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**MEMORANDUM**

<b>ATTENTION</b>	Senate	<b>DATE</b>	February 5, 2016
<b>FROM</b>	Gordon Myers, Chair Senate Committee on Undergraduate Studies	<b>PAGES</b>	1/1
<b>RE:</b>	Faculty of Science (SCUS 16-06)		

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**For information:**

Acting under delegated authority at its meeting of February 4, 2016 SCUS approved the following curriculum revisions effective Fall 2016.

1. Department of Physics (SCUS 16-06a)

- (i) Description and prerequisite change for PHYS 231, 233
- (ii) Course number and credit change for PHYS 433 and W designation

2. Department of Biological Sciences (SCUS 16-06b)

- (i) Prerequisite change to BISC 101 and 102

3. Department of Molecular Biology and Biochemistry (SCUS 16-06c)

- (i) Credit and description change for MBB 432

4. Department of Earth Sciences (SCUS 16-06d)

- (i) Prerequisite change for EASC 401

5. Department of Chemistry (SCUS 16-06e)

- (i) Prerequisite change for CHEM 266



**FACULTY OF SCIENCE**  
Dean of Science

**SCUS 16-06**

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**MEMORANDUM**

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<b>ATTENTION</b>	Senate Committee for Undergraduate Studies, SFU	<b>DATE</b>	January 22, 2016
<b>FROM</b>	Carl Lowenberger, Chair, Science UCC		
<b>RE:</b>	Submission of Undergraduate Curriculum Business from the Faculty of Science for inclusion on the Agenda of the February 2016 SCUS Meeting		

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**PHYSICS**

Motion 2: PHYS 231 - Existing course change - description  
Motion 3: PHYS 233 - Existing course change - prerequisite  
Motion 4: PHYS 433 - Existing course change – units

**BIOLOGY**

Motion 1: BISC 101 – Existing course change - prerequisite  
Motion 2: BISC 102 – Existing course change - prerequisite

**MOLECULAR BIOLOGY AND BIOCHEMISTRY**

Motion 1: MBB 432 - Existing course change – units and description

**EARTH SCIENCES**

Motion 1: EASC 401 - Existing course change – prerequisite

**CHEMISTRY**

Motion 1: CHEM 266 – Existing course change - prerequisite

COURSE SUBJECT  NUMBER  TITLE

**INSTRUCTIONS (OVERALL):**

1. Using Microsoft Word draft changes using the following guideline. Paste in box below.
2. Rationale must be included. If more space is needed than provided below, please use the provided text box on page 2 of this document.
3. Indicate term = Fall, Spring, Summer

**TYPE OF CHANGES RECOMMENDED**

Please type 'X' for the appropriate revision(s):

Course number	Credit	Title	X	Description	X	Prerequisite	Deletion
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**WORDING/DESCRIPTION EDITS**

1. Indicate deleted or changed text using striketrough.
2. Indicate added or new text using underline.
3. Equivalent courses: preclusion statement should read:
  - a. Students with credit for x cannot take y for further credit.

PHYS 231 - Physics Laboratory III (3)

Introduction to modern techniques in experimental physics, including computer-aided data acquisition, electronics, control theory, and statistical data analysis.  
~~Introductory physics laboratory with experiments chosen from mechanics, heat, optics, electricity, magnetism, properties of matter, atomic and nuclear physics, along with lectures on the use of computers for data acquisition and data analysis in the physics laboratory.~~  
 Prerequisite: PHYS 141 or 133 or 130. ~~Recommended~~  
 eCo-requisite: PHYS 255. Quantitative.

**SAMPLE**

POL 223 ~~Canadian-American~~ Political Economy (3)

~~An introductory study of America's~~ Canada's political economy, stressing the interrelated nature of Canada's economic and political life. ~~The course~~ Focuses on current economic problems and policies, taking into account the geographical, historical and political environments. Topics include the resource and industrial structures, research and development, the public sector, fiscal and monetary policy, the role of the state, trade and foreign ownership, energy, regional disparity, corporate concentration and the political economy of federalism.

~~This course is identical to CNS 280 and students cannot take both courses for credit.~~  
Students with credit for CNS 280 cannot take POL 223 for further credit.

~~Recommended Pre-requisite:~~ POL 100 or 101W.  
 Breadth - Social Sciences.

**RATIONALE**

If more space is needed, please use the provided text box on page 2 of this document

The new description more accurately reflects the course's focus on techniques in experimental Physics. The list of possible experimental topics is a vague list spanning nearly all fields in Physics and is removed. PHYS 231 and 255 overlap in material, and students without PHYS 255 are at a disadvantage; thus the recommended corequisite is changed to a required corequisite.

**EFFECTIVE TERM AND YEAR, FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

Fall 2016

COURSE SUBJECT  NUMBER  TITLE

**INSTRUCTIONS (OVERALL):**

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3. Indicate term = Fall, Spring, Summer

**TYPE OF CHANGES RECOMMENDED**

Please type 'X' for the appropriate revision(s):

<input type="checkbox"/>	Course number	<input type="checkbox"/>	Credit	<input type="checkbox"/>	Title	<input checked="" type="checkbox"/>	X	<input type="checkbox"/>	Description	<input checked="" type="checkbox"/>	X	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>	<input type="checkbox"/>	Deletion
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**WORDING/DESCRIPTION EDITS**

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PHYS 233 - Physics Laboratory IV (2)

Statistical data analysis, experimental design and scientific communication, studied in the context of experiments spanning a range of physical systems. Experiments chosen from among mechanics, heat, optics, electricity, magnetism, properties of matter, atomic and nuclear physics. Engineering Science students will do a selected set of experiments.

Prerequisite: PHYS 231 or ENSC ~~220~~ 280.

Quantitative.

**SAMPLE**

POL 223 ~~Canadian-American~~ Political Economy (3)

~~An introductory study of America's~~ Canada's political economy, stressing the interrelated nature of Canada's economic and political life. ~~The course~~ Focuses on current economic problems and policies, taking into account the geographical, historical and political environments. Topics include the resource and industrial structures, research and development, the public sector, fiscal and monetary policy, the role of the state, trade and foreign ownership, energy, regional disparity, corporate concentration and the political economy of federalism.

~~This course is identical to CNS 280 and students cannot take both courses for credit.~~

Students with credit for CNS 280 cannot take POL 223 for further credit.

~~Recommended Pre-requisite:~~ POL 100 or 101W.

Breadth - Social Sciences.

**RATIONALE**

If more space is needed, please use the provided text box on page 2 of this document

The new description more accurately reflects the course's focus on experimental Physics design and analysis skills. The list of possible experimental topics is a vague list spanning nearly all fields in Physics and is removed, and all students do a selected set of experiments, with some flexibility to choose based on their own interests. Lastly, ENSC 220 is a circuit design course, while ENSC 280's focus on experimentation and data analysis provides better preparation.

**EFFECTIVE TERM AND YEAR, FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

SPRING 2017

COURSE SUBJECT  NUMBER  TITLE

**INSTRUCTIONS (OVERALL):**

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**TYPE OF CHANGES RECOMMENDED**

Please type 'X' for the appropriate revision(s):

<input checked="" type="checkbox"/>	Course number	<input checked="" type="checkbox"/>	Credit	<input type="checkbox"/>	Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>	Deletion
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3. Equivalent courses: preclusion statement should read:
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PHYS 433W - Biophysics Laboratory ~~(3)~~ (4)

**SAMPLE**

POL 223 ~~Canadian-American~~ Political Economy (3)

~~An introductory study of America's~~ Canada's political economy, stressing the interrelated nature of Canada's economic and political life. ~~The course focuses on~~ current economic problems and policies, taking into account the geographical, historical and political environments. Topics include the resource and industrial structures, research and development, the public sector, fiscal and monetary policy, the role of the state, trade and foreign ownership, energy, regional disparity, corporate concentration and the political economy of federalism.

~~This course is identical to CNS 280 and students cannot take both courses for credit.~~

Students with credit for CNS 280 cannot take POL 223 for further credit.

~~Recommended Pre-requisite:~~ POL 100 or 101W.

Breadth – Social Sciences.

**RATIONALE**

If more space is needed, please use the provided text box on page 2 of this document

We have obtained W certification for 433-3. A unit of lecture (1hr/wk) is needed to add instruction on writing and time for discussion and feedback on top of the 3 units of lab time (6 hrs/wk)

**EFFECTIVE TERM AND YEAR, FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

Fall 2016



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**MEMORANDUM**

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**ATTENTION** Carl Lowenberger, Associate Dean,  
Faculty of Science

**DATE** January 5, 2016

**FROM** Susan Rhodes, Director  
University Curriculum & Institutional Liaison

**PAGES** 1

**RE:** PHYS W designation approval

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The University Curriculum Office has approved **W** designation for the following Physics course, effective Fall 2016 (1167):

PHYS 433 Biophysics Laboratory

Please forward this memo to your Faculty UCC and then on to SCUS for further approval.

cc: Jeffery McGuirk, UGC Chair, Department of Physics



DEPARTMENT OF  
BIOLOGICAL SCIENCES

Erin Barley  
Lecturer  
Chair, DUCC  
Dept Biological Sciences

Jan 8, 2016

ATTENTION: Carl Lowenberger,  
Associate Dean, Faculty of Science

Simon Fraser University  
Department of Biological  
Sciences  
8888 University Drive,  
Burnaby, BC, Canada  
V5A 1S6

**Motion 1:** To change the pre-requisites for BISC 101 and BISC 102 such that students using BISC 113 as a pre-req will require a minimum grade of C+ (increased from C-).

TEL: 778-782-4972  
ebarley@sfu.ca

**Rationale.** BISC 113 The Biology of Everyday Life is offered through CODE (The Center for Online Distance Education), and was recently re-developed. The course provides an online option for students looking to complete a Breadth Science course. The increase in grade requirement from C- to C+ brings BISC 113 in line with HSCI 100. Both serve as adequate pre-reqs for BISC 101/102, but provide less in-depth coverage than BISC 100 and do not include a lab.

Sincerely,  
Erin Barley

COURSE SUBJECT  NUMBER  TITLE

**INSTRUCTIONS (OVERALL):**

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3. Indicate term = Fall, Spring, Summer

**TYPE OF CHANGES RECOMMENDED**

Please type 'X' for the appropriate revision(s):

Course number	Credit	Title	Description	X	Prerequisite	Deletion
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**WORDING/DESCRIPTION EDITS**

1. Indicate deleted or changed text using strikethrough.
2. Indicate added or new text using underline.
3. Equivalent courses: preclusion statement should read:
  - a. Students with credit for x cannot take y for further credit.

Prerequisite: High school biology 12 (or equivalent) with a C grade or better, or BISC 100 with C- or better, or BISC 113 with ~~C-~~ C+ or better, or HSCI 100 with C+ or better.

**SAMPLE**

POL 223 ~~Canadian-American~~ Political Economy (3)

~~An introductory study of America's~~ Canada's political economy, stressing the interrelated nature of Canada's economic and political life. ~~The course~~ Focuses on current economic problems and policies, taking into account the geographical, historical and political environments. Topics include the resource and industrial structures, research and development, the public sector, fiscal and monetary policy, the role of the state, trade and foreign ownership, energy, regional disparity, corporate concentration and the political economy of federalism.

~~This course is identical to CNS 280 and students cannot take both courses for credit.~~

Students with credit for CNS 280 cannot take POL 223 for further credit.

~~Recommended Pre-requisite:~~ POL 100 or 101W.

Breadth – Social Sciences.

**RATIONALE**

If more space is needed, please use the provided text box on page 2 of this document

Increasing the grade for BISC 113 from C- to C+ brings it in line with HSCI 100. BISC 100 is unchanged at C-, as it has a lab and covers material in greater depth.

**EFFECTIVE TERM AND YEAR, FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)

Fall 2016



COURSE SUBJECT  NUMBER  TITLE **INSTRUCTIONS (OVERALL):**

1. Using Microsoft Word draft changes using the following guideline. Paste in box below.
2. Rationale must be included. If more space is needed than provided below, please use the provided text box on page 2 of this document.
3. Indicate term = Fall, Spring, Summer

**TYPE OF CHANGES RECOMMENDED**

Please type 'X' for the appropriate revision(s):

Course number	Credit	Title	Description	X	Prerequisite	Deletion
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1. Indicate deleted or changed text using strikethrough.
2. Indicate added or new text using underline.
3. Equivalent courses: preclusion statement should read:
  - a. Students with credit for x cannot take y for further credit.

Prerequisite: High school biology 12 (or equivalent) with a C grade or better, or BISC 100 with C- or better, or BISC 113 with ~~C-~~ C+ or better, or HSCI 100 with C+ or better.

**SAMPLE**POL 223 ~~Canadian-American~~ Political Economy (3)

~~An introductory study of America's~~ Canada's political economy, stressing the interrelated nature of Canada's economic and political life. ~~The course~~ Focuses on current economic problems and policies, taking into account the geographical, historical and political environments. Topics include the resource and industrial structures, research and development, the public sector, fiscal and monetary policy, the role of the state, trade and foreign ownership, energy, regional disparity, corporate concentration and the political economy of federalism.

~~This course is identical to CNS 280 and students cannot take both courses for credit.~~

Students with credit for CNS 280 cannot take POL 223 for further credit.

~~Recommended Pre-requisite:~~ POL 100 or 101W.

Breadth – Social Sciences.

**RATIONALE**

If more space is needed, please use the provided text box on page 2 of this document

Increasing the grade for BISC 113 from C- to C+ brings it in line with HSCI 100. BISC 100 is unchanged at C-, as it has a lab and covers material in greater depth.

**EFFECTIVE TERM AND YEAR, FOR CHANGES**

Fall, Spring, Summer and year (please enter in textbox)



MEMO

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ATTENTION **Carl Loweberger, Associate Dean of Science** | TEL  
BB  
FROM **Ingrid Northwood, MBB undergraduate Curriculum Committee  
Chair**

RE **Proposed agenda item**

DATE **January 25, 2016**

At its meeting of January 8, 2016, the MBB department approved the following curricular program change:

1: MBB 432 Advanced Molecular Biology Techniques. A change in course description and number of units (from 3 to 4)

rationale: MBB 432 has been updated with respect to techniques used so the description has been modified slightly. Because the course will continue to evolve and employ cutting edge laboratory techniques, a general description of the experimental approach of the lab has been given and specific techniques have been eliminated. The lab was successfully beta-tested in fall of 2015 and given the increased amount of time students are now required to spend in lab the units have been increased from 3 to 4

Please place these proposals on the agenda of the next meeting of the Faculty of Science Undergraduate Studies Curriculum Committee

COURSE SUBJECT	MBB	NUMBER	432	TITLE	Advanced Techniques in Molecular Biology
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INSTRUCTIONS (OVERALL):

1. Using Microsoft Word draft changes using the following guideline. Paste in box below.
2. Rationale must be included. If more space is needed than provided below, please use the provided text box on page 2 of this document.
3. Indicate term = Fall, Spring, Summer

TYPE OF CHANGES RECOMMENDED

Please type 'X' for the appropriate revision(s):

Course number	x	Credit	Title	x	Description	Prerequisite	Deletion
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WORDING/DESCRIPTION EDITS

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3. Equivalent courses: preclusion statement should read:
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**MBB 432 Advanced Molecular Biology Techniques ~~(3)~~ (4)**  
 Laboratory with accompanying lectures designed to give practical experience in advanced contemporary molecular biology techniques. ~~Lab exercises will include site directed mutagenesis, preparation and characterization of GST fusion proteins, construction of transgenes and their expression in transgenic organisms, and use of the yeast two hybrid assay to study protein-protein interactions.~~  
Projects will involve recombinant gene and protein manipulations to investigate the dynamics of proteins within living cells.  
Prerequisite: MBB 309W, MBB 308 and MBB 331, with a minimum grade of C, or permission of instructor.

**SAMPLE**

POL 223 ~~Canadian~~ American Political Economy (3)

~~An introductory study of America's~~ Canada's political economy, stressing the interrelated nature of Canada's economic and political life. ~~The course focuses on current economic problems and policies, taking into account the geographical, historical and political environments. Topics include the resource and industrial structures, research and development, the public sector, fiscal and monetary policy, the role of the state, trade and foreign ownership, energy, regional disparity, corporate concentration and the political economy of federalism.~~

~~This course is identical to CNS 280 and students cannot take both courses for credit.~~

Students with credit for CNS 280 cannot take POL 223 for further credit.

~~Recommended Pre-requisite:~~ POL 100 or 101W.

Breadth – Social Sciences.

RATIONALE

If more space is needed, please use the provided text box on page 2 of this document

MBB 432 has been updated with respect to techniques used so the description has been modified slightly. Because the course will continue to evolve and employ cutting edge laboratory techniques, a general description of the experimental approach of the lab has been given and specific techniques have been eliminated. The lab was successfully beta-tested in fall of 2015 and given the increased amount of time students are now required to spend in lab the units have been increased from 3 to 4

EFFECTIVE TERM AND YEAR, FOR CHANGES

Fall, Spring, Summer and year (please enter in textbox)

Fall 2016

RATIONALE

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**ATTENTION: Carl Lowenberger, Assoc. Dean of Science**

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**RE: Undergraduate Program changes for Earth Sciences**

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**DATE: January 11, 2016**

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The following motion is put forward by Earth Sciences and involves a “house-keeping” change to pre-requisites for EASC 401:

**Motion 1:** change pre-requisites from EASC 201, 204, 208 and 301 to EASC 201, 204, 208, 301 and 311.

*Justification:* EASC 301 was titled and encompassed Igneous and Metamorphic Petrology. Due to increased content in both areas, a new course, EASC 311 Metamorphic Petrology was created and EASC 301 was changed to Igneous Petrology. Both Metamorphic and Igneous Petrology are required for EASC 401.

Sincerely,

Shahin Dashtgard



COURSE SUBJECT  NUMBER  TITLE

INSTRUCTIONS (OVERALL):

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- 2. Rationale must be included. If more space is needed than provided below, please use the provided text box on page 2 of this document.
- 3. Indicate term = Fall, Spring, Summer

TYPE OF CHANGES RECOMMENDED

Please type 'X' for the appropriate revision(s):

Course number	Credit	Title	Description	X	Prerequisite	Deletion
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WORDING/DESCRIPTION EDITS

- 1. Indicate deleted or changed text using striketrough.
- 2. Indicate added or new text using underline.
- 3. Equivalent courses: preclusion statement should read:
  - a. Students with credit for x cannot take y for further credit.

Prerequisite: EASC 201, 204, 208, ~~and 301~~ and 311.

**SAMPLE**

POL 223 ~~Canadian-American~~ Political Economy (3)  
 An ~~introductory study of America's~~ Canada's political economy, stressing the interrelated nature of Canada's economic and political life. ~~The course~~ Focuses on current economic problems and policies, taking into account the geographical, historical and political environments. Topics include the resource and industrial structures, research and development, the public sector, fiscal and monetary policy, the role of the state, trade and foreign ownership, energy, regional disparity, corporate concentration and the political economy of federalism.

~~This course is identical to CNS 280 and students cannot take both courses for credit.~~  
Students with credit for CNS 280 cannot take POL 223 for further credit.

~~Recommended-Pre-requisite:~~ POL 100 or 101W  
 Breadth – Social Sciences.

RATIONALE

If more space is needed, please use the provided text box on page 2 of this document

This is a house keeping issue as EASC 301 was titled and encompassed Igneous and Metamorphic Petrology. Due to increasing content in both areas, a new course EASC 311 Metamorphic Petrology was created and the EASC 301 course title changed to Igneous Petrology. As was previously the case for EASC 401, content in both metamorphic and igneous petrology is required.

EFFECTIVE TERM AND YEAR, FOR CHANGES

FALL 2016

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**ATTENTION: Carl Lowenberger, Assoc. Dean of Science**

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**RE: Undergraduate Program changes for Chemistry**

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**DATE: January 12, 2016**

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The following motion is put forward by Chemistry for a pre-requisites change to CHEM 266:

**Motion 1:** Change from - Corequisite: CHEM 260, Atoms, Molecules, Spectroscopy to Prerequisite: CHEM 260, Atoms, Molecules, Spectroscopy

**Rationale**

CHEM 266 is a laboratory course that builds upon material covered in CHEM 260. Because students rotate through experiments (i.e. not all students do the experiments in the same sequence), students taking CHEM 260 concurrently with 266 may not have seen the appropriate material in 260 before doing the associated 266 experiment. The proposed change ensures that all students in CHEM 266 have been introduced to the background material prior to taking the course.

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Sincerely,

Vance Williams

COURSE SUBJECT	CHEM	NUMBER	266	TITLE	Physical Chemistry Laboratory I
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**INSTRUCTIONS (OVERALL):**

1. Using Microsoft Word draft changes using the following guideline. Paste in box below.
2. Rationale must be included. If more space is needed than provided below, please use the provided text box on page 2 of this document.
3. Indicate term = Fall, Spring, Summer

**TYPE OF CHANGES RECOMMENDED**

Please type 'X' for the appropriate revision(s):

Course number	Credit	Title	Description	X	Prerequisite	Deletion
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**WORDING/DESCRIPTION EDITS**

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3. Equivalent courses: preclusion statement should read:
  - a. Students with credit for x cannot take y for further credit.

~~Corequisite: CHEM 260: Atoms, Molecules, Spectroscopy~~  
~~Prerequisite: CHEM 260: Atoms, Molecules, Spectroscopy~~

**SAMPLE**POL 223 ~~Canadian-American~~ Political Economy (3)

~~An introductory study of America's~~ Canada's political economy, stressing the interrelated nature of Canada's economic and political life. ~~The course~~ Focuses on current economic problems and policies, taking into account the geographical, historical and political environments. Topics include the resource and industrial structures, research and development, the public sector, fiscal and monetary policy, the role of the state, trade and foreign ownership, energy, regional disparity, corporate concentration and the political economy of federalism.

~~This course is identical to CNS 280 and students cannot take both courses for credit.~~

~~Students with credit for CNS 280 cannot take POL 223 for further credit.~~

~~Recommended Pre-requisite: POL 100 or 101W.~~

Breadth – Social Sciences.

**RATIONALE**

If more space is needed, please use the provided text box on page 2 of this document

CHEM 266 is a laboratory course that builds upon material covered in CHEM 260. Because students rotate through experiments (i.e. not all students do the experiments in the same sequence), students taking CHEM 260 concurrently with 266 may not have seen the appropriate material in 260 before doing the associated 266 experiment. The proposed change ensures that all students in CHEM 266 have been introduced to the background material prior to taking the course.

FALL 2016