum grade of C-: PHIL 201 or PHIL 203.</p> <p>(...)</p> <p>Lower Division Health Sciences Requirements</p> <p>Students complete a minimum of 15 units, including <del>all</del> both of</p> <p>HSCI 100 - Human Biology (3) HSCI 130 - Foundations of Health Science (4)</p> <p>and at least <del>two</del> <b>three</b> of</p> <p>HSCI 204 - Perspectives on Human Health and the Environment (3) <b>HSCI 207 - Research Methods in Health Sciences (3)</b> HSCI 210 - Special Topics in Health Sciences (3) HSCI 211 - Perspectives on Cancer, Cardiovascular, and Metabolic Diseases (3)</p>
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HSCI 212 - Perspectives on Infectious and Immunological Diseases (3)  
 HSCI 214 - Perspectives on Mental Health and Illness (3)  
 HSCI 216 - Ecological Determinants of Human Growth, Development and Health (3)  
**HSCI 230 - Evaluating Epidemiological Research (3)**

and one of

STAT 201 - Statistics for the Life Sciences (3)  
 STAT 203 - Introduction to Statistics for the Social Sciences (3)

(...)

Upper Division Health Sciences Requirements

Students complete a minimum of 21 upper division health sciences units, including all of

HSCI 305 - The Canadian Health System (3)  
 HSCI 319W - Applied Health Ethics (3)  
 HSCI 327 - Global Health Ethics (3)  
~~HSCI 330 - Exploratory Strategies in Epidemiology (3)~~  
 HSCI 340 - Social Determinants of Health (3)  
 HSCI 488 - Directed Studies in Health Sciences (3)

and one of

STAT 302 - Analysis of Experimental and Observational Data (3)  
 STAT 305 - Introduction to Biostatistical Methods for Health Sciences (3) \*

\* Recommended

(...)



## Faculty of Health Sciences

**Rationale for change:**

HSCI 304 had the number change to HSCI 204.

HSCI 307 had the number change to HSCI 207.

HSCI 330 had the number change to HSCI 230.

Since these three courses were required upper division courses, they were made lower division requirements.

**Effective term and year:**

Spring 2022

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

Health Sciences 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

Students can apply for admission into the Health Sciences minor with a minimum CGPA of 2.5 and the following with a minimum grade of C:

HSCI 130

BISC 101 or HSCI 100

one of HSCI 204, **HSCI 207**, HSCI 210, HSCI 211, HSCI 212, HSCI 214, HSCI 216, **HSCI 230**

(...)

Program Requirements

Students complete a minimum total of 31 units, including

HSCI 130 - Foundations of Health Science (4)

and one of

BISC 101 - General Biology (4)

HSCI 100 - Human Biology (3)

and all of

**HSCI 204 - Perspectives on Human Health and the Environment (3)**

**HSCI 207 - Research Methods in Health Sciences (3)**

**HSCI 230 - Evaluating Epidemiological Research (3)**

and ~~three~~ **two** of

HSCI 204 - Perspectives on Human Health and the Environment (3)

HSCI 210 - Special Topics in Health Sciences (3)

HSCI 211 - Perspectives on Cancer, Cardiovascular, and Metabolic Diseases (3)

HSCI 212 - Perspectives on Infectious and Immunological Diseases (3)

HSCI 214 - Perspectives on Mental Health and Illness (3)

HSCI 216 - Ecological Determinants of Human Growth, Development and Health (3)

and at least 15 upper division HSCI units, of which at least seven upper division units used toward the minor must have been completed in Simon Fraser University courses.