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MEMORANDUM

ATTENTION Senate

FROM Elizabeth Elle, Vice-Chair

Senate Committee on Undergraduate

Studies

New Course Proposals

DATE PAGES September 16, 2022

Elmabet Elle

For information:

Acting under delegated authority at its meeting of September 15, 2022 SCUS approved the following curriculum revision effective Summer 2023.

### a. Faculty of Applied Sciences (SCUS 22-51)

1. School of Computing Science

(i) New Course Proposal: CMPT 493-6, Digital Media Practicum

#### **b.** Faculty of Science

- 1. Department of Mathematics (SCUS 22-53)
  - (i) New Course Proposals:
    - FAN X91-2, Foundations of Analytical and Quantitative Reasoning I
    - FAN X92-2, Foundations of Analytical and Quantitative Reasoning II
- 2. <u>Department of Molecular Biology and Biochemistry</u> (SCUS 22-54)
  - (i) New Course Proposals:
    - MBB 445-3, Advanced Microbial Pathogenesis

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.



NEW COURSE PROPOSAL

1 OF 4 PAGES

COURSE SUBJECT	CMPT	NUMBER	493	
	<b>G</b> — for Calendar/schedule, no more th	nan 100 characters includ	ing spaces and punctuation	
Digital Media Pi	racticum			
course title sho Digital Media Pr	RT — for enrollment/transcript, no mo	ore than 30 characters incl	luding spaces and punctuation	
Digital Wedia 11	lacticum			
<b>CAMPUS</b> where cours	se will be normally taught: Burnal	oy Surrey	Vancouver	a Way Off campus
COURSE DESCRIPTI	<b>ION</b> — 50 words max. Attach a course of	outline. Don't include W	QB or prerequisites info in this desc	cription box.
are provided by	implementation of interactive external clients or vetted entre e CMPT 493 student and mult	epreneurial pitches	and are developed by inte	
REPEAT FOR CREDI	T YES NO Total	completions allowed	Within a term?	YES NO
materials. Each new co	es proved (S.93–11) that no new course sho purse proposal must be accompanied by n.ca/about/overview/collections/course TRODUCTION OF THIS COURSE	the email that serves as p		
are for external clies. These include: the cleen technical skills learn	nudents the opportunity to take part ints. Students are expected to gain endesign process; self-awareness; time ned in their Computing Science coulough all relate to digital media of so	xperience in a number e management; articula arses. The exact nature	of competencies related to partiation and teamwork. In addition of the technical requirements v	cipation in the project. students will practice aries considerably
is less than ideal. As	been offered since Summer 2016 as s we expect to continue to offer the e a unique course number.			



Effective term and year (e.g. FALL 2016) Summer 2023				
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: 5				
UNITS Indicate number of units: 6				
Indicate no. of contact hours:  Lecture  Seminar  Tutorial  Lab  6  Other; explain below				
OTHER				
Practicum entails working on a project approximately two days a week.				
FACULTY  Which of your present CFL faculty have the expertise to offer this course?				
Any - while SFU faculty member supervises students, CDM faculty supervise the project team and are the primary contacts for the students.				
WQB DESIGNATION				
(attach approval from Curriculum Office)				
n/a				

### PREREQUISITE AND / OR COREQUISITE

CMPT 275 or CMPT 276, at least 80 credit hours, CGPA and UDGPA over 3.0, enrolled in any CS major program. Participation in the practicum is competitive and an application must be submitted to the Undergraduate Chair by a defined due date announced each semester.



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? 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** YES Are there any proposed student fees associated with this course other than tuition fees? **COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)** 





### RESOURCES

John Edgar

List any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc:		
n/a		
OTHER IMPLICATIONS		
Final exam required YES VO NO		
Criminal Record Check required YES 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		



NEW COURSE PROPOSAL

1 OF 4 PAGES

COURSE SUBJECT	FAN	NUMBER	X91		
COURSE TITLE LONG — for Calendar/schedule, no more than 100 characters including spaces and punctuation Foundations of Analytical and Quantitative Reasoning I					
COURSE TITLE SHOW	RT — for enrollment/transcript, no mo	ore than 30 characters inclu	ding spaces and punctuation		
<b>CAMPUS</b> where cours	e will be normally taught: 🔽 Burna	lby Surrey V	Vancouver Great Northern	Way Off campus	
COURSE DESCRIPTI	<b>ON</b> — 50 words max. Attach a course	outline. Don't include WQ	QB or prerequisites info in this desc	ription box.	
An in-depth look at mathematical reasoning, problem solving and math study skills. Develops students' math study skills, confidence in their quantitative abilities, and to learn how understanding mathematics is both one of the keys to mastering other disciplines, and useful in everyday situations. Topics include language and notation of mathematics.*					
REPEAT FOR CREDI	T YES NO Total	l completions allowed	Within a term?	yes 🗸 no	
materials. Each new co	eroved (S.93-11) that no new course shourse proposal must be accompanied by a.ca/about/overview/collections/course	the email that serves as pro			
RATIONALE FOR IN	FRODUCTION OF THIS COURSE				
Designed for SFU's Indigenous University Preparation Pathway (IUPP; formerly Indigenous University Preparation Programme) cohort offerings whereby FAN X99-4 is delivered through two two-unit courses over two academic terms. First with completion of FAN X91 (2 units) followed by FAN X92 (2 units). FAN X91 delivers the first half of the curriculum of FAN X99. FAN X92 delivers the second half of the curriculum of FAN X99.					
Grading Basis: Grad	Grading Basis: Grade.				
*Description is from the FAN X99 Academic Calendar/Course Catalogue:					
Designed for students who need to upgrade their mathematical background in preparation for SFU Q courses. Also recommended for students who wish to refresh skills after several years away from mathematics. An in-depth look at what mathematics is; mathematical reasoning, problem solving and math study skills. Review of fundamental topics and concepts of mathematics and their real-world applications. This course aims to develop students' math study skills, confidence in their quantitative abilities, and to learn how understanding mathematics is both one of the keys to mastering other disciplines, and useful in everyday situations. Students who have taken, have received transfer credit for, or are currently taking any MATH class numbered 100 or higher may not take FAN X99 without the permission from the Department of Mathematics. Students who receive a grade less than C on their first attempt may re-enroll.					



Effective term and year (e.g. FALL 2016) Summer 2023				
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: 30				
UNITS Indicate number of units: Two (2)				
Indicate no. of contact hours:  Lecture 4 Seminar Tutorial Lab Other; explain below				
OTHER				
The class is taught via interactive problem solving sessions lead by the instructor.				
FACULTY Which of your present CFL faculty have the expertise to offer this course?				
Dr. Veselin Jungic, Dr. Sophie Burrill, Dr. Petra Menz, Dr. Joanna Niezen				
WQB DESIGNATION (attach approval from Curriculum Office)				
PREREQUISITE AND / OR COREQUISITE				



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

2. ONE-WAY EQUIVALENCY [is not hard coded in SIMS.]
Students who have taken any MATH course numbered 100 or higher or FAN X92 or FAN X99 first may not then take this course for further credit  2. ONE-WAY EQUIVALENCY [is not hard coded in SIMS.]
take this course for further credit  2. ONE-WAY EQUIVALENCY [is not hard coded in SIMS.]
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.]
4. St. LOIAL TO THE COURT OF ATLANTA IN THE COURT IN SHARE COURT I
FEES
Are there any proposed student fees associated with this course other than tuition fees? YES VO
COURSE – LEVEL EDUCATIONAL GOALS (OPTIONAL)
COURSE LEVEL EDUCATIONAL GOALS (OF HONAL)





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 VO
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
JF Williams, Chair, UCC MATH (jfwillia@sfu.ca) / Mar-y-paz Rivera, IAUPP (iaupp@sfu.ca)





COURSE SUBJECT FAN NUMBER X92					
COURSE TITLE LONG — for Calendar/schedule, no more than 100 characters including spaces and punctuation Foundations of Analytical and Quantitative Reasoning II					
COURSE TITLE SHORT — for enrollment/transcript, no more than 30 characters including spaces and punctuation  Analytel/Quant Reasoning II					
CAMPUS where course will be normally taught:   Burnaby  Surrey  Vancouver  Great Northern Way  Off campus					
<b>COURSE DESCRIPTION</b> — 50 words max. Attach a course outline. Don't include WQB or prerequisites info in this description box.					
An in-depth look at mathematical reasoning, problem solving and math study skills. Develops students' math study skills, confidence in their quantitative abilities, and to learn how understanding mathematics is both one of the keys to mastering other disciplines, and useful in everyday situations. Topics include language and notation of mathematics.*					
REPEAT FOR CREDIT YES NO Total completions allowed Within a term? YES NO					
<b>LIBRARY RESOURCES</b> 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 <a href="www.lib.sfu.ca/about/overview/collections/course-assessments">www.lib.sfu.ca/about/overview/collections/course-assessments</a> .					
RATIONALE FOR INTRODUCTION OF THIS COURSE					
Designed for SFU's Indigenous University Preparation Pathway (IUPP; formerly Indigenous University Preparation Programme cohort offerings whereby FAN X99-4 is delivered through two two-unit courses over two academic terms. First with completion of FAN X91 (2 units) followed by FAN X92 (2 units). FAN X91 delivers the first half of the curriculum of FAN X99. FAN X92 delivers the second half of the curriculum of FAN X99.					
Grading Basis: Grade.					
*Description is from the FAN X99 Academic Calendar/Course Catalogue:					
Designed for students who need to upgrade their mathematical background in preparation for SFU Q courses. Also recommended for students who wish to refresh skills after several years away from mathematics. An in-depth look at what mathematics is; mathematical reasoning, problem solving and math study skills. Review of fundamental topics and concepts of mathematics and their real-world applications. This course aims to develop students' math study skills, confidence in their quantitative abilities, and to learn how understanding mathematics is both one of the keys to mastering other disciplines, and useful in everyday situations. Students who have taken, have received transfer credit for, or are currently taking any MATH class numbered 100 or higher may not take FAN X99 without the permission from the Department of Mathematics. Students who receive a grade less than C on their first attempt may re-enroll.					



Effective term and year (e.g. FALL 2016) Summer 2023			
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: 30			
UNITS Indicate number of units: Two (2)			
Indicate no. of contact hours:  Lecture 4 Seminar Tutorial Lab Other; explain below			
OTHER			
The class is taught via interactive problem solving sessions lead by the instructor.			
FACULTY Which of your present CFL faculty have the expertise to offer this course?			
Dr. Veselin Jungic, Dr. Sophie Burrill, Dr. Petra Menz, Dr. Joanna Niezen			
WQB DESIGNATION (attach approval from Curriculum Office)			
PREREQUISITE AND / OR COREQUISITE			
REQ-FANX91 with a grade of at least a C.			



<b>EQUIVALENT COURSES</b> [For more information on equivalency, see Equivalency Statements under <u>Information about Specific Course components</u> .]
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.  Students who have taken any MATH course numbered 100 or higher first may not then take this course for
further credit
Turther creat
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.
That retevant toursels) in the olank below (ex. 51711-100)) will be accepted in field 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.
Students who have taken FAN X99 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 VI NO
COURSE – LEVEL EDUCATIONAL GOALS (OPTIONAL)
COURSE LEVEL EDUCATIONAL COALS (OF HONAL)



NEW COURSE PROPOSAL 4 OF 4 PAGES

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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
JF Williams, Chair, UCC MATH (jfwillia@sfu.ca) / Mar-y-paz Rivera, IAUPP (iaupp@sfu.ca)



### **NEW COURSE PROPOSAL**

1 of 4 pages

COURSE SUBJECT	MBB	NUMBER 445	
	<b>G</b> — for Calendar/schedule, no more than 100 char bbial Pathogenesis	acters including spaces and punctuation	
COURSE TITLE SHO	RT — for enrollment/transcript, no more than 30 cl Pathogenesis	haracters including spaces and punctuation	
<b>CAMPUS</b> where cours	se will be normally taught: 🖊 Burnaby 🔲 St	urrey Vancouver Great Northe	rn Way Off campus
	10N — 50 words max. Attach a course outline. Don ces in Microbial Pathogenesis with a		
materials. Each new coplease visit www.lib.sft		oved by Senate until funding has been committ at serves as proof of assessment. For more infor	
Immunity there is a course will build on	ers MBB 328 - Introduction to Microbial Patho strong pedagogical rationale to offer students a the introductory course but will focus on the probial agents, resistance and vaccines.	more opportunities to learn about Microb	ial Pathogenesis. This



Effective term and year (e.g. FALL 2016) Summer 2023
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: 3
Indicate no. of contact hours: 3 Lecture Seminar 1 Tutorial Lab Other; explain below
OTHER
FACULTY Which of your present CFL faculty have the expertise to offer this course?
Lisa Craig, Mark Brockman, Amy Lee
WQB DESIGNATION
(attach approval from Curriculum Office)
PREREQUISITE AND / OR COREQUISITE
Prerequisite: MBB 328 and either MBB 326 or HSCI 326, all with a minimum grade of C.



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

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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?
COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)



NEW COURSE PROPOSAL
4 OF 4 PAGES

### RESOURCES

Ingrid Northwood

The second secon
List any outstanding resource issues to be addressed prior to implementation: space, laboratory equipment, etc:
none
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.
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Name of Originator