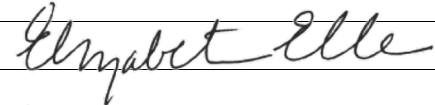


## MEMORANDUM

<b>ATTENTION:</b>	Senate
<b>FROM:</b>	Elizabeth Elle, Vice-Chair, Senate Committee on Undergraduate Studies
<b>RE:</b>	Course Changes (SCUS 23-51)
<b>DATE:</b>	May 5, 2023


**For information:**

Acting under delegated authority at its meeting of May 4, 2023, SCUS approved the following curriculum revisions effective Spring 2024.

**a. Faculty of Arts and Social Sciences (SCUS 23-51a)**1. Department of English

- (i) Prerequisite changes for ENGL 418W

2. Department of History

- (i) Description change for HIST 349 and 436
- (ii) Description, equivalent statement and prerequisite changes for HIST 460

3. Department of Indigenous Studies

- (i) Description changes for INDG 442 and 447

4. Labour Studies Program

- (i) Title change for LBST 301W and 312

5. Department of Linguistics

- (i) Prerequisite change for LING 301W, 321, 322, 324, 330, 362, 408, 431 and 432

6. Department of Political Science

- (i) Title and description change for POL 132

7. Department of Psychology

- (i) Prerequisite change for PSYC 371

**b. Faculty of Communication, Art and Technology**

1. School for the Contemporary Arts (SCUS 23-46b(iii))

(i) Description, units and prerequisite changes for CA 425

**2. Faculty of Science (SCUS 23-51b)**

1. Department of Biological Sciences

(i) Prerequisite change for BISC 405

2. Department of Mathematics

(i) Title, description and prerequisite change for MATH 348 (Fall 2024)

(ii) Title, description, prerequisite and equivalent statement changes for MATH 360 (Fall 2024)

3. Department of Physics

(i) Prerequisite change for PHYS 344

<b>COURSE SUBJECT</b>	ENGL	<b>NUMBER</b>	418W	<b>TITLE</b>	SEMINAR IN CRITICAL THEORY
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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Advanced seminar in literary, critical, and/or cultural theory. ~~Prerequisite: ENGL 364.~~ Reserved for English honours, major, joint major and minor students. May be repeated if a different topic is taught, though students who obtained credit for English 465W prior to Summer 2015 may not take this course for further credit. Students with credit for ENGL 465 may not take this course for further credit. Writing.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

SPRING 2024

**RATIONALE** (must be included)

The course is already reserved for English honours, major, joint major and minor students. We do not want to further restrict the class.

<b>COURSE SUBJECT</b>	Hist	<b>NUMBER</b>	349	<b>TITLE</b>	Rome after Rome: The Byzantine Middle Ages from the end of Antiquity to the Crusades (4)
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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input checked="" type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

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~~This is a history of Byzantium, Rome's direct heir, that~~ The history of the Medieval Romans and their polity surveys the "other" Middle Ages. The course familiarizes students with the social, political, economic, and cultural history of Byzantium from the rise of the Caliphate in the seventh century to the Carolingians, the Crusades, the emergence of the Italian maritime republics and the ascent of the Seljuk Turks. Prerequisite: 45 units, including 6 units of lower division history. Students with credit for HIST/HS 308, HS/HIST 317, **HUM 349** or HS 349 may not take this course for further credit. Breadth-Humanities.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Spring 2024

**RATIONALE** (must be included)

The course description is proposed to match that of Humanities 349.

COURSE SUBJECT  NUMBER  TITLE

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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input checked="" type="checkbox"/>	Equivalent Statement	<input checked="" type="checkbox"/>

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Selected problems in the social, cultural, economic and political development of British Columbia. Hist 436 may be repeated for credit only when a different topic is taught. Prerequisite: 45 units including nine units of lower division history. Recommended: HIST 101 and 102W.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Spring 2024

**RATIONALE** (must be included)

With a new hire, and a new research direction for a faculty member, we now have three or more faculty interested in teaching this course, each choosing a very different theme or focus. We would like this course to align with other "special topics" in History that allow students to repeat for credit only when a different topic is taught.

<b>COURSE SUBJECT</b>	Hist	<b>NUMBER</b>	460	<b>TITLE</b>	Themes in Byzantine History (4)
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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input checked="" type="checkbox"/>	Equivalent Statement	<input checked="" type="checkbox"/>

**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Familiarizes the student with the ~~main problemscore questions~~ in the study of Medieval Roman (Byzantine) social, political, economic and intellectual ~~history~~life. Students will be exposed to the main primary sources available to the Byzantinist and will read articles and books by the most influential scholars in the field of ~~Byzantine studies~~. ~~Content may vary from offering to offering; see course outline for further information~~ Students may repeat this course once for further credit under a different topic. ~~HIST 460 may be repeated for credit only when a different topic is taught~~. Prerequisite: 45 units including 6 units of lower division history. Students with credit for HS 460 or HUM 460 may take HIST 460 for credit only when a different topic is taught. Breadth-Humanities.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Spring 2024



**RATIONALE** (must be included)

The course description is proposed to match that of Humanities 460. History will retain our requirement of 6 credits of lower division History.





<b>COURSE SUBJECT</b>	INDG	<b>NUMBER</b>	442	<b>TITLE</b>	Directed Readings in Indigenous Studies
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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input checked="" type="checkbox"/>	Equivalent Statement	<input checked="" type="checkbox"/>

**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Directed readings for upper level students in Indigenous Studies who wish to study selected topics in depth. ~~May be repeated once when topic is different. May not be repeated for credit.~~ Variable units: 2, 3, 4, 5. Prerequisite: 15 units in Indigenous (or First Nations) Studies. Corequisite: Permission of an instructor and department.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Spring 2024

**RATIONALE** (must be included)

Department now has sufficient upper division course offerings; more than one directed readings course no longer fits with our curriculum.



<b>COURSE SUBJECT</b>	INDG	<b>NUMBER</b>	447	<b>TITLE</b>	Directed Studies in Indigenous Studies
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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input checked="" type="checkbox"/>	Equivalent Statement	<input checked="" type="checkbox"/>

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Directed study for upper level students in a topic chosen in consultation with a supervisor. Explore Indigenous topics through research. Variable units: 2, 3, 4, 5. ~~This course may be repeated for credit when topic is different.~~ May not be repeated for credit. Prerequisite: 15 units of INDG (or FNST) courses; permission of an instructor and department approval. Corequisite: varies depending on topic.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Spring 2024

**RATIONALE** (must be included)

Department has sufficient upper division course offerings; more than one directed studies course no longer fits with curriculum.



<b>COURSE SUBJECT</b>	LBST	<b>NUMBER</b>	301W	<b>TITLE</b>	Labour movements: Issues and Images and popular culture
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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input checked="" type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

LBST 301W ~~Labour movements: Issues and Images and popular culture~~ Labour, social media, and the news

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Spring 2024

**RATIONALE** (must be included)

This change is to the name only, so it better reflects the content of the course. Nothing else is being changed.

COURSE SUBJECT  NUMBER  TITLE

**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input checked="" type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

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LBST 312 ~~Global Labour Migration~~ Migration, Migrants, and Work: A Global Perspective

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

**RATIONALE** (must be included)

This is a name change that serves to better reflect the content of the course. Nothing else is being changed.



COURSE SUBJECT  NUMBER  TITLE

**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

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Prerequisite: LING 282W; ~~or LING 222 and any lower division W course.~~

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Spring 2024

**RATIONALE** (must be included)

Removing LING 222 because it has been cancelled and was last offered in Summer 2018.  
Removing "any lower division W course" because the current prerequisite course LING282W is already a W course.



COURSE SUBJECT  NUMBER  TITLE

**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

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Prerequisite: LING 282W; ~~or LING 221 and any lower division W course.~~

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Spring 2024

**RATIONALE** (must be included)

Removing LING 221 because it has been cancelled and was last offered in Summer 2018.  
Removing "any lower division W course" because the current prerequisite course LING282W is already a W course.





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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

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Prerequisite: LING 282W; ~~or LING 222 and any lower division W course.~~

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Spring 2024

**RATIONALE** (must be included)

Removing LING 222 because it has been cancelled and was last offered in Summer 2018.  
Removing "any lower division W course" because the current prerequisite course LING282W is already a W course.



COURSE SUBJECT  NUMBER  TITLE

**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

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Prerequisite: LING 282W; ~~or LING 222 and any lower division W course.~~

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Spring 2024

**RATIONALE** (must be included)

Removing LING 222 because it has been cancelled and was last offered in Summer 2018.  
Removing "any lower division W course" because the current prerequisite course LING282W is already a W course.

COURSE SUBJECT  NUMBER  TITLE

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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

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Prerequisite: LING 282W; ~~or LING 221 and any lower division W course.~~

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Spring 2024

**RATIONALE** (must be included)

Removing LING 221 because it has been cancelled and was last offered in Summer 2018.  
Removing "any lower division W course" because the current prerequisite course LING282W is already a W course.



<b>COURSE SUBJECT</b>	LING	<b>NUMBER</b>	362	<b>TITLE</b>	Introduction to Teaching English as a Second Language to Adults
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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

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Prerequisite: LING 282W; ~~or LING 221 and any lower division W course.~~

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Spring 2024

**RATIONALE** (must be included)

Removing LING 221 because it has been cancelled and was last offered in Summer 2018.  
Removing "any lower division W course" because the current prerequisite course LING282W is already a W course.



COURSE SUBJECT  NUMBER  TITLE

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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

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Prerequisite: LING ~~221~~ or 321; and ~~222~~ or 322.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Spring 2024



**RATIONALE** (must be included)

Removing LING 221 and 222 because they have been cancelled and were last offered in Summer 2018.



COURSE SUBJECT  NUMBER  TITLE

**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

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Prerequisite: LING 282W; ~~or LING 221 and 222.~~

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Spring 2024



**RATIONALE** (must be included)

Removing LING 221 and 222 because they have been cancelled and were last offered in Summer 2018.

COURSE SUBJECT  NUMBER  TITLE

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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

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Prerequisite: LING 282W; ~~or LING 221 and 222.~~

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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



**RATIONALE** (must be included)

Removing LING 221 and 222 because they have been cancelled and were last offered in Summer 2018.

<b>COURSE SUBJECT</b>	POL	<b>NUMBER</b>	132	<b>TITLE</b>	From Dictatorship to Democracy: Political Regimes in the 21 <sup>st</sup> Century
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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input type="checkbox"/>
Title	<input checked="" type="checkbox"/>	Description	<input checked="" type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

**From Dictatorship to Democracy in the Global South : ~~Political Regimes in the 21st Century~~**

~~A firm consensus – at least in the West – has developed in favour of democracy as a means to emancipate ordinary people from the mayhem, conflict, and poor quality of life associated with autocratic rule.~~ Introduces the concepts and tools needed to measure and analyze state formation, democratization, autocracy, development, and conflict around the worldwide, focusing on the Global South. Breadth-Humanities/Social Sciences.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Spring 2024

**RATIONALE** (must be included)

With the arrival of a new faculty member (Dr. Shivaji Mukherjee), there was a need to update this course. Further, in the past few years, the course has focused on democratization in the Global South, and we feel the need to convey this information in the course title and description.



<b>COURSE SUBJECT</b>	PSYC	<b>NUMBER</b>	371	<b>TITLE</b>	Intervention: Process and Outcome
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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Prerequisite: PSYC 201 and 241. ~~PSYC 270 (or 370) is recommended.~~

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

1241





**RATIONALE** (must be included)

Updating course prerequisites



<b>COURSE SUBJECT</b>	CA	<b>NUMBER</b>	425-(4)	<b>TITLE</b>	Intensive Studies in Performance: Senior Projects
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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input checked="" type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input checked="" type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Intensive Studies in Performance: Senior Projects – 425-~~(4)~~(5)

Senior students continue the movement-based research initiated in CA 424. An extended final project will be developed, mentored by faculty and guests ~~guest artists~~, culminating in a showing ~~or presentation at the end of the semester~~. Students will have the option of working as a choreographer or performer, and or collaborating with students from other disciplines. Fourth year students will focus on choreography; other students will participate as collaborators or performers. Prerequisite: CA 220, 324, 424. This course can be repeated for credit three times.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Spring 2024

**RATIONALE** (must be included)

The dance area has prepared this new model for CA 425 to accommodate both choreographers and dancers within the major. As it is required of 4<sup>th</sup> year students, we want to open the course to 2<sup>nd</sup> and third year students who may want to perform in the senior works for credit. The area will increase the workload for dancers in the course through assigning production house for the SCA. Allowing students to repeat the course will make this possible. We are changing the credit weight (from 4 to 5) to account for the extra workload and rehearsal hours that the students require to accomplish material for the showings.

COURSE SUBJECT  NUMBER  TITLE

**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number  Units  Prerequisite

Title  Description  Equivalent Statement

**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

**FROM:** (BISC 205 or BPK 205) and MBB 231, both with a minimum grade of C-.

**TO:** Students complete one of: (BISC 205 and MBB 231), or (BPK 205 and MBB 231), or BPK 306, or HSCI 321; each with a minimum grade of C-.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

**RATIONALE** (must be included)

The current prerequisites unintentionally exclude students from the Behavioural Neuroscience major, who are not required to take MBB 231. The 4 prereq options expand and provide access to:

- Biological Sciences majors: BISC 205 Principles of Physiology, and MBB 231 Cellular Biology & Biochemistry,
- Biomedical Physiology majors: BPK 205 Introduction to Human Physiology, and MBB 231 Cellular Biology & Biochemistry,
- Kinesiology majors: BPK 306 Human Physiology II (which includes MBB 201 as a built-in pre-requisite),
- Behavioural Neuroscience majors: BPK 306 Human Physiology II (which includes MBB 201 as a built-in pre-requisite),
- Health Sciences majors (Life Sciences Concentration): HSCI 231 Human Pathophysiology (which includes MBB 231 as a built-in pre-requisite).

<b>COURSE SUBJECT</b>	MATH	<b>NUMBER</b>	348	<b>TITLE</b>	Introduction to Probabilistic Models
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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input checked="" type="checkbox"/>	Description	<input checked="" type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

MATH 348 ~~Introduction to Probabilistic Models~~ Stochastic Modelling and Simulation

~~Applications of Markov chains, the exponential distribution and the Poisson process from science and industry. Applications may include inventory theory, queuing, forecasting, scheduling and simulation.~~ Modelling of real-life systems as Markov chains, including transient behaviour, limiting behaviour and classification of states, and using the exponential distribution and Poisson processes. Computational topics include generating and sampling random numbers, combinatorial objects and probability functions. Applications may include queueing systems, chemical kinetics, infectious diseases, and statistical physics.

Prerequisite: STAT 270 and (MATH 232 or MATH 240), all with a minimum grade of C-. Strongly Recommended: Experience with a computing platform such as R, MATLAB, or Python. Quantitative.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Fall 2024

**RATIONALE** (must be included)

The description is being tightened up to better inform students what application areas to expect and to clarify that simulation is a part of the course.

The previous description was overly vague. There has been very little change to the theoretical aspects of the course content. Over time the focus of the application areas has shifted with changing student needs.

<b>COURSE SUBJECT</b>	MATH	<b>NUMBER</b>	360	<b>TITLE</b>	Modeling with Ordinary Differential Equations
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**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input checked="" type="checkbox"/>	Description	<input checked="" type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using strike through, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

MATH 360 ~~Modeling with Ordinary Differential Equations~~ Introduction to Biomathematics

~~Formulation, analysis and simulation of continuous mathematical models. Applications may be selected from topics in physics, biology, engineering and economics. Key ideas and mathematical methods used in applications of mathematics to various biological, ecological, physiological, and medical problems. The course derives, interprets, solves and simulates models of biological systems. Topics could include population models, evolution from trait and genetic perspectives and qualitative analysis of ODEs.~~

Prerequisite: ~~MATH 251~~ and ~~MATH 260~~, with a minimum grade of C-. Students with credit for MATH 461 or ~~MATH 761~~ may not complete this course for further credit. MATH 260 with a minimum grade of C- OR MATH 155 with a minimum grade of A-. Strongly Recommended: Experience with a computing platform such as R, MATLAB, or Python. Quantitative.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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

Fall 2024



**RATIONALE** (must be included)

The previous description was overly vague and there has been very little change to course content. All recent offerings (including with the former number, 461) have focused on models from biology.

The description is being tightened up to better inform students how this class fits into our new biomathematics concentration being developed for Fall 2024.

The prerequisites have been changed to make the course accessible to life science students with a particular interest and strength in mathematics.

COURSE SUBJECT  NUMBER  TITLE

**TYPE OF CHANGES.** Please type 'X' for the appropriate revision(s):

Course number	<input type="checkbox"/>	Units	<input type="checkbox"/>	Prerequisite	<input checked="" type="checkbox"/>
Title	<input type="checkbox"/>	Description	<input type="checkbox"/>	Equivalent Statement	<input type="checkbox"/>

**WORDING/DESCRIPTION EDITS.** Indicate deleted or changed text using ~~strike through~~, indicate added or new text using underline. If you need to enter more text than the box allows, drag the endpoint of the text box to make it bigger, as it will not automatically expand. Please review the "Equivalency statements" section under [Information about specific course components](#) if changing equivalent statement(s).

Heat, temperature, heat transfer, kinetic theory, laws of thermodynamics, entropy, heat engines, applications of thermodynamics to special systems, phase transitions. Prerequisite: PHYS 121 or PHYS 126 or PHYS 141 (or PHYS 102 with a minimum grade of B); MATH 251; both with a minimum grade of C-. Quantitative.

**EFFECTIVE TERM AND YEAR FOR CHANGES**

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



**RATIONALE** (must be included)

Some Physics programs allow for PHYS 102 instead of PHYS 121 or PHYS 141. The updated prerequisites now allow such students to enroll in PHYS 344.