

**SUMMARY OF CHANGES for the 2016-2017 CALENDAR**

**Academic Unit: Anthropology**

<b>List new and newly-created programs</b> (and include separate New Program Form for each one):	
No new programs	
<b>List closed programs</b> (and include separate Program Closure Form for each one):	
No deleted programs	
If you are deleting one of your own courses from your program(s) and substituting a course from ANOTHER department or program, OR if you are altering the required courses from another department in your program(s), your unit's representative may be asked to explain this substitution and supply a letter of consent from that other department or program at the Curriculum Committee meeting.	
<b>Note other significant program changes</b> (but not minor "housekeeping" changes, such as substituting one of your own courses for another, etc.)	
No changed programs	
<b>List new course numbers and titles</b> (and enclose separate New Course Form for each one)	
New Course Number (e.g., SWE 209Y1)      Title (e.g., Swedish Novellas)	
ANT338H1	Molecular Anthropology and Human Evolution
<b>List deleted course numbers and titles.</b> Please note that if you are deleting several more courses than you are adding, your unit's representative may be asked to discuss this at the Curriculum Committee meeting.	
No deleted courses	
<b>Course renumberings and Course reweightings</b> (Y1 to H1 or H1 to Y1)	
No course renumberings or reweightings	
<b>Title Changes</b>	
No title changes	

# SUMMARY OF CHANGES for the Science COMMITTEE

## New Course Form: ANT338H1

Designator	Number + Y1/H1	Course Title	L / S / P / T		
ANT	338H1	Molecular Anthropology and Human Evolution	[24L/12P]		
<b>Course description--50 words maximum (text will be edited if too long). Please use present tense.</b>					
Molecular anthropology is an interdisciplinary field combining biology, genetics, evolution and anthropology. In this class, we will explore the use of DNA for the study of past migrations and admixture patterns, the evolution of pathogens, plant and animal domestication and especially the relationships between recent and archaic humans.					
<b>Prerequisite:</b>	ANT203Y1				
<b>Corequisite:</b>					
<b>Exclusion:</b>					
<b>Recommended Preparation:</b>					
<b>Competencies:</b> Which (one or more) of the five competencies would this course help the students to develop? Please indicate in the relevant box whether it would be <b>Some</b> , <b>Much</b> or <b>All</b> .					
	<b>Critical and Creative Thinking</b>	<b>Communication</b>	<b>Information Literacy</b>	<b>Quantitative Reasoning</b>	<b>Social and Ethical Responsibility</b>
<b>Level (None, Notably or Extensively)</b>	Notably	Slightly	Notably	Notably	None
<b>Research or other experiential learning:</b> Does this course include a research or other experiential learning component? If yes, indicate with R or O, and whether Some, Much or All.					
	<b>Research</b>		<b>Other Experiential Learning</b>		
<b>Level (None, Notably or Extensively)</b>	None		None		
Also, if the course includes other experiential learning, <b>please specify the nature of the learning</b>					
• Distinctive Practicals or Laboratories					
<b>OLD Distribution Requirement Status:</b> underline the appropriate category. If uncertain, please email <a href="mailto:kelly@artsci.utoronto.ca">kelly@artsci.utoronto.ca</a> .					
Distribution Requirement Status: This is a Science course					
<b>NEW Breadth Requirement Status:</b> Specify in which <b>one</b> or <b>two</b> categories this course would fall. Note: An H course must be designated as 0.5 FCE breadth credit in exactly <b>one</b> category; a Y course can be designated as either 1.0 FCE breadth credit in exactly <b>one</b> category or 0.5 FCE breadth credit in each of exactly <b>two</b> categories. Academic units are expected to categorize all their courses unless there are pedagogical reasons not to do so.					
Breadth Requirement: Living Things and Their Environment (4)					
<b>Abbreviated Course Title for ROSI (not more than 20 characters including spaces):</b>					
Molecular Anthropol					
<b>Academic Relevance:</b> State the reason for creating the course, and its place in your program(s):					
Provides an introduction to molecular anthropology for the Anthropology (Biological) Major and Archaeology (Specialist) programs.					
<b>Overlap:</b> If course content overlaps with current courses offered by other departments/programs, you <b>MUST</b> include a letter from these units agreeing to your proposal. Please indicate departments consulted below.					
<b>Programs of Study:</b> Name programs for which the course might be suitable. (PLEASE SEND A COPY OF YOUR PROPOSAL TO THESE PROGRAMS).					
<b>Enrolment:</b> State an estimated number, and limitation if any.				30-40; limit of 50	
<b>"Revived" Courses:</b> If listed previously, state last session it appeared in the Calendar:					
<b>Instructor:</b> If not a permanent appointment in the University, his/her name and appointment are required:					
<b>NEW COURSES MUST BE APPROVED BY CHAIR OR PROGRAM DIRECTOR</b>					
<b>Departmental/College resource implications for this new course:</b> the Dean's Office requires a description of the resource requirements for this new course, and an indication whether you can meet these requirements through your existing resources, or have received additional resources from the Dean. Please give details of the resource areas below.					
<b>Instructor(s):</b>	Prof. Bence Viola				
<b>Teaching Assistant(s):</b>	As appropriate according to the formula				
<b>Laboratory Equipment:</b>					
<b>Computing Resources:</b>					
<b>Other:</b>					

## New Course Form: ANT338H1

I will provide these resources from my existing budget.

**DATE:** Feb 5, 2016

**Approved by CHAIR/PROGRAM DIRECTOR?** Yes

# SUMMARY OF CHANGES for the Science COMMITTEE

## SUMMARY OF CHANGES for the 2016-2017 CALENDAR

### Academic Unit: Computer Science

<b>List new and newly-created programs</b> (and include separate New Program Form for each one):	
No new programs	
<b>List closed programs</b> (and include separate Program Closure Form for each one):	
No deleted programs	
If you are deleting one of your own courses from your program(s) and substituting a course from ANOTHER department or program, OR if you are altering the required courses from another department in your program(s), your unit's representative may be asked to explain this substitution and supply a letter of consent from that other department or program at the Curriculum Committee meeting.	
<b>Note other significant program changes</b> (but not minor "housekeeping" changes, such as substituting one of your own courses for another, etc.)	
No changed programs	
<b>List new course numbers and titles</b> (and enclose separate New Course Form for each one)	
New Course Number (e.g., SWE 209Y1) Title (e.g., Swedish Novellas)	
CSC396Y0	Designing Systems for Real World Problems

### New Course Form: CSC396Y0

Designator	Number + Y1/H1	Course Title	L / S / P / T		
CSC	396Y0	Designing Systems for Real World Problems	[TBA]		
<b>Course description</b> --50 words maximum (text will be edited if too long). Please use present tense.					
This Summer Abroad special offering provides students with an opportunity to explore new environments, which improves their ability to see their own world with increased sensitivity and germinates new design ideas. In this course, students will identify a real problem in the world and work in groups on projects addressing this problem. Students will explore their problem space and the people within that space, identify needs, constraints, and requirements, and ultimately design solution. Their designs will be iterated by gathering feedback and usability testing the early prototypes. The course projects will culminate with development of a technological solution that addresses the identified problem. Final project presentations will take place at the end of the course. Not eligible for CR/NCR.					
<b>Prerequisite:</b>	Any CSC half course, and balloting				
<b>Corequisite:</b>					
<b>Exclusion:</b>					
<b>Recommended Preparation:</b>					
<b>Competencies:</b> Which (one or more) of the five competencies would this course help the students to develop? Please indicate in the relevant box whether it would be <b>Some</b> , <b>Much</b> or <b>All</b> .					
	<b>Critical and Creative Thinking</b>	<b>Communication</b>	<b>Information Literacy</b>	<b>Quantitative Reasoning</b>	<b>Social and Ethical Responsibility</b>
<b>Level (None, Notably or Extensively)</b>	None	None	None	None	None
<b>Research or other experiential learning:</b> Does this course include a research or other experiential learning component? If yes, indicate with R or O, and whether Some, Much or All.					
	<b>Research</b>			<b>Other Experiential Learning</b>	
<b>Level (None, Notably or Extensively)</b>	None			Notably	
<b>Also, if the course includes other experiential learning, please specify the nature of the learning</b>					
<ul style="list-style-type: none"> <li>• International Experience</li> <li>• Study Abroad</li> </ul>					
<b>OLD Distribution Requirement Status:</b> underline the appropriate category. If uncertain, please email <a href="mailto:kelly@artsci.utoronto.ca">kelly@artsci.utoronto.ca</a> .					
Distribution Requirement Status: This is a Science course					

# New Course Form: CSC396Y0

**NEW Breadth Requirement Status:** Specify in which **one** or **two** categories this course would fall. Note: An H course must be designated as 0.5 FCE breadth credit in exactly **one** category; a Y course can be designated as either 1.0 FCE breadth credit in exactly **one** category or 0.5 FCE breadth credit in each of exactly **two** categories. Academic units are expected to categorize all their courses unless there are pedagogical reasons not to do so.

Breadth Requirement: The Physical and Mathematical Universes (5)

**Abbreviated Course Title for ROSI (not more than 20 characters including spaces):**

Designing Systems fo

**Academic Relevance:** State the reason for creating the course, and its place in your program(s):

Provides a full-year Summer Abroad option for students in CS programs, or interested in applying CS more broadly

**Overlap:** If course content overlaps with current courses offered by other departments/programs, you **MUST** include a letter from these units agreeing to your proposal. Please indicate departments consulted below.

**Programs of Study:** Name programs for which the course might be suitable. (PLEASE SEND A COPY OF YOUR PROPOSAL TO THESE PROGRAMS).

**Enrolment:** State an estimated number, and limitation if any.

TBD by Summer Abroad office

**"Revived" Courses:** If listed previously, state last session it appeared in the Calendar:

**Instructor:** If not a permanent appointment in the University, his/her name and appointment are required:

Ilona Posner, SL

**NEW COURSES MUST BE APPROVED BY CHAIR OR PROGRAM DIRECTOR**

**Departmental/College resource implications for this new course:** the Dean's Office requires a description of the resource requirements for this new course, and an indication whether you can meet these requirements through your existing resources, or have received additional resources from the Dean. Please give details of the resource areas below.

**Instructor(s):** Ilona Posner

**Teaching Assistant(s):** n/a

**Laboratory Equipment:** none

**Computing Resources:** none

**Other:** Support through WDW Summer Abroad office

I will provide these resources from my existing budget.

**DATE:** Feb 5, 2016

**Approved by CHAIR/PROGRAM DIRECTOR?** Yes

# SUMMARY OF CHANGES for the Science COMMITTEE

## SUMMARY OF CHANGES for the 2016-2017 CALENDAR

### Academic Unit: Physiology

<b>List new and newly-created programs</b> (and include separate New Program Form for each one):	
No new programs	
<b>List closed programs</b> (and include separate Program Closure Form for each one):	
No deleted programs	
If you are deleting one of your own courses from your program(s) and substituting a course from ANOTHER department or program, OR if you are altering the required courses from another department in your program(s), your unit's representative may be asked to explain this substitution and supply a letter of consent from that other department or program at the Curriculum Committee meeting.	
<b>Note other significant program changes</b> (but not minor "housekeeping" changes, such as substituting one of your own courses for another, etc.)	
No changed programs	
<b>List new course numbers and titles</b> (and enclose separate New Course Form for each one)	
New Course Number (e.g., SWE 209Y1)      Title (e.g., Swedish Novellas)	
PSL377H1	Field Course: One Health - Marine animals as sentinel species for human health
<b>List deleted course numbers and titles.</b> Please note that if you are deleting several more courses than you are adding, your unit's representative may be asked to discuss this at the Curriculum Committee meeting.	
No deleted courses	
<b>Course renumberings and Course reweightings</b> (Y1 to H1 or H1 to Y1)	
No course renumberings or reweightings	
<b>Title Changes</b>	
No title changes	

# SUMMARY OF CHANGES for the Science COMMITTEE

## New Course Form: PSL377H1

Designator	Number + Y1/H1	Course Title	L / S / P / T		
PSL	377H1	Field Course: One Health - Marine animals as sentinel species for human health	[24P]		
<b>Course description</b> --50 words maximum (text will be edited if too long). Please use present tense.					
This field course provides hands-on experience in physiological systems-based studies of resident sharks in the Bay of Fundy, Nova Scotia, to better understand their physiologic responses to stressors (eg recent changes in water temperature, salinity, contaminant levels etc.) and implications of these changes to human health (termed One Health).					
<b>Prerequisite:</b>	PSL280H1/PSL201Y1/(PSL300H1+PSL301H1)/PSL302Y1/CSB or EEB equivalent in Animal Physiology				
<b>Corequisite:</b>					
<b>Exclusion:</b>					
<b>Recommended Preparation:</b>					
<b>Competencies:</b> Which (one or more) of the five competencies would this course help the students to develop? Please indicate in the relevant box whether it would be <b>Some</b> , <b>Much</b> or <b>All</b> .					
	<b>Critical and Creative Thinking</b>	<b>Communication</b>	<b>Information Literacy</b>	<b>Quantitative Reasoning</b>	<b>Social and Ethical Responsibility</b>
<b>Level (None, Notably or Extensively)</b>	Extensively	Extensively	Notably	Extensively	Extensively
<b>Research or other experiential learning:</b> Does this course include a research or other experiential learning component? If yes, indicate with R or O, and whether Some, Much or All.					
	<b>Research</b>		<b>Other Experiential Learning</b>		
<b>Level (None, Notably or Extensively)</b>	Extensively		Extensively		
Also, if the course includes other experiential learning, <b>please specify the nature of the learning</b>					
<ul style="list-style-type: none"> <li>• Distinctive Practicals or Laboratories</li> <li>• Fieldwork</li> <li>• Internships</li> </ul>					
<b>OLD Distribution Requirement Status:</b> underline the appropriate category. If uncertain, please email <a href="mailto:kelly@artsci.utoronto.ca">kelly@artsci.utoronto.ca</a> .					
Distribution Requirement Status: This is a Science course					
<b>NEW Breadth Requirement Status:</b> Specify in which <b>one</b> or <b>two</b> categories this course would fall. Note: An H course must be designated as 0.5 FCE breadth credit in exactly <b>one</b> category; a Y course can be designated as either 1.0 FCE breadth credit in exactly <b>one</b> category or 0.5 FCE breadth credit in each of exactly <b>two</b> categories. Academic units are expected to categorize all their courses unless there are pedagogical reasons not to do so.					
Breadth Requirement: Living Things and Their Environment (4)					
Abbreviated Course Title for ROSI (not more than 20 characters including spaces):					
Field Course: One He					
<b>Academic Relevance:</b> State the reason for creating the course, and its place in your program(s):					
Provides a topical and applied hands-on experience in an important aspect of Physiology; and also provides an additional option for undergraduates in Physiology programs.					
<b>Overlap:</b> If course content overlaps with current courses offered by other departments/programs, you <b>MUST</b> include a letter from these units agreeing to your proposal. Please indicate departments consulted below.					
Programs of Study: Name programs for which the course might be suitable. (PLEASE SEND A COPY OF YOUR PROPOSAL TO THESE PROGRAMS).					
<b>Enrolment:</b> State an estimated number, and limitation if any.				10 max; min 5	
<b>"Revived" Courses:</b> If listed previously, state last session it appeared in the Calendar:					
<b>Instructor:</b> If not a permanent appointment in the University, his/her name and appointment are required:					
<b>NEW COURSES MUST BE APPROVED BY CHAIR OR PROGRAM DIRECTOR</b>					
<b>Departmental/College resource implications for this new course:</b> the Dean's Office requires a description of the resource requirements for this new course, and an indication whether you can meet these requirements through your existing resources, or have received additional resources from the Dean. Please give details of the resource areas below.					
<b>Instructor(s):</b>	Prof. Carin Wittnich				

## New Course Form: PSL377H1

<b>Teaching Assistant(s):</b>	n/a
<b>Laboratory Equipment:</b>	All available locally
<b>Computing Resources:</b>	See above
<b>Other:</b>	none
I will provide these resources from my existing budget.	
<b>DATE:</b>	Feb 5, 2016
<b>Approved by CHAIR/PROGRAM DIRECTOR?</b>	Yes



# SUMMARY OF CHANGES for the Science COMMITTEE

## SUMMARY OF CHANGES for the 2016-2017 CALENDAR

Academic Unit: University College

<b>List new and newly-created programs</b> (and include separate New Program Form for each one):
No new programs
<b>List closed programs</b> (and include separate Program Closure Form for each one):
No deleted programs
If you are deleting one of your own courses from your program(s) and substituting a course from ANOTHER department or program, OR if you are altering the required courses from another department in your program(s), your unit's representative may be asked to explain this substitution and supply a letter of consent from that other department or program at the Curriculum Committee meeting.
<b>Note other significant program changes</b> (but not minor "housekeeping" changes, such as substituting one of your own courses for another, etc.)
• <b>Cognitive Science (Science Program) Major</b> - change in admission requirements
<b>List new course numbers and titles</b> (and enclose separate New Course Form for each one)
No new courses
<b>List deleted course numbers and titles.</b> Please note that if you are deleting several more courses than you are adding, your unit's representative may be asked to discuss this at the Curriculum Committee meeting.
No deleted courses
<b>Course renumberings and Course reweightings</b> (Y1 to H1 or H1 to Y1)
No course renumberings or reweightings
<b>Title Changes</b>
No title changes

# Cognitive Science (Science Program) Major

(8 FCE)

This is a Type 2 program. Enrolment is limited and admission requires the completion of either [COG250Y1](#), or a combination of 1.5 FCE in CSC, LIN, PHL, PSY (no more than 1 FCE from a single department). Please note that meeting the minimum admission requirements does not guarantee one a spot in any one of our programs, depending on the number of program spaces available.

Note that some Computer Science courses included below under Streams 1 and 2 have unlisted co- or prerequisites. Please consult the Faculty of Arts and Science Course Calendar. Those interested in the Science Major are advised to consider also registering for a Computer Science Specialist, Major, or Minor (for Stream 1) or a Human Biology Neuroscience Specialist or Major (for Stream 2).

First Year:

[CSC108H1/CSC120H1](#) (recommended option); [CSC148H1](#); [MAT135H1](#) and [MAT136H1](#) (or [MAT137Y1](#)); [COG250Y1](#) (may be taken as a corequisite in Year 2)

Second Year:

[STA220H1/STA257H1/PSY201H1](#)

Second Year and Higher:

[PHL342H1](#); [PSY473H1/PSY493H1](#); and 3 FCEs from one of Stream 1 or 2:

*Stream 1: Computational Cognition*

Computational cognition is the interdisciplinary study of the information-processing underpinnings of cognitive mental processes. It seeks an understanding of cognition in mathematical terms and to apply this understanding to debates in artificial intelligence, cognitive psychology, and beyond.

No more than 1.5 FCEs of the 3 FCEs required from this list of options may come from any single 3-letter course designator, except for CSC courses. For CSC courses, a minimum of 1 FCE and up to 2 FCEs may be chosen. At least 1 FCE of the 3 FCEs must be at the 300+-

level. [CSC207H1](#); [CSC304H1](#); [CSC321H1](#); [CSC324H1](#); [CSC384H1](#); [CSC401H1](#); [CSC420H1](#); [CSC485H1](#); [CSC486H1](#); [COG341H1/COG342H1](#); [LIN100Y1](#); [LIN228H1](#); [LIN232H1](#); [LIN241H1](#); [JLP315H1](#); [LIN323H1](#); [LIN331H1](#); [LIN341H1](#); [JLP374H1](#); [JLP471H1](#); [PHL240H1](#); [PHL245H1/CSC330H1](#); [PHL246H1](#); [PHL345H1](#); [PHL347H1](#); [PHL348H1](#); [PHL349H1](#); [PHL355H1](#); [PSY210H1](#); [PSY220H1](#); [PSY230H1](#); [PSY260H1](#); [PSY270H1](#); [PSY280H1](#); [PSY290H1](#); [PSY312H1](#); [PSY305H1](#); [PSY316H1](#); [PSY330H1](#); [PSY331H1](#); [PSY362H1](#); [PSY370H1](#); [PSY371H1](#); [PSY372H1](#); [PSY378H1](#); [PSY379H1](#); [PSY380H1](#); [PSY414H1](#); [PSY475H1](#); [NEW232Y1](#); [NEW333H1](#); [NEW438H1](#)

[COG499H1](#)

*Stream 2: Cognition and the Brain*

Today's cognitive scientists are more interested than ever before in the way the brain implements the information-processing underpinnings of cognitive mental processes. The study of cognition and the brain is the study, grounded in cognitive neuroscience, of those aspects of brain activity directly relevant to the performance of cognitive functions.

[BIO120H1](#) and [BIO220H1](#) (or [BIO150Y1](#)); and 2 FCEs of the following courses, with at least 1 FCE coming from PSY courses. At least 0.5 FCE of the 2 FCEs must be at the 300+ level. [CSC207H1](#); [CSC321H1](#); [PHL355H1](#); [PHL357H1](#); [PSY270H1](#); [PSY280H1](#); [PSY290H1](#); [PSY312H1](#); [PSY316H1](#); [PSY331H1](#); [PSY362H1](#); [PSY380H1](#); [PSY390H1](#); [PSY396H1](#); [PSY397H1](#); [PSY473H1](#); [PSY492H1](#); [PSY494H1](#); [COG341H1](#)/[COG342H1](#); [NEW232Y1](#); [NEW333H1](#); [NEW438H1](#); [JLP471H1](#); [JLS472H1](#); [JLS473H1](#)  
[COG499H1](#)

Fourth Year:

[COG402H1](#)