Cognitive Science

This section presents the requirements for programs in:

- Cognitive Science with Concentration in Philosophical and Conceptual Issues Bachelor of Cognitive Science Honours
- Cognitive Science with Concentration in Language and Linguistics Bachelor of Cognitive Science Honours
- Cognitive Science with Concentration in the Biological Foundations of Cognition Bachelor of Cognitive Science Honours
- Cognitive Science with Concentration in Cognition and Psychology Bachelor of Cognitive Science Honours
- Cognitive Science with Concentration in Cognition and Computation Bachelor of Cognitive Science Honours
- · Cognitive Science Bachelor of Cognitive Science
- · Post-Baccalaureate Diploma in Cognitive Science

Program Requirements

Cognitive Science with Concentration in Philosophical and Conceptual Issues

Bachelor of Cognitive Science Honours (20.0 credits)

Α.	Credits Included in	n the Major CGPA (15.5 credits)	
1.	1.0 credit from:		1.0
	CGSC 1001 [0.5]	Mysteries of the Mind	
	FYSM 1607 [1.0]	Cognitive Science: Thinking and Knowing	
	PHIL 1301 [0.5]	Mind, World, and Knowledge	
2.	1.0 credit in:		1.0
	CGSC 2001 [0.5]	Theories in Cognitive Science	
	CGSC 2002 [0.5]	Methods in Cognitive Science	
3.	1.0 credit in:		1.0
	CGSC at the 3000-	level or above	
4.	0.5 credit from:		0.5
	CGSC 1005 [0.5]	Computational Methods in Cognitive Science	
	COMP 1005 [0.5]	Introduction to Computer Science I	
5.	0.5 credit in:		0.5
	CGSC 3601 [0.5]	Artificial Intelligence and Cognitive Science	
6.	0.5 credit in:		0.5
	LING 1001 [0.5]	Introduction to Linguistics I	
7.	1.0 credit in:		1.0
	LING 2005 [0.5]	Linguistic Analysis	
	LING 2007 [0.5]	Phonetics	
8.	1.0 credit in:		1.0
	PHIL 2001 [0.5]	Introduction to Logic	
	PHIL 2501 [0.5]	Introduction to Philosophy of Mind	
9.	0.5 credit from:		0.5
	CGSC 3004 [0.5]	Philosophy and Cognitive Science	
	PHIL 2301 [0.5]	Introduction to the Philosophy of Science	
	PHIL 2504 [0.5]	Language and Communication	
	PHIL 3104 [0.5]	The Roots of Analytic Philosophy	
	PHIL 3301 [0.5]	Issues in the Philosophy of Science	
	PHIL 3306 [0.5]	Symbolic Logic	

PHIL 3501 [0.5]	Philosophy of Cognitive Science	
PHIL 3502 [0.5]	Mind and Action	
PHIL 3504 [0.5]	Pragmatics	
PHIL 3506 [0.5]	Semantics	
PHIL 3530 [0.5]	Philosophy of Language	
10. 2.0 credits in:		2.0
PSYC 1001 [0.5]	Introduction to Psychology I	
PSYC 1002 [0.5]	Introduction to Psychology II	
PSYC 2001 [0.5]	Introduction to Research Methods	
[]	in Psychology	
PSYC 2700 [0.5]	Introduction to Cognitive	
	Psychology	
11. 0.5 credit from:		0.5
NEUR 1202 [0.5]	Neuroscience of Mental Health and	
	Psychiatric Disease	
PSYC 2307 [0.5]	Human Neuropsychology I	
12. 1.5 credits from	:	1.5
a. Thesis pathway	/	
CGSC 3908 [0.5]	Honours Seminar in Cognitive Science	
CGSC 4908 [1.0]	Honours Thesis	
OR		
b. Project pathwa	У	
CGSC 4909 [1.0]	Honours Project	
and 0.5 credit in C	GSC at the 3000-level or above	
OR		
c. Coursework pa	thway	
	C, COMP, LING, NEUR, PHIL, or	
PSYC at the 3000-		
13. 4.5 credits in the	concentration.	4.5
		4.5
a. 4.0 credits from:		4.5
a. 4.0 credits from: CGSC 3004 [0.5]	Philosophy and Cognitive Science	4.5
a. 4.0 credits from: CGSC 3004 [0.5] PHIL 2301 [0.5]		4.5
a. 4.0 credits from: CGSC 3004 [0.5]	Philosophy and Cognitive Science Introduction to the Philosophy of Science Language and Communication	4.5
a. 4.0 credits from: CGSC 3004 [0.5] PHIL 2301 [0.5]	Philosophy and Cognitive Science Introduction to the Philosophy of Science	т.3
a. 4.0 credits from: CGSC 3004 [0.5] PHIL 2301 [0.5] PHIL 2504 [0.5]	Philosophy and Cognitive Science Introduction to the Philosophy of Science Language and Communication	т.5
a. 4.0 credits from: CGSC 3004 [0.5] PHIL 2301 [0.5] PHIL 2504 [0.5] PHIL 2540 [0.5]	Philosophy and Cognitive Science Introduction to the Philosophy of Science Language and Communication Personal Identity and the Self	
a. 4.0 credits from: CGSC 3004 [0.5] PHIL 2301 [0.5] PHIL 2504 [0.5] PHIL 2540 [0.5] PHIL 3104 [0.5] PHIL 3140 [0.5] PHIL 3301 [0.5]	Philosophy and Cognitive Science Introduction to the Philosophy of Science Language and Communication Personal Identity and the Self The Roots of Analytic Philosophy	
a. 4.0 credits from: CGSC 3004 [0.5] PHIL 2301 [0.5] PHIL 2504 [0.5] PHIL 2540 [0.5] PHIL 3104 [0.5] PHIL 3140 [0.5]	Philosophy and Cognitive Science Introduction to the Philosophy of Science Language and Communication Personal Identity and the Self The Roots of Analytic Philosophy Epistemology	
a. 4.0 credits from: CGSC 3004 [0.5] PHIL 2301 [0.5] PHIL 2504 [0.5] PHIL 2540 [0.5] PHIL 3104 [0.5] PHIL 3140 [0.5] PHIL 3301 [0.5]	Philosophy and Cognitive Science Introduction to the Philosophy of Science Language and Communication Personal Identity and the Self The Roots of Analytic Philosophy Epistemology Issues in the Philosophy of Science	
a. 4.0 credits from: CGSC 3004 [0.5] PHIL 2301 [0.5] PHIL 2504 [0.5] PHIL 2540 [0.5] PHIL 3104 [0.5] PHIL 3140 [0.5] PHIL 3301 [0.5] PHIL 3306 [0.5]	Philosophy and Cognitive Science Introduction to the Philosophy of Science Language and Communication Personal Identity and the Self The Roots of Analytic Philosophy Epistemology Issues in the Philosophy of Science Symbolic Logic	
a. 4.0 credits from: CGSC 3004 [0.5] PHIL 2301 [0.5] PHIL 2504 [0.5] PHIL 2540 [0.5] PHIL 3104 [0.5] PHIL 3140 [0.5] PHIL 3301 [0.5] PHIL 3306 [0.5] PHIL 3501 [0.5]	Philosophy and Cognitive Science Introduction to the Philosophy of Science Language and Communication Personal Identity and the Self The Roots of Analytic Philosophy Epistemology Issues in the Philosophy of Science Symbolic Logic Philosophy of Cognitive Science	
a. 4.0 credits from: CGSC 3004 [0.5] PHIL 2301 [0.5] PHIL 2504 [0.5] PHIL 2540 [0.5] PHIL 3104 [0.5] PHIL 3140 [0.5] PHIL 3301 [0.5] PHIL 3306 [0.5] PHIL 3501 [0.5] PHIL 3502 [0.5]	Philosophy and Cognitive Science Introduction to the Philosophy of Science Language and Communication Personal Identity and the Self The Roots of Analytic Philosophy Epistemology Issues in the Philosophy of Science Symbolic Logic Philosophy of Cognitive Science Mind and Action	
a. 4.0 credits from: CGSC 3004 [0.5] PHIL 2301 [0.5] PHIL 2504 [0.5] PHIL 2540 [0.5] PHIL 3104 [0.5] PHIL 3140 [0.5] PHIL 3301 [0.5] PHIL 3306 [0.5] PHIL 3501 [0.5] PHIL 3502 [0.5] PHIL 3504 [0.5]	 Philosophy and Cognitive Science Introduction to the Philosophy of Science Language and Communication Personal Identity and the Self The Roots of Analytic Philosophy Epistemology Issues in the Philosophy of Science Symbolic Logic Philosophy of Cognitive Science Mind and Action Pragmatics 	T. 0
a. 4.0 credits from: CGSC 3004 [0.5] PHIL 2301 [0.5] PHIL 2504 [0.5] PHIL 2540 [0.5] PHIL 3104 [0.5] PHIL 3140 [0.5] PHIL 3301 [0.5] PHIL 3306 [0.5] PHIL 3502 [0.5] PHIL 3504 [0.5] PHIL 3506 [0.5]	Philosophy and Cognitive Science Introduction to the Philosophy of Science Language and Communication Personal Identity and the Self The Roots of Analytic Philosophy Epistemology Issues in the Philosophy of Science Symbolic Logic Philosophy of Cognitive Science Mind and Action Pragmatics Semantics	T. 0
a. 4.0 credits from: CGSC 3004 [0.5] PHIL 2301 [0.5] PHIL 2504 [0.5] PHIL 2540 [0.5] PHIL 3104 [0.5] PHIL 3140 [0.5] PHIL 3301 [0.5] PHIL 3306 [0.5] PHIL 3501 [0.5] PHIL 3504 [0.5] PHIL 3504 [0.5] PHIL 3506 [0.5] PHIL 3530 [0.5]	Philosophy and Cognitive Science Introduction to the Philosophy of Science Language and Communication Personal Identity and the Self The Roots of Analytic Philosophy Epistemology Issues in the Philosophy of Science Symbolic Logic Philosophy of Cognitive Science Mind and Action Pragmatics Semantics	T. 0
a. 4.0 credits from: CGSC 3004 [0.5] PHIL 2301 [0.5] PHIL 2504 [0.5] PHIL 2540 [0.5] PHIL 3104 [0.5] PHIL 3140 [0.5] PHIL 3301 [0.5] PHIL 3306 [0.5] PHIL 3501 [0.5] PHIL 3502 [0.5] PHIL 3506 [0.5] PHIL 3506 [0.5] PHIL 3500 [0.5] PHIL 3500 [0.5] b. 0.5 credit from:	Philosophy and Cognitive Science Introduction to the Philosophy of Science Language and Communication Personal Identity and the Self The Roots of Analytic Philosophy Epistemology Issues in the Philosophy of Science Symbolic Logic Philosophy of Cognitive Science Mind and Action Pragmatics Semantics Philosophy of Language	T. 0
a. 4.0 credits from: CGSC 3004 [0.5] PHIL 2301 [0.5] PHIL 2504 [0.5] PHIL 2540 [0.5] PHIL 3104 [0.5] PHIL 3104 [0.5] PHIL 3301 [0.5] PHIL 3306 [0.5] PHIL 3501 [0.5] PHIL 3502 [0.5] PHIL 3504 [0.5] PHIL 3506 [0.5] PHIL 3530 [0.5] PHIL 3530 [0.5] PHIL 4055 [0.5]	Philosophy and Cognitive Science Introduction to the Philosophy of Science Language and Communication Personal Identity and the Self The Roots of Analytic Philosophy Epistemology Issues in the Philosophy of Science Symbolic Logic Philosophy of Cognitive Science Mind and Action Pragmatics Semantics Philosophy of Language Lexical Semantics Seminar in philosophy of Language	T. 0
a. 4.0 credits from: CGSC 3004 [0.5] PHIL 2301 [0.5] PHIL 2504 [0.5] PHIL 2540 [0.5] PHIL 3104 [0.5] PHIL 3104 [0.5] PHIL 3301 [0.5] PHIL 3306 [0.5] PHIL 3501 [0.5] PHIL 3502 [0.5] PHIL 3504 [0.5] PHIL 3506 [0.5] PHIL 3506 [0.5] PHIL 3530 [0.5] PHIL 4555 [0.5] PHIL 4210 [0.5]	Philosophy and Cognitive Science Introduction to the Philosophy of Science Language and Communication Personal Identity and the Self The Roots of Analytic Philosophy Epistemology Issues in the Philosophy of Science Symbolic Logic Philosophy of Cognitive Science Mind and Action Pragmatics Semantics Philosophy of Language Lexical Semantics Seminar in philosophy of Language or Linguistics Seminar in philosophy of Mind or	T. 0
a. 4.0 credits from: CGSC 3004 [0.5] PHIL 2301 [0.5] PHIL 2504 [0.5] PHIL 2540 [0.5] PHIL 3104 [0.5] PHIL 3104 [0.5] PHIL 3140 [0.5] PHIL 3301 [0.5] PHIL 3306 [0.5] PHIL 3502 [0.5] PHIL 3504 [0.5] PHIL 3506 [0.5] PHIL 3506 [0.5] PHIL 3506 [0.5] PHIL 4210 [0.5] PHIL 4220 [0.5]	Philosophy and Cognitive Science Introduction to the Philosophy of Science Language and Communication Personal Identity and the Self The Roots of Analytic Philosophy Epistemology Issues in the Philosophy of Science Symbolic Logic Philosophy of Cognitive Science Mind and Action Pragmatics Semantics Philosophy of Language Lexical Semantics Seminar in philosophy of Language or Linguistics Seminar in philosophy of Mind or Cognition Seminar in Metaphysics, Epistemology, or Philosophy of	T. 0

14. 4.5 credits in free electives.	4.5
Total Credits	20.0

Note: normally, students may not offer more than one credit of independent study (eg. CGSC 4801 Independent Study and CGSC 4802 Independent Study) in their total program, including independent study credits taken through other departments.

Cognitive Science with Concentration in Language and Linguistics Bachelor of Cognitive Science Honours (20.0 credits)

•	ounoj		
Α.	Credits Included i	n the Major CGPA (15.5 credits)	
1.	1.0 credit from:		1.0
	CGSC 1001 [0.5]	Mysteries of the Mind	
	FYSM 1607 [1.0]	Cognitive Science: Thinking and Knowing	
	PHIL 1301 [0.5]	Mind, World, and Knowledge	
2.	1.0 credit in:		1.0
	CGSC 2001 [0.5]	Theories in Cognitive Science	
	CGSC 2002 [0.5]	Methods in Cognitive Science	
3.	1.0 credit in:		1.0
	CGSC at the 3000-	level or above	
4.	0.5 credit from:		0.5
	CGSC 1005 [0.5]	Computational Methods in Cognitive Science	
	COMP 1005 [0.5]	Introduction to Computer Science I	
5.	0.5 credit in:		0.5
	CGSC 3601 [0.5]	Artificial Intelligence and Cognitive Science	
6.	0.5 credit in:		0.5
	LING 1001 [0.5]	Introduction to Linguistics I	
7.	1.0 credit in:		1.0
	LING 2005 [0.5]	Linguistic Analysis	
	LING 2007 [0.5]	Phonetics	
8.	1.0 credit in:		1.0
	PHIL 2001 [0.5]	Introduction to Logic	
	PHIL 2501 [0.5]	Introduction to Philosophy of Mind	
9.	0.5 credit from:		0.5
	CGSC 3004 [0.5]	Philosophy and Cognitive Science	
	PHIL 2301 [0.5]	Introduction to the Philosophy of Science	
	PHIL 2504 [0.5]	Language and Communication	
	PHIL 3104 [0.5]	The Roots of Analytic Philosophy	
	PHIL 3301 [0.5]	Issues in the Philosophy of Science	
	PHIL 3306 [0.5]	Symbolic Logic	
	PHIL 3501 [0.5]	Philosophy of Cognitive Science	
	PHIL 3502 [0.5]	Mind and Action	
	PHIL 3504 [0.5]	Pragmatics	
	PHIL 3506 [0.5]	Semantics	
	PHIL 3530 [0.5]	Philosophy of Language	
10	. 2.0 credits in:		2.0
	PSYC 1001 [0.5]	Introduction to Psychology I	
	PSYC 1002 [0.5]	Introduction to Psychology II	
	PSYC 2001 [0.5]	Introduction to Research Methods in Psychology	
	PSYC 2700 [0.5]	Introduction to Cognitive Psychology	

11.	0.5 credit from:		0.5
Ν	NEUR 1202 [0.5]	Neuroscience of Mental Health and Psychiatric Disease	
F	PSYC 2307 [0.5]	Human Neuropsychology I	
12.	1.5 credits from:		1.5
а	a. Thesis pathway		
C	CGSC 3908 [0.5]	Honours Seminar in Cognitive Science	
C	CGSC 4908 [1.0]	Honours Thesis	
C	DR		
b	o. Project pathway		
C	CGSC 4909 [1.0]	Honours Project	
а	and 0.5 credit in CG	SC at the 3000-level or above	
C	DR		
C	. Coursework pat	hway	
	.5 credits in CGSC PSYC at the 3000-le	, COMP, LING, NEUR, PHIL, or evel or above	
13.	4.5 credits in the	concentration:	4.5
а	a. 2.5 credits in:		
L	ING 3004 [0.5]	Syntax I	
L	ING 3005 [0.5]	Morphology I	
L	ING 3007 [0.5]	Phonology I	
L	ING 3505 [0.5]	Semantics	
L	.ING 3601 [0.5]	Language Processing and the Brain	
b	o. 1.0 credit from:		
L	ING 2604 [0.5]	Communication Disorders I	
L	ING 3604 [0.5]	Communication Disorders II	
L	ING 3504 [0.5]	Pragmatics	
L	ING 3603 [0.5]	Child Language	
C	. 1.0 credit from:		
L	ING 4004 [0.5]	Syntax II	
L	ING 4005 [0.5]	Morphology II	
L	ING 4007 [0.5]	Phonology II	
L	ING 4505 [0.5]	Formal Semantics	
L	ING 4510 [0.5]	Lexical Semantics	
L	.ING 4601 [0.5]	Cognitive Neuroscience of Language	
L	ING 4603 [0.5]	First Language Acquisition	
L	ING 4605 [0.5]	Psycholinguistic Research Methods	
L	ING 4606 [0.5]	Statistics for Language Research	
в. с	Credits not include	ed in the Major (4.5 credits)	
14.	4.5 credits in free	electives	4.5
Tota	al Credits		20.0

Note: Normally, students may not offer more than one credit of independent study (eg. CGSC 4801 [0.5] Independent Study and CGSC 4802 [0.5] Independent Study) in their total program, including independent study credits taken through other departments.

Cognitive Science with Concentration in the Biological Foundations of Cognition Bachelor of Cognitive Science Honours (20.0 credits)

- A. Credits Included in the Major GPA (15.5 credits)
- 1. 1.0 credit from: CGSC 1001 [0.5] Mysteries of the Mind

	FYSM 1607 [1.0]	Cognitive Science: Thinking and Knowing	
	PHIL 1301 [0.5]	Mind, World, and Knowledge	
2.	1.0 credit in:		1.0
	CGSC 2001 [0.5]	Theories in Cognitive Science	
	CGSC 2002 [0.5]	Methods in Cognitive Science	
3.	1.0 credit in:		1.0
	CGSC at the 3000-	level or above	
4.	0.5 credit from:		0.5
	CGSC 1005 [0.5]	Computational Methods in Cognitive Science	
	COMP 1005 [0.5]	Introduction to Computer Science I	
5.	0.5 credit in:		0.5
	CGSC 3601 [0.5]	Artificial Intelligence and Cognitive Science	
6.	0.5 credit in:		0.5
_	LING 1001 [0.5]	Introduction to Linguistics I	1.0
7.	1.0 credit in:		1.0
	LING 2005 [0.5]	Linguistic Analysis	
	LING 2007 [0.5]	Phonetics	
8.	1.0 credit in:		1.0
	PHIL 2001 [0.5]	Introduction to Logic	
•	PHIL 2501 [0.5]	Introduction to Philosophy of Mind	
9.	0.5 credit from:		0.5
	CGSC 3004 [0.5]	Philosophy and Cognitive Science	
	PHIL 2301 [0.5]	Introduction to the Philosophy of Science	
	PHIL 2504 [0.5]	Language and Communication	
	PHIL 3104 [0.5]	The Roots of Analytic Philosophy	
	PHIL 3301 [0.5]	Issues in the Philosophy of Science	
	PHIL 3306 [0.5]	Symbolic Logic	
	PHIL 3501 [0.5]	Philosophy of Cognitive Science	
	PHIL 3502 [0.5]	Mind and Action	
	PHIL 3504 [0.5]	Pragmatics	
	PHIL 3506 [0.5]	Semantics	
40	PHIL 3530 [0.5]	Philosophy of Language	0.0
10). 2.0 credits in:	late dusting to Develop and	2.0
	PSYC 1001 [0.5]	Introduction to Psychology I	
	PSYC 1002 [0.5]	Introduction to Psychology II	
	PSYC 2001 [0.5]	Introduction to Research Methods in Psychology	
	PSYC 2700 [0.5]	Introduction to Cognitive Psychology	
11	. 0.5 credit in:		0.5
	NEUR 1202 [0.5]	Neuroscience of Mental Health and Psychiatric Disease	
12	2. 1.5 credits from:		1.5
	a. Thesis pathway		
	CGSC 3908 [0.5]	Honours Seminar in Cognitive Science	
	CGSC 4908 [1.0]	Honours Thesis	
	OR		
	b. Project Pathway		
	CGSC 4909 [1.0]		
	and 0.5 credit in CO	SSC at the 3000-level or above	
	c. Coursework pat	hway	

1.5 credits in CGSC, COMP, LING, NEUR, PHIL, or PSYC at the 3000-level or above

13	13. 4.5 credits in the concentration:					
	a. 0.5 credit in:					
	NEUR 1203 [0.5]	Neuroscience of Mental Health and Neurological Disease				
	b. 2.5 credits in:					
	NEUR 2002 [0.5]	Introduction to Statistics in Neuroscience				
	NEUR 2201 [0.5]	Cellular and Molecular Neuroscience				
	NEUR 2202 [0.5]	Neurodevelopment and Plasticity				
	NEUR 3001 [0.5]	Data Analysis in Neuroscience I				
	NEUR 3002 [0.5]	Data Analysis in Neuroscience II				
	c. 1.0 credit from:					
	NEUR 2801 [0.5]	Neuroscience and Creativity				
	NEUR 3204 [0.5]	Neuropharmacology				
	NEUR 3206 [0.5]	Sensory and Motor Neuroscience				
	NEUR 3207 [0.5]	Systems Neuroscience				
	NEUR 3303 [0.5]	The Neuroscience of Consciousness				
	PSYC 3307 [0.5]	Human Neuropsychology II				
	PSYC 3709 [0.5]	Language Processing and the Brain				
	d. 0.5 credit in NEU	IR at the 3000-level or above				
В.	Credits Not Includ	ed in the Major CGPA (4.5 credits)				
14	14. 4.5 credits in free electives.					

Total Credits

Note: normally, students may not offer more than one credit of independent study (eg. CGSC 4801 Independent Study and CGSC 4802 Independent Study) in their total program, including independent study credits taken through other departments.

20.0

Cognitive Science with Concentration in Cognition and Psychology Bachelor of Cognitive Science Honours (20.0 credits)

Α.	Credits Included in	n the Major CGPA (15.5 credits)	
1.	1.0 credit from:		1.0
	CGSC 1001 [0.5]	Mysteries of the Mind	
	FYSM 1607 [1.0]	Cognitive Science: Thinking and Knowing	
	PHIL 1301 [0.5]	Mind, World, and Knowledge	
2.	1.0 credit in:		1.0
	CGSC 2001 [0.5]	Theories in Cognitive Science	
	CGSC 2002 [0.5]	Methods in Cognitive Science	
3.	1.0 credit in:		1.0
	CGSC at the 3000-	level or above	
4.	0.5 credit from:		0.5
	CGSC 1005 [0.5]	Computational Methods in Cognitive Science	
	COMP 1005 [0.5]	Introduction to Computer Science I	
5.	0.5 credit in:		0.5
	CGSC 3601 [0.5]	Artificial Intelligence and Cognitive Science	
6.	0.5 credit in:		0.5
	LING 1001 [0.5]	Introduction to Linguistics I	

7.	1.0 credit in:		1.0
	LING 2005 [0.5]	Linguistic Analysis	
	LING 2007 [0.5]	Phonetics	
8.	1.0 credit in:		1.0
	PHIL 2001 [0.5]	Introduction to Logic	
	PHIL 2501 [0.5]	Introduction to Philosophy of Mind	
9.	0.5 credit from:		0.5
	CGSC 3004 [0.5]	Philosophy and Cognitive Science	
	PHIL 2301 [0.5]	Introduction to the Philosophy of Science	
	PHIL 2504 [0.5]	Language and Communication	
	PHIL 3104 [0.5]	The Roots of Analytic Philosophy	
	PHIL 3301 [0.5]	Issues in the Philosophy of Science	
	PHIL 3306 [0.5]	Symbolic Logic	
	PHIL 3501 [0.5]	Philosophy of Cognitive Science	
	PHIL 3502 [0.5]	Mind and Action	
	PHIL 3504 [0.5]	Pragmatics	
	PHIL 3506 [0.5]	Semantics	
	PHIL 3530 [0.5]	Philosophy of Language	
10	. 2.0 credits in:		2.0
	PSYC 1001 [0.5]	Introduction to Psychology I	
	PSYC 1002 [0.5]	Introduction to Psychology II	
	PSYC 2001 [0.5]	Introduction to Research Methods in Psychology	
	PSYC 2700 [0.5]	Introduction to Cognitive Psychology	
11	. 0.5 credit from:	-)	0.5
	NEUR 1202 [0.5]	Neuroscience of Mental Health and Psychiatric Disease	
	PSYC 2307 [0.5]	Human Neuropsychology I	
12	. 1.5 credits from:		1.5
	a. Thesis pathway		
	CGSC 3908 [0.5]	Honours Seminar in Cognitive Science	
	CGSC 4908 [1.0] OR	Honours Thesis	
	b. Project pathway	,	
	CGSC 4909 [1.0]		
		SSC at the 3000-level or above	
	OR		
	c. Coursework pat	hway	
		, COMP, LING, NEUR, PHIL, or	
12	6. 4.5 credits in the		4.5
10	a. 1.5 credits in:		-1.5
	PSYC 2002 [0.5]	Introduction to Statistics in	
	PSYC 3000 [1.0]	Psychology Design and Analysis in	
		Psychological Research	
		C at the 2000-level or above	
	c. 2.0 credits from:		
	PSYC 3700 [1.0]	Cognition (Honours Seminar)	
	DO1/0	Liver and Maxima and a large it	
	PSYC 3307 [0.5]	Human Neuropsychology II	
	PSYC 3506 [0.5]	Cognitive Development	
	PSYC 3506 [0.5] PSYC 3508 [0.5]	Cognitive Development Child Language	
	PSYC 3506 [0.5]	Cognitive Development	

	NEUR 3303 [0.5]	The Neuroscience of Consciousness	
	d. 0.5 credit in PSY	C at the 4000-level or above	
в		led in the Major CGPA (4.5 credits)	
	. 4.5 credits in free		4.5
	tal Credits		20.0
			20.0
on N St	e credit of indepe dependent Study udy) in their total edits taken throug	dents may not offer more than ndent study (eg. CGSC 4801 [0.5] and CGSC 4802 [0.5] Independen program, including independent st h other departments.	t
C B	ognition and Co	e with Concentration in omputation nitive Science Honours (20.0	
Α.	Credits Included i	n the Major CGPA (15.5 credits)	
	1.0 credit from:	· · · · · · · · · · · · · · · · · · ·	1.0
	CGSC 1001 [0.5]	Mysteries of the Mind	
	FYSM 1607 [1.0]	Cognitive Science: Thinking and Knowing	
	PHIL 1301 [0.5]	Mind, World, and Knowledge	
2.	1.0 credit in:	-	1.0
	CGSC 2001 [0.5]	Theories in Cognitive Science	
	CGSC 2002 [0.5]	Methods in Cognitive Science	
3.	1.0 credit in:		1.0
	CGSC at the 3000-	level or above	
4.	0.5 credit in:		0.5
	COMP 1005 [0.5]	Introduction to Computer Science I	
5.	0.5 credit in:		0.5
	CGSC 3601 [0.5]	Artificial Intelligence and Cognitive Science	
6.	0.5 credit in:		0.5
	LING 1001 [0.5]	Introduction to Linguistics I	
7.	1.0 credit in:		1.0
	LING 2005 [0.5]	Linguistic Analysis	
	LING 2007 [0.5]	Phonetics	
8.	1.0 credit in:		1.0
	PHIL 2001 [0.5]	Introduction to Logic	
	PHIL 2501 [0.5]	Introduction to Philosophy of Mind	
9.	0.5 credit from:		0.5
	PHIL 2301 [0.5]	Introduction to the Philosophy of Science	
	PHIL 2504 [0.5]	Language and Communication	
	PHIL 3104 [0.5]	The Roots of Analytic Philosophy	
	PHIL 3301 [0.5]	Issues in the Philosophy of Science	
	PHIL 3306 [0.5]	Symbolic Logic	
	PHIL 3501 [0.5]	Philosophy of Cognitive Science	
	PHIL 3502 [0.5]	Mind and Action	
	PHIL 3504 [0.5]	Pragmatics	
	PHIL 3506 [0.5]	Semantics	
	PHIL 3530 [0.5]	Philosophy of Language	
	CGSC 3004 [0.5]	Philosophy and Cognitive Science	
10	. 2.0 credits in:		2.0
	PSYC 1001 [0.5]	Introduction to Psychology I	
	PSYC 1002 [0.5]	Introduction to Psychology II	
	PSYC 2001 [0.5]	Introduction to Research Methods in Psychology	

NEUR 3303 [0.5] The Neuroscience of

PSYC 2700 [0.5]	Introduction to Cognitive Psychology	
11. 0.5 credit from:		0.5
PSYC 2307 [0.5]	Human Neuropsychology I	
NEUR 1202 [0.5]	Neuroscience of Mental Health and Psychiatric Disease	
12. 1.5 credits from:		1.5
a. Thesis pathway	,	
CGSC 3908 [0.5]	Honours Seminar in Cognitive Science	
CGSC 4908 [1.0]	Honours Thesis	
OR		
b. Project pathway	y .	
CGSC 4909 [1.0]	Honours Project	
and 0.5 credit in CO	GSC at the 3000-level or higher	
OR		
c. Coursework pa	•	
1.5 credits in CGS0 PSYC at the 3000-	C, COMP, LING, NEUR, PHIL, or level or higher	
13. 4.5 credits in the	concentration:	4.5
a. 0.5 credit in:		
COMP 1006 [0.5]	Introduction to Computer Science II	
b. 0.5 credit in COM	/IP at the 1000-level or higher	
c. 2.0 credits from:		
COMP 2401 [0.5]	Introduction to Systems Programming	
COMP 2402 [0.5]	Abstract Data Types and Algorithms	
COMP 2404 [0.5]	Introduction to Software Engineering	
COMP 2406 [0.5]	Fundamentals of Web Applications	
COMP 2804 [0.5]	Discrete Structures II	
COMP 3008 [0.5]	Human-Computer Interaction	
d. 1.0 credit in COM	/IP at the 2000-level or higher	
e. 0.5 credit in COM	IP at the 3000-level or higher	
B. Credits not includ	ed in the Major CGPA (4.5 credits)	
14. 4.5 credits in free	e electives	4.5
Total Credits		20.0

Note: Normally, students may not offer more than one credit of independent study (eg. CGSC 4801 Independent Study and CGSC 4802 Independent Study) in their total program, including independent study credits taken through other departments.

Cognitive Science Bachelor of Cognitive Science (15.0 credits)

A. Credits Included in the Major CGPA (9.0 credits)

1.	1.0 credit from:		1.0
	CGSC 1001 [0.5]	Mysteries of the Mind	
	FYSM 1607 [1.0]	Cognitive Science: Thinking and Knowing	
	PHIL 1301 [0.5]	Mind, World, and Knowledge	
2.	1.0 credit in:		1.0
	CGSC 2001 [0.5]	Theories in Cognitive Science	
	CGSC 2002 [0.5]	Methods in Cognitive Science	
3.	1.0 credit in CGSC	at the 3000-level or above	1.0
4.	0.5 credit from:		0.5

	CGSC 1005 [0.5]	Computational Methods in Cognitive Science		
	COMP 1005 [0.5]	Introduction to Computer Science I		
5.	1.5 credits in:		1.5	
	LING 1001 [0.5]	Introduction to Linguistics I		
	LING 2005 [0.5]	Linguistic Analysis		
	LING 2007 [0.5]	Phonetics		
6.	1.0 credit in:		1.0	
	PHIL 2001 [0.5]	Introduction to Logic		
	PHIL 2501 [0.5]	Introduction to Philosophy of Mind		
7.	0.5 credit from:		0.5	
	CGSC 3004 [0.5]	Philosophy and Cognitive Science		
	PHIL 2301 [0.5]	Introduction to the Philosophy of Science		
	PHIL 2504 [0.5]	Language and Communication		
	PHIL 3104 [0.5]	The Roots of Analytic Philosophy		
	PHIL 3301 [0.5]	Issues in the Philosophy of Science		
	PHIL 3306 [0.5]	Symbolic Logic		
	PHIL 3501 [0.5]	Philosophy of Cognitive Science		
	PHIL 3502 [0.5]	Mind and Action		
	PHIL 3504 [0.5]	Pragmatics		
	PHIL 3506 [0.5]	Semantics		
	PHIL 3530 [0.5]	Philosophy of Language		
8.	2.0 credits in:		2.0	
	PSYC 1001 [0.5]	Introduction to Psychology I		
	PSYC 1002 [0.5]	Introduction to Psychology II		
	PSYC 2001 [0.5]	Introduction to Research Methods in Psychology		
	PSYC 2700 [0.5]	Introduction to Cognitive Psychology		
9.	0.5 credit from:		0.5	
	NEUR 1202 [0.5]	Neuroscience of Mental Health and Psychiatric Disease		
	PSYC 2307 [0.5]	Human Neuropsychology I		
В.	Credits Not Includ	ed in the Major CGPA (6.0 credits)		
10. 6.0 credits in free electives				
Total Credits				

Post-Baccalaureate Diploma in Cognitive Science (4.0 credits)

Admission to this program requires the permission of the Department of Cognitive Science. Normally, students are required to have completed an undergraduate degree with a minimum B average or higher to be admitted. Applications will be reviewed on a case-by-case basis.

Requirements:

Roquironionitor		
1. 0.5 credit from:		0.5
CGSC 2001 [0.5]	Theories in Cognitive Science	
CGSC 2002 [0.5]	Methods in Cognitive Science	
2. 1.0 credit in:		1.0
CGSC 3601 [0.5]	Artificial Intelligence and Cognitive Science	
CGSC 3908 [0.5]	Honours Seminar in Cognitive Science	
3. 1.5 credits in CGSC at the 3000-level or above		
4. 1.0 credits from:		1.0
CGSC 4908 [1.0]	Honours Thesis	

CGSC 4909 [1.0]	Honours Project

Total Credits	4.0

Regulations

In addition to the program requirements listed in this section, students must satisfy the academic regulations of the university, and the faculty regulations for the Bachelor of Cognitive Science.

Academic Regulations and Requirements for the Bachelor of Cognitive Science Degree

The regulations presented below apply to all Bachelor of Cognitive Science programs. In addition to the requirements presented here, students must satisfy the University regulations common to all undergraduate students including the process of Academic Performance Evaluation (consult the Academic Regulations of the University section of this Calendar).

First-Year Seminars

B.Cog.Sc. degree students are strongly encouraged to include a First-Year Seminar (FYSM) during their first 4.0 credits of registration. Students are limited to 1.0 credit in FYSM (one 1.0-credit FYSM or two 0.5-credit FYSM's) and can only register in a FYSM while they have firstyear standing in their B.Cog.Sc. program. Students who have completed the Enriched Support Program (ESP) or who are required to take a minimum of one English as a Second Language (ESLA) credit are not permitted to register in a FYSM.

Change of Program Within the B.Cog.Sc. Degree

Students may transfer to a program within the B.Cog.Sc. degree, if upon entry to the new program they would be in Good Standing . Other applications for change of program will be considered on their merits;

students may be admitted to the new program in Good Standing or on Academic Warning. Students may apply to declare or change their program within the B.Cog.Sc. Degree at the Registrar's Office according

to the published deadlines. Acceptance into a program or into a program element or option is subject to any enrolment limitations, specific program, program element or option requirements, as published in the relevant Calendar entry.

Minors, Concentrations and Specializations

Students may apply to the Registrar's Office to be admitted to a minor, concentration or specialization during their first or subsequent years of study. Acceptance into a minor, concentration or specialization is subject to any specific requirements of the intended Minor, Concentration or Specialization as published in the relevant Calendar entry. Acceptance into a Concentration or Specialization requires that the student be in Good Standing.

Mention : Français

Students registered in the B.Cog.Sc. may earn the notation Mention: Français by completing part of their requirements in French and by demonstrating a knowledge of the history and culture of French Canada. The general requirements are listed below. Students in the B.Cog.Sc. Honours program must present:

- 1. 1.0 credit in the French language;
- 2. 1.0 credit devoted to the history and culture of French Canada;
- 3. 1.0 credit at the 2000- or 3000-level and 1.0 credit at the 4000-level taken in French. These credits may come from any of Philosophy, Psychology, Computer Science, Linguistics, Neuroscience, or Cognitive Science, without restriction.

Students in the B.Cog.Sc. General program must present:

- 1. 1.0 credit in the French language;
- 2. 1.0 credit devoted to the history and culture of French Canada
- 1.0 credit at the 2000- or 3000-level taken in French. This credit may come from any of Philosophy, Psychology, Computer Science, Linguistics, Neuroscience, or Cognitive Science, without restriction.

Courses taught in French (Item 3, above) may be taken at Carleton, at the University of Ottawa on the Exchange Agreement, or at a francophone university on a Letter of Permission. Students planning to take courses on exchange or on a Letter of Permission should take careful note of the residence requirement for a minimum number of Carleton courses in their programs. Consult the Academic Regulations of the University section of this Calendar for information regarding study on Exchange or Letter of Permission.

Regulations

Post-Baccalaureate Diploma

In addition to the requirements presented here, students must satisfy the University regulations (see the Academic Regulations of the University section of this Calendar).

Definition

A post-baccalaureate diploma is defined as a stand-alone undergraduate credential intended to:

- qualify a candidate for consideration for entry into a master's program, or
- bring a candidate who already possesses a bachelor's degree up to a level of a bachelor's degree of 20.0 credits or more in another discipline, or
- provide a candidate who already possesses a twentycredit bachelor's degree in the same discipline the opportunity to bring their previous studies to current equivalents and/or to examine alternative areas, or
- provide a candidate with a professional undergraduate credential for which the prior completion of an undergraduate degree program is appropriate.

Program Requirements

- A post-baccalaureate diploma is normally constituted of a minimum of 3.0 credits to a maximum of 5.0 credits of advanced undergraduate courses.
- A minimum of 3.0 residency credits counting toward the post-baccalaureate diploma.

English as a Second Language Requirement

In addition to the program requirements, completion of English as a Second Language (ESLA) courses may be required from the following sequence: ESLA 1300, ESLA 1500, ESLA 1900, ESLA 1905. No credits from this sequence will be counted toward the post-baccalaureate diploma.

Continuation

All post-baccalaureate diploma students are expected to complete their diploma requirements within two calendar years after the date of initial registration. After this period student may be withdrawn.

Graduation

- A candidate for a post-baccalaureate diploma must have an overall CGPA of at least 6.5 to graduate.
- A candidate for a post-baccalaureate diploma must obtain a grade of C- or higher in each course taken in fulfillment of the program requirements.
- Students should consult with the Department, School or Institute when planning their diploma and selecting courses.

Co-operative Education

For more information about how to apply for the Co-op program and how the Co-op program works please visit the Co-op website.

All students participating in the Co-op program are governed by the Undergraduate Co-operative Education Policy.

Undergraduate Co-operative Education Policy

Admission Requirements

Students can apply to co-op in one of two ways; directly from high school or after beginning a degree program at Carleton.

If a student is admitted to co-op from high school, their grades will be reviewed two terms to one year prior to their first work term to ensure they continue to meet the academic requirements after their 1st or 2nd year of study. The time at which evaluation takes place depends on the program of study. Students will automatically be notified via their Carleton email account if they are permitted to continue.

Students not admitted to Carleton University with the coop option on their degree can apply for admission via the co-operative education program website. To view application deadlines, visit carleton.ca/co-op.

Admission to the co-op option is based on the completion of 5.0 or more credits at Carleton University, the CGPA requirement for the students' academic program as well as any course prerequisites. The articulated CGPA for each program is the normal standard for assessment. Please see the specific degree program sections for the unique admission and continuation requirements for each academic program.

English Language Proficiency

Students admitted to Carleton based on CAEL, IELTS or TOEFL assessments and who are required to take an ESL course must take and pass the Oral Proficiency in Communicative Settings (OPECS) Test. The test must be taken before being permitted to register in COOP 1000. Admission to the co-op program can be confirmed with a minimum score of 4+.

Participation Requirements

COOP 1000

Once a student has been given admission or continuation confirmation to the co-op option s/he must complete and pass COOP 1000 (a mandatory online 0.0 credit course). Students will have access to this course a minimum of two terms prior to their first work term and will be notified when to register.

Communication with the Co-op Office

Students must maintain contact with the co-op office during their job search and while on a work term. All email communication will be conducted via the students' Carleton email account.

Employment

Although every effort is made to ensure a sufficient number of job postings for all students enrolled in the co-op option of their degree program, no guarantee of employment can be made. Carleton's co-op program operates a competitive job search process and is dependent upon current market conditions. Academic performance, skills, motivation, maturity, attitude and potential will determine whether a student is offered a job. It is the student's responsibility to actively conduct a job search in addition to participation in the job search process operated by the co-op office. Once a student accepts a coop job offer (verbally or written), his/her job search will end and access to co-op jobs will be removed for that term. Students that do not successfully obtain a co-op work term are expected to continue with their academic studies. The summer term is the exception to this rule. Students should also note that hiring priority is given to Canadian citizens for co-op positions in the Federal Government of Canada.

Registering in Co-op Courses

Students will be registered in a Co-op Work Term course while at work. The number of Co-op Work Term courses that a student is registered in is dependent upon the number of four-month work terms that a student accepts.

While on a co-op work term students may take a maximum of 0.5 credit throughout each four-month co-op work term. Courses must be scheduled outside of regular working hours.

Students must be registered as full-time before they begin their co-op job search (2.0 credits). All co-op work terms must be completed before the beginning of the final academic term. Students may not finish their degree on a co-op work term.

Work Term Assessment and Evaluation

To obtain a Satisfactory grade for the co-op work term students must have:

- 1. A satisfactory work term evaluation by the co-op employer;
- 2. A satisfactory grade on the work term report.

Students must submit a work term report at the completion of each four-month work term. Reports are due on the 16th of April, August, and December and students are notified of due dates through their Carleton email account.

Workplace performance will be assessed by the workplace supervisor. Should a student receive an unsatisfactory rating from their co-op employer, an investigation by the co-op program manager will be undertaken. An unsatisfactory employer evaluation does not preclude a student from achieving an overall satisfactory rating for the work term.

Graduation with the Co-op Designation

In order to graduate with the co-op designation, students must satisfy all requirements for their degree program in addition to the requirements according to each co-op program (i.e. successful completion of three or four work terms).

Note: Participation in the co-op option will add up to one additional year for a student to complete their degree program.

Voluntary Withdrawal from the Co-op Option

Students may withdraw from the co-op option of their degree program during a study term ONLY. Students at work may not withdraw from the work term or the co-op option until s/he has completed the requirements of the work term.

Students are eligible to continue in their regular academic program provided that they meet the academic standards required for continuation.

Involuntary or Required Withdrawal from the Co-op Option

Students may be required to withdraw from the co-op option of their degree program for one or any of the following reasons:

- 1. Failure to achieve a grade of SAT in COOP 1000
- 2. Failure to pay all co-op related fees
- 3. Failure to actively participate in the job search process
- 4. Failure to attend all interviews for positions to which the student has applied
- 5. Declining more than one job offer during the job search process
- 6. Continuing a job search after accepting a co-op position
- 7. Dismissal from a work term by the co-op employer
- 8. Leaving a work term without approval by the Co-op manager
- 9. Receipt of an unsatisfactory work term evaluation
- 10. Submission of an unsatisfactory work term report

Standing and Appeals

The Co-op and Career Services office administers the regulations and procedures that are applicable to all co-op program options. All instances of a student's failure

during a work term or other issues directly related to their participation in the co-op option will be reported to the academic department.

Any decision made by the Co-op and Career Services office can be appealed via the normal appeal process within the University.

International Students

All International Students are required to possess a Coop Work Permit issued by Immigration, Refugees and Citizenship Canada before they can begin working. It is illegal to work in Canada without the proper authorization. Students will be provided with a letter of support to accompany their application. Students must submit their application for their permit before being permitted to view and apply for jobs on the Co-op Services database. Confirmation of a position will not be approved until a student can confirm they have received their permit. Students are advised to discuss the application process and requirements with the International Student Services Office.

Bachelor of Cognitive Science Honours: Co-op Admission and Continuation Requirements

- Maintain full-time status in each study term (2.0 credits);
- Be eligible to work in Canada (for off-campus work)
- Have successfully completed COOP 1000 [0.0]

In addition to the following:

- 1. Registered as a full-time student in the Bachelor of Cognitive Science program;
- 2. Obtained and maintained an overall CGPA of 8.50 or higher;
- 3. Successfully completed CGSC 2001.

Bachelor of Cognitive Science Honours students must successfully complete three (3) work terms to obtain the Co-op designation.

Work Term Report Course: CGSC 3999 [0.0] Work/Study Pattern:

Year 1		Year 2	ar 2		Year 3		Year 4		Year 4	
Term	Pattern									
Fall	S									
Winter	S	Winter	S	Winter	S	Winter	W	Winter		
Summer		Summer		Summer	W	Summer	W	Summer		

Legend

- S: Study
- W: Work
- O: Optional
- * indicates recommended work study pattern
- ** student finds own employer for this work-term.

Admissions Information

Admission Requirements are for the 2020-21 year only, and are based on the Ontario High School System. Holding the minimum admission requirements only establishes eligibility for consideration. The cut-off averages for admission may be considerably higher than the minimum. See also the **General Admission and Procedures** section of this Calendar. An overall average of at least 70% is normally required to be considered for admission. Some programs may also require specific course prerequisites and prerequisite averages and/or supplementary admission portfolios. Higher averages are required for admission to programs for which the demand for places by qualified applicants exceeds the number of places available. The overall average required for admission is determined each year on a program by program basis. Consult admissions.carleton.ca for further details.

Note: Courses listed as *recommended* are not mandatory for admission. Students who do not follow the recommendations will not be disadvantaged in the admission process.

Degrees

- Bachelor of Cognitive Science (Honours)
- Bachelor of Cognitive Science (General)

Admission Requirements

First Year

The Ontario Secondary School Diploma (OSSD) or equivalent including a minimum of six 4U or M courses. The six 4U or M courses must include a 4U course in English (or anglais). For applicants whose first language is not English, the requirement of English can also be met under the conditions outlined in the section "English Language Requirements" in the Admissions Requirements and Procedures section of this Calendar.

The cut-off average for admission will be set annually and will normally be above the minimum requirement.

Advanced Standing

Applications for admission to the second or subsequent years will be assessed on their merits. Advanced standing will be granted only for those courses that are determined to be appropriate.

Co-op Option

Direct Admission to the First Year of the Co-op Option Applicants must:

- meet the required overall admission cut-off average and prerequisite course average. These averages may be higher than the stated minimum requirements;
- 2. be registered as a full-time student in the Bachelor of Cognitive Science;
- 3. be eligible to work in Canada (for off-campus work placements).

Meeting the above requirements only establishes eligibility for admission to the program. The prevailing job market may limit enrolment in the co-op option. Students should also note that hiring priority is given to Canadian citizens for co-op positions in the Public Service Commission. Note: continuation requirements for students previously admitted to the co-op option and admission requirements

for the co-op option after beginning the program are described in the Co-operative Education Regulations section of this Calendar.

Admissions Information

Admission Requirements are for the 2020-21 year only. and are based on the Ontario High School System. Holding the minimum admission requirements only establishes eligibility for consideration. The cut-off averages for admission may be considerably higher than the minimum. See also the General Admission and **Procedures** section of this Calendar. An overall average of at least 70% is normally required to be considered for admission. Some programs may also require specific course prerequisites and prerequisite averages and/or supplementary admission portfolios. Higher averages are required for admission to programs for which the demand for places by qualified applicants exceeds the number of places available. The overall average required for admission is determined each year on a program by program basis. Consult admissions.carleton.ca for further details.

Note: Courses listed as *recommended* are not mandatory for admission. Students who do not follow the recommendations will not be disadvantaged in the admission process.

Diploma

Post-Baccalaureate Diploma in Cognitive Science

Admission to this program requires the permission of the Department of Cognitive Science. Normally, students are required to have completed an undergraduate degree with a minimum B average or higher to be admitted. Applications will be reviewed on a case-by-case basis.

Cognitive Science (CGSC) Courses

CGSC 1001 [0.5 credit] Mysteries of the Mind

Challenges faced in understanding the mind, and some of the approaches cognitive science has brought to bear on them. Topics may include the nature of knowledge, how we learn, the extent to which human thinking is rational, biases in thinking, and evolutionary influences on cognition.

Lectures three hours per week.

CGSC 1005 [0.5 credit]

Computational Methods in Cognitive Science

Introduction to computational methods, with an emphasis on programming. Topics and assignments will focus on applications in cognitive science. No prior computing experience required.

Includes: Experiential Learning Activity

Precludes additional credit for COMP 1005, COMP 1405. Lecture three hours and tutorial one and a half hours a week.

CGSC 2001 [0.5 credit] Theories in Cognitive Science

An integrated background of the discipline of Cognitive Science, with an historical overview (1940's onward) and examination of the extent to which the discipline has assimilated the collective knowledge of contributing disciplines (e.g., psychology, philosophy, linguistics, artificial intelligence and neuroscience).

Prerequisite(s): second-year standing and FYSM 1607 or CGCS 1001, or permission of the Department. Lectures three hours a week.

CGSC 2002 [0.5 credit] Methods in Cognitive Science

Selected topics in cognitive science covered from the perspectives of psychology, computer science, linguistics, philosophy, and other related disciplines. Students may be required to complete independent research projects. Includes: Experiential Learning Activity

Prerequisite(s): CGSC 1001 or FYSM 1607, second year standing, or permission of the Department. Restricted to students enrolled in B.Cog.Sc. General or Honours. Seminars and tutorials six hours per week.

CGSC 3004 [0.5 credit]

Philosophy and Cognitive Science

An examination of the significance and role of philosophy in cognitive science. Topics may include: philosophical methods for studying the mind, prospects for naturalizing consciousness and intentionality, assessing competing models of the mind.

Prerequisite(s): CGSC 2001 and PHIL 2501, and third-year standing.

Seminar three hours per week.

CGSC 3201 [0.5 credit] Cognitive Processes

An examination of research findings on cognitive processes. Topics may include attention, speech perception, memory, intelligence, reasoning, learning, working memory, reading, and mathematics. Prerequisite(s): third-year standing, and CGSC 2001 or PSYC 2700.

Seminar three hours per week.

CGSC 3301 [0.5 credit]

Language and Cognitive Science

Issues related to language and cognitive science are examined through a detailed consideration of selected topics.

Prerequisite(s): third-year standing, and CGSC 2001. Seminar three hours per week.

CGSC 3501 [0.5 credit] Cognitive Neuroscience

Issues related to the role of cognitive neuroscience research in cognitive science are examined through a detailed consideration of selected topics.

Prerequisite(s): third-year standing and CGSC 2001. Seminar, three hours per week.

CGSC 3601 [0.5 credit] Artificial Intelligence and Cor

Artificial Intelligence and Cognitive Science

An introduction to the contribution of artificial intelligence and computer modeling of cognitive processes to cognitive science.

Includes: Experiential Learning Activity Precludes additional credit for CGSC 4001. Prerequisite(s): third-year standing and CGSC 2002 and (CGSC 1005 or COMP 1005). Restricted to students enrolled in B.Cog.Sc. Honours. Seminars and labs six hours per week.

CGSC 3908 [0.5 credit]

Honours Seminar in Cognitive Science

Major theories and empirical approaches within Cognitive Science are examined through a detailed consideration of selected topics. Students are required to complete independent research projects to prepare for their fourthyear honours theses.

Includes: Experiential Learning Activity Precludes additional credit for CGSC 3001 (no longer offered) and CGSC 3002 (no longer offered). Prerequisite(s): third year standing, CGSC 2001 and CGSC 2002, and enrolment in B. Cog. Sc. Honours with a CGPA in the major requirements of 8.0. Seminars and tutorials six hours per week.

CGSC 3999 [0.0 credit] Co-operative Work Term

Includes: Experiential Learning Activity

CGSC 4601 [0.5 credit]

Cognitive Modelling in Cognitive Science

Introduction to the field of cognitive modelling. Different modelling systems and how to evaluate them against human data; how to create cognitive models using the ACT-R cognitive architecture.

Prerequisite(s): third year standing, CGSC 2001, and (CGSC 1005 or COMP 1005).

Also offered at the graduate level, with different requirements, as CGSC 5106, for which additional credit is precluded.

Seminar three hours per week, tutorial one and a half hours per week.

CGSC 4801 [0.5 credit] Independent Study

A reading or research course for selected students who wish to investigate a particular topic of interest. Normally students may not offer more than one credit of independent study in their total program (including independent study credits taken through other departments).

Includes: Experiential Learning Activity Prerequisite(s): third- or fourth-year standing and permission of the Department.

CGSC 4802 [0.5 credit] Independent Study

A reading or research course for selected students who wish to investigate a particular topic of interest. Normally students may not offer more than one credit of independent study in their total program (including independent study credits taken through other departments).

Includes: Experiential Learning Activity Prerequisite(s): third- or fourth-year standing and permission of the Department.

CGSC 4900 [0.5 credit]

Special Topics in Cognitive Science

The topic of this course will vary from year to year. Students may register in more than one section of CGSC 4900 but may register in each section only once. Prerequisite(s): each section will have its own prerequisites and permission of the department if is required.

Seminar three hours per week.

CGSC 4908 [1.0 credit] Honours Thesis

Interdisciplinary thesis. In developing a thesis, students must consult the Undergraduate Supervisor. Only the Undergraduate Supervisor can assign a supervisor or grant approval to register in this course. Faculty regulations governing Honours Research Essays and Honours Theses apply.

Includes: Experiential Learning Activity

Precludes additional credit for CGSC 4909.

Prerequisite(s): fourth year standing, CGSC 3908, and enrolment in B.Cog.Sc. Honours with a major CGPA of 8.0.

CGSC 4909 [1.0 credit]

Honours Project

Interdisciplinary project. Students engage in one or more group research projects. Includes: Experiential Learning Activity Precludes additional credit for CGSC 4908. Prerequisite(s): 4th year standing, enrolment in B. Cog. Sc. Honours. Seminar