S.18-86

OFFICE OF THE ASSOCIATE VICE-PRESIDENT, ACADEMIC

MEMORANDUM	8888 University Drive, Burnaby, BC Canada V5A 1S6	TEL: 778.782 FAX: 778.782	4636 5876	avpcio@sfu.ca www.sfu.ca/vpacademic	
memoriano om					
ATTENTION	Senate		DATE	July 6. 2018	
FROM	Mark Lechner, Acting C	Chair	PAGES	1/1	
	Senate Committee on	1			
RE:	Undergraduate Studies New Course Proposals	- Ch	SC		

For information:

Acting under delegated authority at its meeting of July 5, 2018 SCUS approved the following curriculum revisions effective Summer 2019.

a. Faculty of Science (SCUS 18-47)

1. Department of Molecular Biology and Biochemistry (Fall 2019)

(i) New Course Proposal: MBB 460-3, Selected Topics in Bioinformatics and Genomics

2. Department of Statistics and Actuarial Science (Fall 2019)

(i) New Course Proposals:

- STAT 310-2, Introduction to Data Science for the Social Sciences
- STAT 311-2, Data Science Laboratory for the Social Sciences



NEW COURSE PROPOSAL 1 of 4 pages

COURSE SUBJECT	MBB		NUMBER 46	50-3	
COURSE TITLE LONG Selected Topics i	3 — for Calendar/s in Bioinforma	chedule, no more than 100 tics and Genomics) characters including	spaces and punctuation	
COURSE TITLE SHOP Selected Topics i	RT — for enrollmer	nt/transcript, no more than	1 30 characters includin	ng spaces and punctuation	
CAMPUS where course	e will be normally	caught: 🖌 Burnaby	Surrey Var	ncouver Great Northe	rn Way Off campus
COURSE DESCRIPTIO	DN — 50 words m	ax. Attach a course outline	. Don't include WQB	or prerequisites info in this de	escription box.
The topics in this Prerequisite: will	course will v depend upon	ary from term to tern the nature of the top	n, depending on bic offered.	faculty availability an	d student interest.
REPEAT FOR CREDIT	YES	NO Total comple	etions allowed	Within a term?	YES NO
LIBRARY RESOURCES NOTE: Senate has approved (S.93-11) that no new course should be approved by Senate until funding has been committed for necessary library materials. Each new course proposal must be accompanied by the email that serves as proof of assessment. For more information, please visit <u>www.lib.sfu.ca/about/overview/collections/course-assessments</u> .					

RATIONALE FOR INTRODUCTION OF THIS COURSE

MBB offers 400-level selected topics courses in Biochemistry (MBB 420-3) and Molecular Biology (MBB 440-3). Bioinformatics and Genomics together represent a major research strength in our department. A specialized current topics course in this area is expected to appeal to many students.



SCHEDULING AND ENROLLMENT INFORMATION

Effective term and year (e.g. FALL 2016) Fall 2019	
Term in which course will typically be offered Spring Summer Fall Other (describe)	
Will this be a required or elective course in the curriculum? Required I	Elective
What is the probable enrollment when offered? Estimate: 40	
UNITS Indicate number of units: 3	
Indicate no. of contact hours: 3 Lecture 3 Seminar Tuto	orial Lab Other; explain below
OTHER	

FACULTY

Which of your present CFL faculty have the expertise to offer this course?

Fiona Brinkman, Jack Chen, Rob Holt, Steve Jones, Ryan Morin

WQB DESIGNATION

(attach approval from Curriculum Office)

PREREQUISITE AND / OR COREQUISITE

Will vary depending on the topic.



EQUIVALENT COURSES [For more information on equivalency, see Equivalency Statements under Information about Specific Course components.]

1. SEQUENTIAL COURSE [is not hard coded in the student information management system (SIMS).]

Students who have taken (place relevant course(s) in the blank below (ex: STAT 100)) first may not then take this course for further credit.

2. ONE-WAY EQUIVALENCY [is not hard coded in SIMS.]

(Place relevant course(s) in the blank below (ex: STAT 100)) will be accepted in lieu of this course.

3. TWO-WAY EQUIVALENCY [is hard coded and enforced by SIMS.]

Students with credit for (place relevant course(s) in the blank below (ex: STAT 100)) may not take this course for further credit.

Does the partner academic unit agree that this is a two-way equivalency? <u>YES</u> <u>NO</u> Please also have the partner academic unit submit a course change form to update the course equivalency for their course(s).

4. SPECIAL TOPICS PRECLUSION STATEMENT [is not hard coded in SIMS.]

FEES

Are there any proposed student fees associated with this course other than tuition fees?

YES 🗸 NO

COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)



RESOURCES

List any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc:

Course will be held in a lecture theatre and in the MBB computer lab so no additional resources are neccesary.

OTHER IMPLICATIONS

Final exam required

✓ NO YES V NO YES Criminal Record Check required

OVERLAP CHECK

Checking for overlap is the responsibility of the Associate Dean.

Each new course proposal must have confirmation of an overlap check completed prior to submission to the Faculty Curriculum Committee.

Name of Originator

Lisa Craig



NEW COURSE PROPOSAL

1 OF 4 PAGES

COURSE SUBJECT STAT NUMBER 310
COURSE TITLE LONG — for Calendar/schedule, no more than 100 characters including spaces and punctuation Introduction to Data Science for the Social Sciences
COURSE TITLE SHORT — for enrollment/transcript, no more than 30 characters including spaces and punctuation
CAMPUS where course will be normally taught: ✓ Burnaby Surrey Vancouver Great Northern Way Off campus
COURSE DESCRIPTION — 50 words max. Attach a course outline. Don't include WQB or prerequisites info in this description box.
An introduction to modern tools and methods for data acquisition, management, visualization, and machine learning, capable of scaling to Big Data. No prior computer programming experience required. Examples will draw from the social sciences.
REPEAT FOR CREDIT YES NO Total completions allowed Within a term? YES NO
LIBRARY RESOURCES NOTE: Senate has approved (S.93-11) that no new course should be approved by Senate until funding has been committed for necessary library materials. Each new course proposal must be accompanied by the email that serves as proof of assessment. For more information, please visit <u>www.lib.sfu.ca/about/overview/collections/course-assessments</u> .
RATIONALE FOR INTRODUCTION OF THIS COURSE
Data science methods for collecting, formatting, and analyzing (potentially big) data sets are used increasingly in the social sciences. Data Science is an interdisciplinary field focused on obtaining and extracting value from data. The proposed course is a gentle introduction to this field, and (unlike STAT 240) will be specially designed for students who have no prior programming experience. The proposed course is intended to accompany STAT 311 (a proposed 2 unit laboratory course where students will apply data science methods to problems from the social sciences). Together, STAT 310 and STAT 311 will provide an introduction to data science tools and the topical insights that come from combining analytic skills and subject matter expertise, while tailoring content to students who
have no programming experience. Initially, we will require that STAT 310 and STAT 311 be taken concurrently. However, we will encourage social sciences departments to develop their own, discipline-specific laboratory courses that could substitute for STAT 311. STAT 310 will cover the required statistical methods, while the complementary courses in social sciences would cover applications and context for these methods. In this way, we can facilitate social sciences students' exposure to the applications in their particular fields of interest, while preventing redundancy by teaching the statistical methods in a single course (STAT 310).



SCHEDULING AND ENROLLMENT INFORMATION

Effective term and year (e.g. FALL 2016) Fall 2019
Term in which course will typically be offered Spring Summer Fall Other (describe)
Will this be a required or elective course in the curriculum? Required Elective
What is the probable enrollment when offered? Estimate: 50
UNITS Indicate number of units: 2
Indicate no. of contact hours: 2 Lecture Seminar Tutorial Lab Other; explain below
OTHER

FACULTY

Which of your present CFL faculty have the expertise to offer this course?

David Campbell, Luke Bornn, Lloyd Elliott, Brad McNeney

WQB DESIGNATION

(attach approval from Curriculum Office)

Q Designation

PREREQUISITE AND / OR COREQUISITE

Prerequisite:	One of STAT	201, STAT	203, STA	T 205, ST	TAT 270.	BUEC 232.	or POL 201
Corequisite:	STAT 311				,	,	0.102201.



EQUIVALENT COURSES [For more information on equivalency, see Equivalency Statements under Information about Specific Course components.]

1. SEQUENTIAL COURSE [is not hard coded in the student information management system (SIMS).]

Students who have taken (place relevant course(s) in the blank below (ex: STAT 100)) first may not then take this course for further credit.

STAT 240, STAT 440

2. ONE-WAY EQUIVALENCY [is not hard coded in SIMS.]

(Place relevant course(s) in the blank below (ex: STAT 100)) will be accepted in lieu of this course.

3. TWO-WAY EQUIVALENCY [is hard coded and enforced by SIMS.]

Students with credit for (place relevant course(s) in the blank below (ex: STAT 100)) may not take this course for further credit.

Does the partner academic unit agree that this is a two-way equivalency? YES NO Please also have the partner academic unit submit a course change form to update the course equivalency for their course(s).

4. SPECIAL TOPICS PRECLUSION STATEMENT [is not hard coded in SIMS.]

FEES				
Are there any proposed student fees associated with this course other than tuition fees?	VES	1 NO		

COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)

With an emphasis on modern methods, this course will introduce students to tools for reproducible research (RStudio), collaboration (Github), database handling (SQL), data acquisition through APIs, data cleaning, and exploratory analysis for acquired demographics, text, time and date, and spatial data.



RESOURCES

List any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc:

OTHER IMPLICATIONS		
Final exam required YES	NO	
Criminal Record Check required	YES	✓ NO

OVERLAP CHECK

Checking for overlap is the responsibility of the Associate Dean.

Each new course proposal must have confirmation of an overlap check completed prior to submission to the Faculty Curriculum Committee.

Name of Originator

Rachel Altman



NEW COURSE PROPOSAL

1 OF 4 PAGES

COURSE TITLE LONG — for Calendar/Achedule, no more than 100 characters including spaces and punctuation Data Science Laboratory for the Social Sciences COURSE TITLE SHORT — for encollment/transcript, no more than 30 characters including spaces and punctuation Data Science Lab for Soc Sci CAMPUS where course will be normally taught: Burnaby Surrey Cancouver Creat Northern Way Off campus COURSE DESCRIPTION — 50 words max. Attach a course outline. Don't include WQB or prerequinites info in this description box. A hands-on application of modern tools and methods for data acquisition, management, visualization, and machine learning, capable of scaling to Big Data. No prior computer programming experience required. Projects will draw from the social sciences and integrate application area insight into the analytic toolkit from STAT 310. REPEAT FOR CREDIT YES NO Total completions allowed Within a term? YES NO JBRARY RESOURCES VOTE: Sende has approved (S-93-11) that to new course should be approved by Senate until funding has been committed for necesary library naterials. Each new course proposal must be accompanied by the email that serves as proof of assessment. For more information, hase were ware under science methods. For collecting. formatting. and analyzing (potentially big) data sets are used increasingly in the social sciences. ATIONALE FOR INTRODUCTION OF THIS COURSE Data science methods for collecting. formatting, and analyzing (potentially big) data sets are used inc	COURSE SUBJECT STAT NUMBER 311
COURSE TITLE SHORT — for enrollment/transcript, no more than 30 characters including spaces and punctuation Data Science Lab for Soc Sci CAMPUS where course will be normally taught: Burnaby Surrey Vancouver Great Northern Way Off campus COURSE DESCRIPTION — 50 works max. Attach a course outline. Don't include WQB or preequaties info in this description box. A hands-on application of modern tools and methods for data acquisition, management, visualization, and machine learning, capable of scaling to Big Data. No prior computer programming experience required. Projects will draw from the social sciences and integrate application area insight into the analytic toolkit from STAT 310. REPEAT FOR CREDIT YES NO Total completions allowed Within a term? YES NO JBRAR MESOURCES NOT Total completions allowed Within a term? YES NO AutonALE FOR INTRODUCTION OF THIS COURSE Data science methods for collecting, formating, and analyzing (potentially big) data sets are used increasingly in the social sciences. Ital science methods for collecting, formating, and analyzing (potentially big) data sets are used increasingly in the social sciences students to data science methods. Together, STAT 310 and STAT 311 be taken concurrenty. However, we will encourage social sciences tadents to data science methods. Together, STAT 310 and STAT 311 be taken concurrenty. However, we will encourage social sciences tadents to data science methods in a single course (STAT 310).	COURSE TITLE LONG — for Calendar/schedule, no more than 100 characters including spaces and punctuation Data Science Laboratory for the Social Sciences
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1



NEW COURSE PROPOSAL

2 OF 4 PAGES

SCHEDULING AND ENROLLMENT INFORMATION

Effective term and year (e.g. FALL 2016) Fall 2019
Term in which course will typically be offered Spring Summer Fall Other (describe)
Will this be a required or elective course in the curriculum? Required Elective
What is the probable enrollment when offered? Estimate: 50
UNITS Indicate number of units: 2
Indicate no. of contact hours: Lecture Seminar Tutorial 2 Lab Other; explain below
OTHER

FACULTY

Which of your present CFL faculty have the expertise to offer this course?

David Campbell, Luke Bornn, Lloyd Elliott, Brad McNeney

WQB DESIGNATION

(attach approval from Curriculum Office)

Q Designation

PREREQUISITE AND / OR COREQUISITE

Prerequisite: One of STAT 201, STAT 203, STAT 205, STAT 270, BUEC 232, or POL 201. Corequisite: STAT 310



EQUIVALENT COURSES [For more information on equivalency, see Equivalency Statements under Information about Specific Course components.]

1. SEQUENTIAL COURSE [is not hard coded in the student information management system (SIMS).]

Students who have taken (place relevant course(s) in the blank below (ex: STAT 100)) first may not then take this course for further credit.

STAT 240, STAT 440

2. ONE-WAY EQUIVALENCY [is not hard coded in SIMS.]

(Place relevant course(s) in the blank below (ex: STAT 100)) will be accepted in lieu of this course.

3. TWO-WAY EQUIVALENCY [is hard coded and enforced by SIMS.]

Students with credit for (place relevant course(s) in the blank below (ex: STAT 100)) may not take this course for further credit.

Does the partner academic unit agree that this is a two-way equivalency? YES NO Please also have the partner academic unit submit a course change form to update the course equivalency for their course(s).

4. SPECIAL TOPICS PRECLUSION STATEMENT [is not hard coded in SIMS.]

FEES				
Are there any proposed student fees associated with this course other than tuition fees?	YES	✓ NO		

Are there any proposed student fees associated with this course other than tuition fees?

COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)

This course integrates domain expertise into the analytic toolkit from STAT 310. Examples include: using Twitter APIs from STAT 310 to gain insight into election discussion, using spatial data from a crime database to examine questions of public safety, using census data to consider resource allocation.



RESOURCES

List any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc:

OTHER IMPLICATIONS	/	
Final exam required YES	V NO	
Criminal Record Check required	YES	✓ NO

OVERLAP CHECK

Checking for overlap is the responsibility of the Associate Dean.

Each new course proposal must have confirmation of an overlap check completed prior to submission to the Faculty Curriculum Committee.

Name of Originator

Rachel Altman



UNIVERSITY CURRICULUM AND INSTITUTIONAL LIAISON OFFICE OF THE VICE-PRESIDENT, ACADEMIC

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MEMORAND	UM			
ATTENTION	Carl Lowenberger, Associate Dean, Faculty of Science	DATE	July 5, 2018	
FROM	Susan Rhodes, Director University Curriculum & Institutional Liaison	PAGES	1	
RE:	STAT Q designation approval			

The University Curriculum Office has approved **Q** designation for the following new STAT corequisite courses, effective FALL | 2019 (1197):

STAT 310-2 Introduction to Data Science for the Social Sciences STAT 311-2 Data Science Laboratory for the Social Sciences

Please forward this memo to SCUS and Senate for further approval.

cc: Rachel Altman, UGC Chair, Department of Statistics