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SFU OFFICE OF THE VICE-PROVOST, LEARNING & TEACHING

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# MEMORANDUM

ATTENTION: Senate

FROM: Elizabeth Elle, Vice-Chair, Senate Committee on Undergraduate Studies

RE: New Course Proposals

DATE: January 6, 2023

Elmabet Elle

# For information:

Acting under delegated authority at its meeting of January 5, 2023 SCUS approved the following curriculum revisions effective Fall 2023.

# a. Faculty of Arts and Social Sciences

- 1. Department of Philosophy (SCUS 23-04)
- (i) New Course Proposal: PHIL 479-3, Honours Tutorial in Philosophy

# **b.** Faculty of Environment

- 1. Department of Geography (SCUS 23-05)
- (i) New Course Proposals: GEOG 429-4, Racial Capitalism and Beyond

# c. Faculty of Science

- 1. Department of Biological Sciences (SCUS 23-06)
- (i) New Course Proposal: BISC 106-3, Biological Systems for Engineers (Fall 2024)
- 2. Department of Molecular Biology and Biochemistry (SCUS 23-07)
- (i) New Course Proposal: MBB 478-3, Seminar in Molecular Epidemiology of Infectious Diseases

Senators wishing to consult a more detailed report of curriculum revisions may do so on the Senate Docushare repository at <u>https://docushare.sfu.ca/dsweb/View/Collection-12682</u>.

CELL	SENATE COMMITTEE ON
SFU	UNDERGRADUATE STUDIES

1 of 4 pages

COURSE SUBJECT PHIL NUMBER 479
COURSE TITLE LONG — for Calendar/schedule, no more than 100 characters including spaces and punctuation Honours Tutorial in Philosophy
<b>COURSE TITLE SHORT</b> — for enrollment/transcript, no more than 30 characters including spaces and punctuation Honours Tutorial
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.
In PHIL 479, each student will take a paper they wrote in a previous course (typically a 400-level seminar) and develop it into an honours thesis, supervised by the instructor of the previous course. Students may not enroll in PHIL 479 until a faculty member has agreed to supervise them. Open only to those enrolled in Honours in Philosophy. PHIL 479 is required for completion of the program, Honours in Philosophy.
<b>REPEAT FOR CREDIT</b> 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 <u>www.lib.sfu.ca/about/overview/collections/course-assessments</u> .
RATIONALE FOR INTRODUCTION OF THIS COURSE
The introduction of PHIL 479 is one component of the Philosophy Department's reforms to the program Honours in Philosophy. For an explanation of these reforms, and the reasons for them, please see the relevant program modification form.

Effective term and year (e.g. FALL 2016) Fall 2023
Term in which course will typically be offered Spring Summer Fall Other (describe)
Other (describe)
Will this be a required or elective course in the curriculum? Required Elective
What is the probable enrollment when offered? Estimate: 1
UNITS Indicate number of units: 3
Indicate no. of contact hours: Lecture Seminar 3 Tutorial Lab Other; explain below
OTHER

# FACULTY

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

All faculty members will teach PHIL 479 from time to time.

#### WQB DESIGNATION

(attach approval from Curriculum Office)

# PREREQUISITE AND / OR COREQUISITE

Enrolled in the philosophy honours program.



#### SENATE COMMITTEE ON UNDERGRADUATE STUDIES

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.

Students who have taken PHIL 477 or PHIL 478 first may not then take PHIL 479 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				
	_	_		
Are there any proposed student fees associated with this course other than tuition fees?	YES	🖌 NO		

#### COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)

In PHIL 479, students will develop a thorough understanding of their topic area — more than is possible in a 400-level seminar. Students will also write a rigorous and in-depth honours thesis, developing their analytical and writing skills. Optionally, students will give a public presentation of their work, developing their capacity for public speaking and discussion.



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

#### **OTHER IMPLICATIONS**

Final exam required VES NO Criminal Record Check required VES NO

#### **OVERLAP CHECK**

Checking for overlap is the responsiblity 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

Thomas Donaldson, Philosophy Department



COURSE SUBJECT			NUMBER	2			
COURSE TITLE LONG — for	<b>COURSE TITLE LONG</b> — for Calendar/schedule, no more than 100 characters including spaces and punctuation						
COURSE TITLE SHORT — fo	r enrollment/transci	ipt, no more tha	n 30 characters ind	cluding spaces a	nd punctuation		
<b>CAMPUS</b> where course will be	normally taught:	Burnaby	Surrey	Vancouver	Great Norther	n Way	Off campus
COURSE DESCRIPTION — 5	0 words max. Attacl	a course outline	e. Don't include W	VQB or prerequ	uisites info in this des	scription bo	κ.
<b>REPEAT FOR CREDIT</b> <b>LIBRARY RESOURCES</b> NOTE: Senate has approved (S. materials. Each new course prop please visit <u>www.lib.sfu.ca/abou</u>	posal must be accon	course should be panied by the en	nail that serves as j				NO ary library

**RATIONALE FOR INTRODUCTION OF THIS COURSE** 

Effective term and year (e.g. FALL 2016)

Term in which course will typically be of	fered Spring	Summer	Fall		
	Other (d	escribe)			
Will this be a required or elective course i	n the curriculum?	Required	Elective		
What is the probable enrollment when of	fered? Estimate:				
<b>UNITS</b> Indicate number of units:					
Indicate no. of contact hours:	Lecture	Seminar	Tutorial	Lab	Other; explain below

# OTHER

### FACULTY

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

#### WQB DESIGNATION

(attach approval from Curriculum Office)

# PREREQUISITE AND / OR COREQUISITE



#### SENATE COMMITTEE ON UNDERGRADUATE STUDIES

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

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

# COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)



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 r	equired	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



1 of 4 pages

COURSE SUBJECT BISC NUMBER 106					
<b>COURSE TITLE LONG</b> — for Calendar/schedule, no more than 100 characters including spaces and punctuation Biological Systems for Engineers					
<b>COURSE TITLE SHORT</b> — for enrollment/transcript, no more than 30 characters including spaces and punctuation					
Biology for Engineers					
<b>CAMPUS</b> 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.					
Engineering students are introduced to biological levels of organization and biosystems thinking. Specific lecture and lab topics include: cells and cellular processes, DNA, plant biology, animal biology, pathogens, ecology, and biosystems.					
<b>REPEAT FOR CREDIT</b> 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 www.lib.sfu.ca/about/overview/collections/course-assessments.					
RATIONALE FOR INTRODUCTION OF THIS COURSE					
Mechatronic Systems Engineering (MSE) is developing a new Agri-Tech option within their program. The program will help prepare engineers to work in and support the Agri-Tech industry, especially in BC. This course is designed (at the request of FAS) specifically for students in this program, including those who may have no background in biology. The course aims to provide students with foundational knowledge of biological systems that they'll need for the Agri-Tech industry.					
The course is designed for a blended format: asynchronous online lectures (equivalent to 3 hrs/week) and in-person weekly labs (2 hours/week). The lectures will draw on material from BISC 100, 101, and 102, with a focus on topics and examples relevant to the BC Agri-Tech industry. The labs will include both biology focused labs (~8 weeks of labs), as well as biosystems (engineering) focused labs (~4 weeks of labs). The biology labs will run at Surrey and piggyback onto existing BISC 101 labs. In other words, BISC 106 students will complete a subset of the lab activities (with minor modifications) completed by BISC 101 students. From a scheduling perspective, the labs will use the BISC 101 lab space, but will run at a different time.					



Effective term and year (e.g. FALL 2016) Fall 2024
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: 3
Indicate no. of contact hours: Lecture Seminar Tutorial 2 Lab B Other; explain below
OTHER
Blended: lectures are asynchronous, pre-recorded, equivalent to 3 hrs/week; labs are in person 2 hrs/week.

### FACULTY

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

Dr. Ivona Mladenovic	

#### WQB DESIGNATION

(attach approval from Curriculum Office)

# PREREQUISITE AND / OR COREQUISITE

Registration in the MSE program.



#### SENATE COMMITTEE ON UNDERGRADUATE STUDIES

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.

Students who have taken BISC 101 or higher level BISC courses may not 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				
Are there any proposed student fees associated with this course other than tuition fees?	<b>V</b> ES	NO		

#### **COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)**



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

Faculty of Science and BISC are working on coordination of labs for BISC 101, BISC 106 and FIC's offering of BISC courses, which all share the same lab space at Surrey.

## **OTHER IMPLICATIONS**

Final exam required VES NO

### **OVERLAP CHECK**

Checking for overlap is the responsiblity 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

Dr. Ivona Mladenovic



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COURSE SUBJECT MBB	NUMBER 478					
<b>COURSE TITLE LONG</b> — for Calendar/schedule, no more than 100 chara	cters including spaces and punctuation					
Seminar in Molecular Epidemiology of Infectious Diseases						
<b>COURSE TITLE SHORT</b> — for enrollment/transcript, no more than 30 ch	aracters including spaces and punctuation					
Molecular Epidemiology Seminar						
<b>CAMPUS</b> where course will be normally taught: Burnaby Su	rrey Vancouver Great Northern Way Off campus					
<b>COURSE DESCRIPTION</b> — 50 words max. Attach a course outline. Don <sup>2</sup>	t include WQB or prerequisites info in this description box.					
Application of modern molecular methods to epidemiol infectious diseases will be highlighted.	ogical questions. Globally-relevant and emerging					
<b>REPEAT FOR CREDIT</b> YES <b>V</b> 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 www.lib.sfu.ca/about/overview/collections/course-assessments.

# **RATIONALE FOR INTRODUCTION OF THIS COURSE**

The recent Joint Appointment hire (FHS and MBB), Will Hsaio, has taken a course offered by FHS since 2009 (HSCI 478) and modified it to be accessible and relevent to MBB students as well as Health Science students, making this now a foundational course in the recently created Concentration in Infection and Immunity offered by MBB. Both units support the creation of MBB 478 in order to cross-list this course with HSCI 478. MBB and FHS have a long standing tradition of cross-listed courses that are taught by members of both units and that have an almost equal distribution of students from both units enrolled. MBB/HSCI 478 would joint MBB/HSCI 326 and MBB/HSCI 427 in this category.

More specifically, this course is an upper-level, seminar-based undergraduate course designed to build upon existing offerings and link the fundamental principles of molecular biology and epidemiology. The creation of this course reflects the expansion of expertise and student interest in modern molecular techniques applied to the surveillance, prevention and treatment of globally-relevant infectious diseases, thus falling directly within the mandate of the recent creation of a concentration in Infection and Immunity by the MBB department.

Effective term and year (e.g. FALL 2016) Fall 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: Lecture 3 Seminar Tutorial Lab Other; explain below						
OTHER						

# FACULTY

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

Will Hsiao has a joint appointment in MBB and HSCI. Other faculty in HSCI or MBB (Holt, Morin, Brinkman) could also teach this course

#### WQB DESIGNATION

(attach approval from Curriculum Office)

# PREREQUISITE AND / OR COREQUISITE

HSCI 326 or MBB 326 or MBB 331, with a minimum grade of C, or HSCI 338 with a minimum grade of C-.



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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.

Students with credit for HSCI 478 may not take this course for further credit

Does the partner academic unit agree that this is a two-way equivalency? **VES 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.]

FE	ES		

YES

**V**NO

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

# **COURSE - LEVEL EDUCATIONAL GOALS (OPTIONAL)**



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

# **OTHER IMPLICATIONS**

Final exam required VES 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

Ingrid Northwood