

Cognitive Science Program

Department of Philosophy

Undergraduate Program Office
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COGNITIVE SCIENCE CONTACT INFORMATION

Undergraduate Office

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 Fax 416-736-5114
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COGNITIVE SCIENCE FACULTY

NAME	FACULTY	ROOM	EXT.	EMAIL
Adler, Scott A. RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Infant cognition ▪ Vision ▪ Developmental psychology 	Psychology, HH	BSB 333	33389	adler@yorku.ca Personal Website: http://www.psych.yorku.ca/adler
Alboiu, Gabriela RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Control phenomenon ▪ Argument structure ▪ Structural encodings of discourse properties 	Languages, Literatures And Linguistics, AP	S 555 Ross	20302	galboiu@yorku.ca Personal Website: http://www.yorku.ca/galboiu/
Allison, Robert RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Human-computer interaction ▪ Virtual reality ▪ Machine vision ▪ Perception of human motion 	Computer Science, SC Center for Vision Research	CSE 3051	20192	allison@cse.yorku.ca Personal Website: http://www.cse.yorku.ca/~allison/
Andrews, Kristin RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Comparative cognitive science ▪ Animal cognition ▪ Moral psychology ▪ Social cognition/ folk psychology 	Philosophy, AP	S 420	77590	andrewsk@yorku.ca Personal Website: www.yorku.ca/andrewsk
Baljko, Melanie RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Multimodal communication ▪ Augmentative and alternative communication, ▪ Adaptive interfaces, ▪ Computational stylistics, ▪ Computer-supported collaborative writing ▪ Women in computer science 	Computer Science, SC	CSE 2028	33348	mb@cse.yorku.ca Personal Website: http://www.cse.yorku.ca/~mb/

Bialystok, Ellen RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Developmental-cognitive ▪ General experimental ▪ Second-language acquisition ▪ Development of symbolic skills such as language, number and spatial cognition in preschool and school-age children. 	Psychology, HH	BSB 234	66109	ellenb@yorku.ca Personal Website: http://www.yorku.ca/coglab/
Cepeda, Nicholas RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Developmental cognitive neural science ▪ Cognitive flexibility and executive function, ▪ Educational applications of cognitive psychology 	Psychology, HH	BSB 242	33266	ncepeda@yorku.ca Personal Website: http://psy.ucsd.edu/~ncepeda/
Desrocher, Mary RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Pediatric neuropsychology ▪ Normative studies of memory functioning through the lifespan ▪ The functioning of the hippocampus and frontal lobes in normal and altered development 	Psychology, HH	BSB 124	33111	mdesroch@yorku.ca
Elder, James RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Visual perception ▪ Psychological and computational methods ▪ Neural modeling 	Psychology, HH	CSE 0003G	66475	jelder@yorku.ca Personal Website: http://elderlab.yorku.ca/~elder/
Fallah, Mazyar RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Systems neuroscience ▪ Cognitive neuroscience ▪ Neurophysiology ▪ Attention, perception 	Psychology, HH	CSE 1012H	20555	mfallah@yorku.ca Personal Website: http://www.yorku.ca/mfallah/
Goel, Vinod RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Cognitive and neural basis of rational decision-making ▪ Emotional processing 	Psychology, HH	BSB 332	66150	vgoel@yorku.ca Personal Website: http://www.yorku.ca/vgoel/
Gottschling, Verena RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Philosophy of psychology ▪ Philosophical foundations of cognitive science 	Philosophy, AP	S 444 Ross	44722	vgott@yorku.ca Personal Website: http://www.gottschling-net.de/
Green, Chris RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ History of psychology ▪ Theoretical cognitive science 	Psychology, HH	BSB 286	66164	christo@yorku.ca Personal Website: http://www.yorku.ca/christo/
Gryz, Jarek RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Maximal vector computation ▪ Query sampling ▪ Query optimization via data mining ▪ Semantic query caching 	Computer Science, SC	CSE 3026	55053	jarek@cse.yorku.ca Personal Website: http://www.cse.yorku.ca/~jarek/
Harris, Laurence RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Vision ▪ Vestibular system 	Psychology, HH	BSB 296	55116	harris@yorku.ca Personal Website: http://www.yorku.ca/harris/

<ul style="list-style-type: none"> ▪ Eye and head movements ▪ Control systems ▪ Neurophysiology ▪ Perception of motion ▪ Psychophysics ▪ Multi-sensory interaction 				
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Hattiangadi, Jagdish RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Philosophy of science ▪ Philosophy of language ▪ History of ideas ▪ Metaphysics ▪ Epistemology 	Philosophy, AP	S 437 Ross	77524	jagdish@yorku.ca
Huang, Jimmy RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Information retrieval, data mining ▪ Natural language processing ▪ Computational linguistics 	ITEC, AP	3048 TEL	30149	jhuang@yorku.ca Personal Website: http://www.yorku.ca/jhuang
Jackman, Henry RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Philosophy of language ▪ Philosophy of mind ▪ Epistemology ▪ American pragmatism 	Philosophy, AP	S 434 Ross	77595	hjackson@yorku.ca Personal Website: http://www.yorku.ca/hjackman/
Jenkin, Michael RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Computer vision ▪ Virtual reality ▪ Mobile robotics 	Computer Science, SC	CSE 3032	33162	jenkin@cse.yorku.ca
Johnson, Janice M. RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Developmental-cognitive ▪ General experimental ▪ Cognition ▪ Psycholinguistics ▪ Cognitive process analysis 	Psychology, HH	246 BSB	66214	janicej@yorku.ca Personal Website: http://www.psych.yorku.ca/janicej/
Jopling, David RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Philosophy of psychology ▪ Continental philosophy 	Philosophy, AP	S 435	77588	jopling@yorku.ca
Khalidi, Muhammad Ali RESEARCH AREA/INTEREST <ul style="list-style-type: none"> ▪ Philosophy of cognitive science ▪ Philosophy of mind and language 	Philosophy, AP	S438	77586	khalidi@yorku.ca Personal Website: http://www.arts.yorku.ca/phil/khalidi/
Legerstee, Maria RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Social cognitive development in infants 	Psychology, HH	212 BSB	20278	legerste@yorku.ca Personal Website: http://www.psych.yorku.ca/legerstee/
Lesperance, Yves RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Knowledge representation ▪ Autonomous agents and multi-agent systems ▪ Cognitive robotics 	Computer Science, SC	3052A CSE	70146	lesperan@cse.yorku.ca Personal Website: http://www.cse.yorku.ca/~lesperan/
MacDonald, Suzanne RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Comparative cognition ▪ Spatial cognition ▪ Language and communication 	Psychology, HH	297 BSB	66226	suzmac@yorku.ca Personal Website: http://web.mac.com/suzannemacdonald

Mar, Raymond RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Cognitive effects of narrative fiction ▪ Social cognition ▪ Autobiographical memory 	Psychology, HH	293 BSB	20769	mar@yorku.ca Personal Website: http://www.yorku.ca/mar/
Murray, Richard RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Perceptual psychology ▪ Visual psychophysics ▪ Perceptual organization ▪ Three-dimensional shape perception 	Psychology, HH / Centre for Vision Research	0009 CSE	23025	rfm@yorku.ca Personal Website: http://www.yorku.ca/rfm/
Murtha, Susan RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Cognitive impairment ▪ Aging ▪ Memory 	Psychology, HH	217 BSB	66132	smurtha@yorku.ca Personal Website: http://www.psych.yorku.ca/smurtha/
Park, Norman RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Cognitive and neuropsychological processes associated with perceiving and remembering ▪ Attention and Memory 	Psychology, HH	213 BSB	22159	npark@yorku.ca
Pascual-Leone, Juan RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Developmental and cognitive processes 	Psychology, HH	402C BSB	66148	juanpl@yorku.ca
Pelham, Judy RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Logic ▪ Logical truth ▪ The logic of conditionals 	Philosophy, AP	S 440 Ross	77591	pelham@yorku.ca Personal Website: http://www.arts.yorku.ca/phil/pelham/
Rich, Jill RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Clinical, semantic memory, implicit memory and prospective memory ▪ Memory processing in normal aging and dementia ▪ Cognitive processes ▪ Neural basis of behaviour 	Psychology, HH	248A BSB	30561	jbr@yorku.ca Personal Website: http://www.yorku.ca/jbr/
Roosen-Runge, Peter RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Artificial intelligence ▪ Philosophy of computation 	Computer Science, SC	319 CC	77844	peter@cse.yorku.ca Personal Website: http://www.cse.yorku.ca/~peter/
Rosenbaum, Shayna RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Clinical neuropsychology and cognitive neuroscience ▪ Cognitive and neural basis of remote memory (spatial, episodic, semantic) and mental state attributions ▪ Lesion and fMRI methods 	Psychology, HH	041 AC	20449	shaynar@yorku.ca Personal Website: http://www.yorku.ca/shaynar/index.htm
Russon, Anne RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Comparative studies of nonhuman primates ▪ Infant social and cognitive development ▪ Imitation ▪ Tool use 	Psychology, GL	York Hall, 165 Glendon	88363	arusson@glendon.yorku.ca Personal Website: http://www.yorku.ca/arusson/

<ul style="list-style-type: none"> ▪ Social vs. ecological intelligence ▪ The evolution of primate intelligence 				
St-Cyr, Olivier RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Ecological Interface Design ▪ Cognitive Work Analysis ▪ Cognitive Engineering ▪ Dynamical Systems Theory ▪ Learning, knowledge acquisition, expertise, and mental models 	Information Technology, AP	TEL 3031		stcyr@yorku.ca Personal Website: http://www.yorku.ca/stcyr/index.html
Shanker, Stuart RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Understanding how parent-child relationships shape children's development ▪ Role of emotion in evolution and development of language, intelligence, social skills and empathy ▪ Interaction between the development of the mind and the development of the brain 	Psychology, HH	TEL 5030 E	20386	shanker@yorku.ca Personal Website: www.mehri.ca
Stuerzlinger, Wolfgang RESEARCH AREA/INTERESTS: <ul style="list-style-type: none"> ▪ Human-computer interaction ▪ 3D user interfaces ▪ Virtual reality 	Computer Science, SC	3048 CSE	33947	wolfgang@cse.yorku.ca Personal Website: http://www.cse.yorku.ca/~wolfgang/

INTRODUCTION

WHAT IS THE COGNITIVE SCIENCE PROGRAM?

Our interdisciplinary program in Cognitive Science offers you a challenging opportunity to study the mind and its processes from multiple perspectives. In this program you can combine courses from Computer Science, Linguistics, Philosophy, and Psychology to gain an expansive knowledge of the cognitive processes we might find in humans, animals, and machines.

Cognitive Science majors will examine the nature of thought, emotion, perception, and language using the methodologies of the different disciplines in order to acquire a richly integrated understanding of the mind. You will have the chance to study the different ways in which infants and non-human animals may be able to think and reason without language, how computers can be programmed to demonstrate intelligence, and the nature of the relationship between social interaction and cognition. Our faculty members are conducting research in such diverse areas as infant social cognition, virtual reality, neuropsychology of reasoning, and moral psychology. Your study will be enriched by your contact with energetic faculty, research groups, labs and research centers that are engaged in groundbreaking work in the field of cognitive science.

WHY MAJOR IN COGNITIVE SCIENCE?

As a Cognitive Science major, you will learn to bring a variety of different perspectives together. You will become familiar with some of the oldest questions in Philosophy and the most recent findings in the Sciences. Topics that you will learn include:

- What is the relationship between philosophy, psychology, computer science, and linguistics?
- What is the relationship between the mind and the brain?
- How does the technology used to study the brain work, and what assumptions must we make to use it?
- How can we best explain human abilities like language, reasoning, problem-solving, and memory?
- What is the connection between language and thinking?
- How can we best understand various cognitive disorders?
- How does human cognition differ from the cognition of other animals, such as the great apes?
- To what extent is cognition innate, and to what extent is it acquired through experience?

CAREER OPTIONS FOR COGNITIVE SCIENCE MAJORS

Whatever profession you choose, you will be able to perform better if you understand how the mind works:

- If you want to go into Psychology, Psychiatry or Counseling, Cognitive Science supplies a broad understanding of the theories of psychology as well as skills in computer modeling techniques to supplement psychology's experimental approach.
- If you plan to teach, Cognitive Science can help you understand how people learn so you can work out better teaching methods.
- If you plan to go into law, you'll be more effective in court if you have some insight into how juries make decisions.
- If you want to become a Business Manager or Human Resources Consultant, Cognitive Science will provide a scientific basis for understanding how people use language and perform intellectual tasks.

Since Cognitive Science integrates the knowledge and methods of a number of disciplines, the skills acquired can be applied to most of the fields and professions related to the four disciplines, including: telecommunications, information and language processing, artificial intelligence, cognition software development, medical analysis, speech pathology, data retrieval, human-computer interaction, therapy, and education.

A SAMPLE OF CAREER PATHS OF COGNITIVE SCIENCE GRADUATES

Previous Cognitive Science graduates have found careers in research laboratories, community and mental health organizations, hospitals, clinics, non-profit organizations, governments, universities, colleges, newspapers, and magazine publishing. Others have gone on to earn graduate degrees in Philosophy, Psychology, Linguistics, Computer Science and Law.

COGNITIVE SCIENCE SPEAKER SERIES

In addition to learning from the skilled researchers at York University, the Cognitive Science program hosts a Speaker Series where you will have the opportunity to learn from other leading researchers from around the world. These talks will give you the chance to engage in some of the most recent research topics and findings in Cognitive Science.

The Cognitive Science program also hosts various types of social events, such as movie nights. These informal gatherings enable and encourage intensive interdisciplinary communication and give students a chance to meet other Cognitive Science students and to talk with faculty members in a less formal setting.

Additionally, the Cognitive Science program organizes national and international conferences and workshops.

Log on to <http://www.yorku.ca/laps/phil/cogs/speaker.html> to find out about our latest events!

RESEARCH AREAS/INTERESTS WITHIN THE PROGRAM

There are many different topics students could focus on, including:

- Language and psycholinguists
- Memory
- Attention
- Perception
- Emotion
- Nonlinguistic thinking
- Communication, multimodal communication
- Rationality, reasoning and decision-making
- Neural modeling
- Robotics
- Social cognition
- Cognitive development in animals and humans
- Evolutionary psychology
- Clinical psychology, cognitive disorders
- Comparative cognition
- Moral cognition
- Personhood and free will
- Consciousness and self-consciousness
- Neuroimaging
- Human-computer interaction

COGNITIVE SCIENCE STUDENTS' ASSOCIATION OF YORK

Hello from COSSA – the Cognitive Science Students' Association!

COSSA's main mandate is to provide students with an environment outside of their academic responsibilities. Being an interdisciplinary program of study, Cognitive Science students often have trouble finding each other and may never know that the student a few seats down shares

their interests. We aim to provide a link for students who wish to find like minded individuals to learn and share their experiences.

We hold a variety of social activities including but not limited to: movie nights, pub nights, and debates with a keen ear to open-minded and analytic conversation. By getting to know others in Cognitive Science, students also gain access to the experience of upper year students and professors to help them tackle the intricacies of carving out their academic path.

University is a place to learn, but not only from lectures and books, learning from the minds of others is how we grow as people.

For more information, please contact <cossa@yorku.ca> or visit our website:
<http://www.yorku.ca/cossa>.

We at COSSA look forward to meeting and learning with you.

Best wishes,
The Cognitive Science Students' Association

SPECIALIZED HONOURS BA PROGRAM IN COGNITIVE SCIENCE

The Honours BA program in Cognitive Science is housed in the Department of Philosophy and combines the departmental specializations of the Department of Philosophy, Psychology, Linguistics, and Computer Science. What is especially exciting about Cognitive Science is its nature of interdisciplinary cooperation, involving Psychologists, Philosophers, Computer Scientists, Neuroscientists, Anthropologists, Biologists, Linguists and others. By taking a variety of perspectives, the Cognitive Scientist has a greater chance of finding answers to our questions about the way the mind works.

Students in Cognitive Science may focus on a number of different areas including Human-Computer Interaction, Artificial Intelligence, Animal Cognition, Language and Thought, Linguistic Development, Comparative Cognition and many more. Students can arrange their program of study in consultation with the Program Coordinator or an Advisor in the program.

DEGREE REQUIREMENTS

You can download a degree program checklist to help you plan your path through the program http://www.yorku.ca/laps/phil/cogs/course_requirements.html. The checklist also indicates the necessary prerequisites for each course in the program as of 2006. Students will be responsible for making sure that all necessary prerequisites have been met for each course.

SPECIALIZED HONOURS BA PROGRAM

It is strongly recommended that students choose from the following courses to meet the 1000-level General Education/Foundations requirement.

Course Code	Weight	Course Title
AP/SOSC 1140	9.0	Self, Culture and Society, OR
AP/SOSC 1440	9.0	Intro to Cross-Cultural Studies
SC/NATS 1690	6.0	Evolution OR
SC/NATS 1675	6.0	Human Development OR
SC/NATS 1710	6.0	The Nature and Growth of Scientific Thought OR
SC/NATS 1730	6.0	Scientific Change OR
AP/HUMA 2915	9.0	Darwin, Einstein and the Humanities OR

Students must complete *all* of the following Core Courses (30 credits):

Course Code	Weight	Course Title
AP/LING 1000	6.0	Introduction to Linguistics
HH/PSYC 1010	6.0	Introduction to Psychology
HH/PSYC 3260	3.0	Cognition
AP/PHIL 3260	3.0	Philosophy of Psychology
AP/PHIL 3265	3.0	Philosophy of Mind
AP/COGS/PHIL3750	3.0	Philosophy of Artificial Intelligence
AP/COGS/PHIL4750	6.0	Honours Thesis in Cognitive Science OR
AP/COGS 4901	6.0	Honours Seminar but not both

6 credits chosen from the following:

Course Code	Weight	Course Title
SC/CSE 1020	3.0	Introduction to Computer Science I
SC/CSE 1030	3.0	Introduction to Computer Science II
SC/CSE 2001	3.0	Introduction to the Theory of Computation
AP/ITEC 1000	3.0	Introduction to Information Technologies
AP/ITEC 1010	3.0	Information and Organizations
AP/LING 2120	3.0	Fundamentals of Phonological Analysis
AP/LING 2140	3.0	Fundamentals of Grammatical Analysis
AP/PHIL 2100	3.0	Introduction to Logic
HH/PSYC 2020	6.0	Statistical Methods I and II
HH/PSYC 2021	3.0	Statistical Methods I
HH/PSYC 2030	3.0	Introduction to Research Methods

3 credits chosen from the following:

Course Code	Weight	Course Title
AP/PHIL 2160	3.0	Minds, Brains, and Machines
AP/PHIL 2240	3.0	Introduction to the Philosophy of Mind

9 credits chosen from the following, including at least two different disciplines (departments):

Course Code	Weight	Course Title
SC/CSE 2011	3.0	Fundamentals of Data Structures
SC/CSE 3401	3.0	Functional and Logic Programming
SC/CSE 3402	3.0	Intro to Concepts of Artificial intelligence
AP/ITEC 3230	3.0	Designing User Interfaces
AP/LING 3120	3.0	Phonology
AP/LING 3140	3.0	Syntax
AP/LING 3210	3.0	First Language Acquisition
AP/LING 3220		Psycholinguistics
HH/PSYC 2110	3.0	Developmental Psychology
HH/PSYC 2120		Social Psychology
HH/PSYC 2220	3.0	Sensation and Perception I
HH/PSYC 2240	3.0	Biological Bases of Behaviour
HH/PSYC 3250	3.0	Neural Basis of Behaviour
HH/PSYC 3265	3.0	Memory
HH/PSYC 3280	3.0	Animal Behaviour
HH/PSYC 3290	3.0	Psycholinguistics

6 credits chosen from the following, and including at least two different disciplines (departments):

Course Code	Weight	Course Title
SC/CSE 4401	3.0	Artificial Intelligence
SC/CSE 4421	3.0	Introduction to Robotics
SC/CSE 4422	3.0	Computer Vision
SC/CSE 4441	3.0	Human-Computer Interaction
AP/LING 4120	3.0	Advanced Phonology
AP/PHIL 3200	3.0	Philosophy of Language

AP/PHIL 3635	3.0	Philosophy of Neuroscience
AP/PHIL 4080	3.0	Seminar in the Philosophy of Mind
AP/PHIL 4082	3.0	Philosophy of Perception
AP/PHIL 4083	3.0	Philosophy of Clinical Psychology
AP/PHIL 4084	3.0	Animals and the Philosophy of Mind
HH/PSYC 4010	3.0/6.0	Seminar in Developmental Psychology
HH/PSYC 4020	3.0/6.0	Seminar in Social Psychology
HH/PSYC 4080	6.0	Neuropsychology of Abnormal Behaviour
HH/PSYC 4180	3.0	Seminar in Comparative Cognition
HH/PSYC 4230	3.0	Human Performance in Systems
HH/PSYC 4260	3.0	Seminar in Sensation and Perception
HH/PSYC 4270	3.0	Seminar in Memory and Cognition

HONOURS PROGRAMS

HONOURS (DOUBLE MAJOR) BA PROGRAM

The program described above may be pursued jointly with any other Honours Bachelor's degree program in the Faculties of LA&PS, Environmental Studies, or Fine Arts, or with a major in Computer Science, Earth and Atmospheric Science or Physics and Astronomy in the Faculty of Pure and Applied Science.

HONOURS (DOUBLE MAJOR) INTERDISCIPLINARY BA PROGRAMS

The program described above may be linked with any Honours (Double Major) Interdisciplinary BA program in the Faculty of LA&PS. Courses taken to meet Cognitive Science requirements cannot also be used to meet the requirements of the interdisciplinary program. Students in these interdisciplinary programs must take a total of at least 18 credits at the 4000-level. For further details of the requirements, see the listings for specific Honours (Double Major) Interdisciplinary BA Programs.

MAJOR/MINOR (WITH COGNITIVE SCIENCE AS THE MAJOR) BA PROGRAM

The program described above may be pursued jointly with any Honours Minor Bachelor's degree program in the Faculty of LA&PS, Environmental Studies, Fine Arts, or with a minor in Computer Science, Biology, Chemistry, or Physics and Astronomy in the Faculty of Pure and Applied Science.

COURSES

Cognitive Science courses are divided into five groups. All students must take all the core courses listed in Section I. From each of the other four groups, students may choose from among different options.

- | | | |
|------|--|----------------|
| I. | Core Courses (30 Credits) | Pages: 13 - 19 |
| II. | Analytical (6 credits) | Pages: 19 - 30 |
| III. | Introductory Philosophy (3 credits) | Pages: 30 |
| IV. | Mid-level Computer Science,
Linguistics, Psychology (9 credits) | Pages: 30 - 41 |
| V. | Upper level Computer Science,
Linguistics, Psychology, Philosophy (6 credits) | Pages: 42 - 48 |

PLEASE NOTE:

THE FOLLOWING COURSE DESCRIPTIONS ARE ACCURATE AS OF APRIL 28, 2011.

IT IS INEVITABLE HOWEVER THAT THERE WILL BE SOME SUBSEQUENT CHANGES IN ASSIGNED COURSE DIRECTORS (AND THEREFORE, IN COURSE FORMAT AND EVALUATION).

PLEASE CONSULT EACH DEPARTMENT'S ONLINE SUPPLEMENTAL CALENDAR FOR UPDATED INFORMATION.

SOME COURSES HAVE "GENERAL PREREQUISITES" IN ADDITION TO THE SPECIFIC PREREQUISITES LISTED FOR EACH COURSE: THESE CAN BE FOUND IN THE RELEVANT PROGRAM'S SUPPLEMENTAL CALENDAR.

I. CORE COURSES

Students must complete the following (30 credits):

AP/LING 1000 6.0A (Y) – INTRODUCTION TO LINGUISTICS

INSTRUCTOR: TBA

DAY: Monday and Wednesday

OFFICE: TBA

TIME: 10:30 – 11:30 am

PREREQUISITE: None

COURSE CREDIT EXCLUSION: GL/EN/LIN 2605 6.00

DESCRIPTION: This course introduces students to the nature of human language and linguistic communication. The aim is to familiarize students with the structural and interpretive properties of language by focusing on the following core areas: morphology (word structure), syntax (sentence structure) and phonology (sound structure). Other topics covered include semantics, phonetics, first and second language acquisition, language variation and language change. Data and analytic exercises from a wide range of the world's languages will be used for illustration.

AP/LING 1000 6.0B (Y) – INTRODUCTION TO LINGUISTICS

INSTRUCTOR: TBA

DAY: Monday

OFFICE: TBA

TIME: 7:00 – 9:00 pm

PREREQUISITE: None

COURSE CREDIT EXCLUSION: GL/EN/LIN 2605 6.00

DESCRIPTION: This course introduces students to the nature of human language and linguistic communication. The aim is to familiarize students with the structural and interpretive properties of language by focusing on the following core areas: morphology (word structure), syntax (sentence structure) and phonology (sound structure). Other topics covered include semantics, phonetics, first and second language acquisition, language variation and language change. Data and analytic exercises from a wide range of the world's languages will be used for illustration.

HH/PSYC 1010 6.0A (Y) – INTRODUCTION TO PSYCHOLOGY

INSTRUCTOR: TBA

DAY: Monday

OFFICE: TBA

TIME: 7:00 – 10:00 pm

PREREQUISITE: None

COURSE CREDIT EXCLUSION: HH/PSYC 2410 6.0 or GL/PSYC 2510 6.0

DESCRIPTION: A survey of psychology introducing basic terms, concepts and methods. Included are topics such as biological basis of behaviour, learning, perception, motivation, cognition, child development, personality, and abnormal and social psychology. A more detailed description will become available when an instructor has been assigned.

ACCESS SPECIFICATIONS: Most spaces are held for first year students with a few spaces reserved for upper level students.

HH/PSYC 1010 6.0B (Y) – INTRODUCTION TO PSYCHOLOGY

INSTRUCTOR: J. Rich

DAY: Thursday

OFFICE: BSB 248

TIME: 11:30 – 2:30 pm

PREREQUISITE: None

COURSE CREDIT EXCLUSION: HH/PSYC 2410 6.0 or GL/PSYC 2510 6.0

DESCRIPTION: See course description for HH/PSYC 1010 6.0A (Y).

ACCESS SPECIFICATIONS: Most spaces are held for first year students with a few spaces reserved for upper level students.

HH/PSYC 1010 6.0C (Y) – INTRODUCTION TO PSYCHOLOGY

INSTRUCTOR: TBA OFFICE: TBA	TIME: Correspondence
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PREREQUISITE: None
COURSE CREDIT EXCLUSION: HH/PSYC 2410 6.0 or GL/PSYC 2510 6.0

DESCRIPTION: A survey of psychology introducing basic terms, concepts and methods. Included are topics such as biological bases of behaviour, learning, perception, motivation, cognition, child development, personality, and abnormal and social psychology. Note: **This section of introductory psychology is by correspondence. Students who are in their first term at York and are making the transition from high school to university are strongly advised NOT to register in this section; a classroom course is strongly advised in this case. This section is meant primarily for mature students, students who cannot come to the York campus on a regular basis and students who are not Psychology majors but who want to take one or more Psychology courses.** This course is required for all students who intend to pursue additional courses in psychology at the 2000, 3000 and 4000 levels. Students must pass the course with a minimum grade of C (4.00) in order to pursue further studies in psychology.

ACCESS SPECIFICATIONS: Most spaces are held for first year students with a few spaces reserved for upper level students.

OTHER INFORMATION: This section is designed for mature and distance students whose schedules do not permit them to attend classes on campus. Others are admitted if spaces are available. It is NOT RECOMMENDED for students making the transition from high school to university.

HH/PSYC 1010 6.0D (Y) – INTRODUCTION TO PSYCHOLOGY

INSTRUCTOR: TBA OFFICE: TBA	DAY: Tuesday TIME: 2:30 - 5:30 pm
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PREREQUISITE: None
COURSE CREDIT EXCLUSION: HH/PSYC 2410 6.0 or GL/PSYC 2510 6.0

DESCRIPTION: This course is designed to introduce students to the study of human behaviour from a psychological perspective. The general topics covered will include: The Brain, Behaviour and Consciousness; Learning and Cognition; Human Development; Personality and Social Psychology; and Psychological Disorders and Treatment.

ACCESS SPECIFICATIONS: Most spaces are held for first year students with a few spaces reserved for upper level students.

HH/PSYC 1010 6.0E (Y) – INTRODUCTION TO PSYCHOLOGY

INSTRUCTOR: TBA OFFICE: TBA	DAY: Thursday TIME: 2:30 - 5:30 pm
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PREREQUISITE: None
COURSE CREDIT EXCLUSION: HH/PSYC 2410 6.0 or GL/PSYC 2510 6.0

DESCRIPTION: See course description for HH/PSYC 1010 6.0A (Y).

ACCESS SPECIFICATIONS: Most spaces are held for first year students with a few spaces reserved for upper level students.

HH/PSYC 1010 6.0F (Y) – INTRODUCTION TO PSYCHOLOGY

INSTRUCTOR: TBA OFFICE: TBA	DAY: Wednesday TIME: 8:30 – 11:30 am
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PREREQUISITE: None
COURSE CREDIT EXCLUSION: HH/PSYC 2410 6.0 or GL/PSYC 2510 6.0

DESCRIPTION: See course description for HH/PSYC 1010 6.0A (Y).

ACCESS SPECIFICATIONS: Most spaces are held for first year students with a few spaces reserved for upper level students.

HH/PSYC 1010 6.0G (Y) – INTRODUCTION TO PSYCHOLOGY

INSTRUCTOR: M. Mongrain

DAY: Tuesday

OFFICE: 225 BSB

TIME: 11:30 - 2:30 pm

PREREQUISITE: None

COURSE CREDIT EXCLUSION: HH/PSYC 2410 6.0 or GL/PSYC 2510 6.0

DESCRIPTION: A broad spectrum of topics related to human behaviour will be covered, with a special emphasis on how psychology's findings can be applied to your life! The topics will include the brain, child development, learning, memory, dreams, personality, social and health psychology, as well as mental disorders and their treatment.

ACCESS SPECIFICATIONS: Most spaces are held for first year students with a few spaces reserved for upper level students.

HH/PSYC 1010 6.0H (Y) – INTRODUCTION TO PSYCHOLOGY

INSTRUCTOR: TBA

DAY: Friday

OFFICE: TBA

TIME: 2:30 - 5:30 pm

PREREQUISITE: None

COURSE CREDIT EXCLUSION: HH/PSYC 2410 6.0 or GL/PSYC 2510 6.0

DESCRIPTION: See course description for HH/PSYC 1010 6.0A (Y).

ACCESS SPECIFICATIONS: Most spaces are held for first year students with a few spaces reserved for upper level students.

HH/PSYC 1010 6.0M (W) – INTRODUCTION TO PSYCHOLOGY

INSTRUCTOR: TBA

DAY: Tuesday and Thursday

OFFICE: TBA

TIME: 4:00 – 7:00 pm

PREREQUISITE: None

COURSE CREDIT EXCLUSION: HH/PSYC 2410 6.0 or GL/PSYC 2510 6.0

DESCRIPTION: A survey of psychology introducing basic terms, concepts and methods. Included are topics such as biological basis of behaviour, learning, perception, motivation, cognition, child development, personality, and abnormal and social psychology. A more detailed description will become available the first week of class.

HH/PSYC 1010 6.0N (W) - INTRODUCTION TO PSYCHOLOGY

INSTRUCTOR: R. Sheese

DAY/TIME: Mon and Weds 10:30 – 11:30 am,

OFFICE: S334 Ross

Friday 8:30 – 10:30 am

PREREQUISITE: None

COURSE CREDIT EXCLUSION: HH/PSYC 2410 6.0 or GL/PSYC 2510 6.0

DESCRIPTION: The course will introduce the discipline of Psychology by emphasizing its historical development within the context of modern Western culture. Two categories of approaches to the study of psychological phenomena will be considered in detail – positivist approaches (for example, those which seek to explain phenomena in biological terms) and interpretivist approaches (for example, those which seek to explain phenomena in terms of belief systems or culture). Among the phenomena considered will be learning, personality, intelligence, identity, social interaction, child development and abnormal behaviour.

ACCESS SPECIFICATIONS: This section has most of its seats reserved for first year students starting in January 2011.

AP/PHIL/COGS 3750 3.0M (F) – PHILOSOPHY OF ARTIFICIAL INTELLIGENCE**INSTRUCTOR:** Yves L'Esperance
OFFICE: CSE 3052A**DAY:** Tuesday & Thursday
TIME: 10:00 - 11:30 am**PREREQUISITE:** At least six credits in philosophy, or permission of the instructor. **Note:** This course is not open to any student who has successfully completed or who is taking SC/CSE 3402 3.0, SC/CSE 44013.0, SC/CSE 4402 3.0, SC/COSE 4302 3.0, SC/COSE 4401 3.0, or SC/COSE 4402 3.0.**Note:** Internet access is required for this course.**COURSE CREDIT EXCLUSION:** AP/PHIL 3001 3.0**CROSS-LISTED TO:** AP/COGS 3750 3.0**DESCRIPTION:** This course examines artificial intelligence (AI) as a framework for modeling and analyzing fundamental ideas about the nature of intelligence and cognition in general. Topics include the exploration of computer models for concepts such as remembering, learning, inference and affect.**AP/PHIL 3260 3.0M (W) – PHILOSOPHY OF PSYCHOLOGY****INSTRUCTOR:** TBA
OFFICE: TBA**DAY:** Thursday
TIME: 11:30 - 2:30 pm**PREREQUISITE:** At least six credits in philosophy including one of AP/PHIL 2160 3.00 or AP/PHIL 2240 3.00. PRIOR TO FALL 2009: At least six credits in philosophy including one of AK/AS/PHIL 2160 3.00, AK/PHIL 2240 3.00 or AS/PHIL 2240 3.00.**COURSE CREDIT EXCLUSION:** None. PRIOR TO FALL 2009: AK/PHIL 3260 3.00, AS/PHIL 3260 (prior to Summer 2007).**DESCRIPTION:** An examination of whether psychological research can help to answer traditional philosophical questions. Case studies may include: psychiatric and mental disorders, rational thought, animal cognition, the placebo effect, the nature of concepts, attribution theory, moral psychology, or consciousness.**AP/PHIL 3265 3.0M (W) – PHILOSOPHY OF MIND****INSTRUCTOR:** K. Andrews
OFFICE: S420 Ross**DAY:** Tuesday & Thursday
TIME: 1:00 - 2:30 pm**PREREQUISITE:** At least six credits in philosophy including one of: AP/PHIL 2160 3.00 or AP/PHIL 2240 3.00. PRIOR TO FALL 2009: At least six credits in philosophy including one of: AK/AS/PHIL 2160 3.00, AK/PHIL 2240 3.00 or AS/PHIL 2240 3.00.**COURSE CREDIT EXCLUSION:** None. PRIOR TO FALL 2009: AS/PHIL 3260 3.00 (prior to Fall/Winter 2000-2001), AS/PHIL 3265 3.00.**DESCRIPTION:** Topics covered include the ontological status of the mind, the nature of mental causation, consciousness and its relation to our status as rational persons equipped with free will. Other possible questions include: Is language necessary for thought? Can some nonhuman animals think? What is the relationship between emotions and rationality?**HH/PSYC 3260 3.0A (F) – COGNITION****INSTRUCTOR:** V. Goel
OFFICE: 332 BSB**DAY:** Thursday
TIME: 2:30 – 5:30 pm**PREREQUISITE:** HH/PSYC 1010 6.0 with a minimum grade of C**COURSE CREDIT EXCLUSION:** HH/PSYC 3135 3.0, GL/PSYC 3370 3.0**DESCRIPTION:** This will be a basic course in the cognitive structures and processes involved in perception, memory, language, thinking, reasoning, & problem solving. We will motivate & explicate the cognitive paradigm, discuss data from the various domains, and examine the models that have been advanced to account for the data. This section will have a cognitive

science bias.

ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors and Cognitive Science.

HH/PSYC 3260 3.0B (F) – COGNITION

INSTRUCTOR: N. Park
OFFICE: 213 BSB

DAY: Tuesday
TIME: 2:30 – 5:30 pm

PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C
COURSE CREDIT EXCLUSION: HH/PSYC 3135 3.0, GL/PSYC 3370 3.0

DESCRIPTION: This course will examine a range of cognitive processes and will consider the experimental evidence that has helped to guide the development of theoretical formulations of how people perceive, understand, store, retrieve, and act on information. We will examine different conceptualizations of cognition and review experimental evidence from cognitively unimpaired and patient populations. Laboratory and/or classroom demonstrations will be conducted in order to clarify the methods, findings, and theories under discussion. During these demonstrations, students will act as research participants and will provide data for analysis.

Each session is intended to be interesting, challenging, and (hopefully) enjoyable for you. In addition, material presented in class – from lectures, films, and research demonstrations – will be included on the exams. It is your own responsibility to find out what you missed. Thus, it is to your benefit to come to every class and to borrow notes from a fellow student when you do have to miss a class.

ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors and Cognitive Science.

HH/PSYC 3260 3.0M (W) – COGNITION

INSTRUCTOR: TBA
OFFICE: TBA

DAY: Thursday
TIME: 8:30 – 11:30 am

PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C
COURSE CREDIT EXCLUSION: HH/PSYC 3135 3.0, GL/PSYC 3370 3.0

DESCRIPTION: See the course description for PSYC 3260 3.0A (F).

ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors and Cognitive Science.

HH/PSYC 3260 3.0N (W) – COGNITION

INSTRUCTOR: T. Nield
OFFICE: BSB 255

DAY: Monday
TIME: 2:30 – 5:30 pm

PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C
COURSE CREDIT EXCLUSION: HH/PSYC 3135 3.0, GL/PSYC 3370 3.0

DESCRIPTION: A survey of higher-order cognitive processes in humans. Topics include attention, memory, problem solving, thinking and language. A more detailed description will become available when an instructor has been assigned.

ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors and Cognitive Science.

AP/COGS/PHIL 4750 6.0A (Y) – HONOURS THESIS IN COGNITIVE SCIENCE

INSTRUCTOR: M. Khalidi
OFFICE: S438 Ross

DAY / TIME: Decided upon by student and instructor

DESCRIPTION: Students carry out an individual piece of research in cognitive science in consultation with a thesis supervisor and write a thesis. To complete the thesis requirement, students will each work with an individual faculty member on their particular project. The program coordinator will act as liaison between students and potential supervisors, and the student will be able to choose a supervisor from a list of possible options with advisement from the program coordinator.

AP/COGS/PHIL 4901 6.0A – HONOURS SEMINAR IN COGNITIVE SCIENCE

INSTRUCTOR: M. Khalidi

DAY: Wednesday

OFFICE: S438 Ross

TIME: 11:30 – 2:30 pm

PREREQUISITE: Students must be cognitive science majors with at least 48 credits in their major.

DESCRIPTION: This course will emphasize the inter-disciplinary nature of cognitive science and the bearing of recent research in cognitive science on real-world issues and problems. By the end of the course, students will have completed an original research project in cognitive science that builds on their previous coursework and training in the various disciplines that constitute the field of cognitive science.

By focusing on specific themes and current debates an attempt will be made throughout the course to make connections between the various disciplines that constitute the interdisciplinary field of cognitive science. Some of the themes and debates covered will include: the relationship between thought and language, mental representation, the modularity and domain-specificity of cognition, concepts and conceptual change, gender and cognition, situated and embedded cognition, neural networks and the compositionality of thought, evolutionary psychology and human nature, innateness and learning, and rationality, among others. This course is the capstone for students in the COGS Honours BA program.

Note: Students must be Cognitive Science majors with at least 48 credits in their major

II. ANALYTICAL

Take 6 credits from the following:

SC/CSE 1020 3.0A (F) – INTRODUCTION TO COMPUTER SCIENCE I

INSTRUCTOR: TBA

DAY: Wednesday

OFFICE: TBA

TIME: 7:00 – 10:00 pm

PREREQUISITE: One of (1) - (4) below must be met:

(1) (New high school curriculum): Two 12U Math courses including advanced functions and introductory calculus with minimum mathematics average of 75% on the two courses, and no mathematics grade below 65%.

(2) (Old high school curriculum): OAC calculus and one other OAC in mathematics (normally finite mathematics or algebra and geometry) with an average grade of 75% in all OAC mathematics and no grade less than 65%.

(3) Completion of 6.0 credits from York University MATH courses (not including AK/MATH 1710 6.00 or courses with second digit 5) with a grade average of 5.0 (C+) or better over these credits;

(4) Completion of AK/MATH 1710 6.00, or 6.0 credits from York University mathematics courses whose second digit is 5, with an average grade not below 7.0 (B+).

COURSE CREDIT EXCLUSION: AP/ITEC 1620 3.00

DESCRIPTION: Many processes can be viewed as a sequence of interactions between a client who requests a service and an implementer who provides it. The concerns of these two parties, albeit complementary, are completely separate because one deals with the "what" while the other deals with the "how". It is widely recognized that separating these concerns leads to reliable, scaleable, and maintainable software. Based on this, CSE 1020 deals exclusively with the client who needs to be able to look for services; read their API (Application Programming Interface) specifications; create programs that use them; and determine if they are operating

correctly relative to their specifications. Topics include delegation and contracts, encapsulation and APIs, aggregation and the collections framework, and inheritance and polymorphism. The course emphasizes the software development process and introduces elements of UML (Unified Modeling Language) and software engineering. Three lecture hours and weekly laboratory sessions.

The course uses the Java programming language throughout. Its assessment is based on a series of programming exercises and a number of written tests. The two components have approximately equal weights and are intended to measure the student's understanding of theoretical concepts and ability to build applications.

This course is an introduction to the discipline; it is not a survey course. As such the emphasis is on the development of a theoretical conceptual foundation and the acquisition of the intellectual and practical skills required for further courses in computer science. The course is intended for prospective computer science and computer engineering majors, i.e. those with a well-developed interest in computing as an academic field of study and with strong mathematical, analytical and language abilities; it is not intended for those who seek a quick exposure to applications or programming (for this purpose any of CSE 1520, CSE 1530 or CSE 1540 would be more appropriate).

Warning: The work for this course includes a substantial number of exercises that require problem analysis, program preparation, testing, analysis of results, and documentation and submission of written reports. The course is demanding in terms of time, and requires the student to put in many hours of work per week outside of lectures.

Recommendation: You will benefit if you have prior practical experience with programming as well as using a computer. Students who wish to take a one-course exposure to the practical aspects of computing should consider enrolling in CSE 1520 3.0 and CSE 1530 3.0 instead (see the following descriptions).

Strongly Recommended: Previous programming experience; for example, a high school programming course or CSE 1530 3.0.

SC/CSE 1020 3.0E (F) – INTRODUCTION TO COMPUTER SCIENCE I

INSTRUCTOR: TBA

DAY: Monday, Wednesday, Friday

OFFICE: TBA

TIME: 10:30 – 11:30 am

PREREQUISITE: One of (1) - (4) below must be met:

(1) (New high school curriculum): Two 12U Math courses including advanced functions and introductory calculus with minimum mathematics average of 75% on the two courses, and no mathematics grade below 65%.

(2) (Old high school curriculum): OAC calculus and one other OAC in mathematics (normally finite mathematics or algebra and geometry) with an average grade of 75% in all OAC mathematics and no grade less than 65%.

(3) Completion of 6.0 credits from York University MATH courses (not including AP/MATH 1710 6.00 or courses with second digit 5) with a grade average of 5.0 (C+) or better over these credits;

(4) Completion of AK/MATH 1710 6.00, or 6.0 credits from York University mathematics courses whose second digit is 5, with an average grade not below 7.0 (B+).

COURSE CREDIT EXCLUSION: AP/ITEC 1620 3.00

DESCRIPTION: See the description for CSE 1020 3.0A (F).

Warning: The work for this course includes a substantial number of exercises that require problem analysis, program preparation, testing, analysis of results, and documentation and submission of written reports. The course is demanding in terms of time, and requires the student to put in many hours of work per week outside of lectures.

Recommendation: See the recommendations for CSE 1020 3.0A (F).

SC/CSE 1020 3.0M (W) – INTRODUCTION TO COMPUTER SCIENCE I

INSTRUCTOR: TBA

DAY: Monday, Wednesday, Friday

OFFICE: TBA	TIME: 10:30 – 11:30 am
<p>PREREQUISITE: One of (1) - (4) below must be met: (1) (New high school curriculum): Two 12U Math courses including advanced functions and introductory calculus with minimum mathematics average of 75% on the two courses, and no mathematics grade below 65%. (2) (Old high school curriculum): OAC calculus and one other OAC in mathematics (normally finite mathematics or algebra and geometry) with an average grade of 75% in all OAC mathematics and no grade less than 65%. (3) Completion of 6.0 credits from York University MATH courses (not including AP/MATH 1710 6.00 or courses with second digit 5) with a grade average of 5.0 (C+) or better over these credits; (4) Completion of AP/MATH 1710 6.00, or 6.0 credits from York University mathematics courses whose second digit is 5, with an average grade not below 7.0 (B+). COURSE CREDIT EXCLUSION: AP/ITEC 1620 3.00</p>	
DESCRIPTION: See the description for CSE 1020 3.0A (F).	
<p>Warning: The work for this course includes a substantial number of exercises that require problem analysis, program preparation, testing, analysis of results, and documentation and submission of written reports. The course is demanding in terms of time, and requires the student to put in many hours of work per week outside of lectures.</p>	
Recommendation: See the recommendations for CSE 1020 3.0A (F).	

SC/CSE 1030 3.0A (F) – INTRODUCTION TO COMPUTER SCIENCE II	
INSTRUCTOR: TBA	DAY: Tuesday & Thursday
OFFICE: TBA	TIME: 2:30 – 4:00 pm
PREREQUISITE: SC/CSE 1020 3.00	
COURSE CREDIT EXCLUSION: AP/ITEC 2620 3.00	
<p>DESCRIPTION: This course continues the separation of concern theme introduced in CSE 1020. While CSE 1020 focused on the client concern, this course focuses on the concern of the implementer. Hence, rather than using an API (Application Programming Interface) to build an application, the student is asked to implement a given API. Topics include implementing classes (utilities/non-utilities, delegation within the class definition, documentation and API generation, and implementing contracts), aggregations (implementing aggregates versus compositions and implementing collections), inheritance hierarchies (attribute visibility, overriding methods, abstract classes versus interfaces, inner classes); generics; building graphical user interfaces with an emphasis on the MVC (Model-View-Controller) design pattern; recursion; searching and sorting (including quick and merge sorts); linked lists; and stacks and queues. The coverage also includes a few design patterns. Three lecture hours and weekly laboratory sessions.</p>	

SC/CSE 1030 3.0M (W) – INTRODUCTION TO COMPUTER SCIENCE II	
INSTRUCTOR: TBA	DAY: Monday and Wednesday
OFFICE: TBA	TIME: 5:30 – 7:00 pm
PREREQUISITE: SC/CSE 1020 3.00	
COURSE CREDIT EXCLUSION: AP/ITEC 2620 3.00	
DESCRIPTION: See the description for CSE 1030 3.0A (F).	

SC/CSE 1030 3.0Z (W) – INTRODUCTION TO COMPUTER SCIENCE II	
INSTRUCTOR: TBA	DAY: Monday, Wednesday, Friday
OFFICE: TBA	TIME: 10:30 – 11:30 am
PREREQUISITE: SC/CSE 1020 3.00	
COURSE CREDIT EXCLUSION: AP/ITEC 2620 3.00	
DESCRIPTION: See the description for CSE 1030 3.0A (F).	

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SC/CSE 2001 3.0A (F) – INTRODUCTION TO THE THEORY OF COMPUTATION	
INSTRUCTOR: TBA	DAY: Tuesday & Thursday
OFFICE: TBA	TIME: 4:00 – 5:30 pm
PREREQUISITE: General prerequisites, CSE 1019 3.0	
<p>DESCRIPTION: The course introduces different theoretical models of computers. Topics covered may include the following.</p> <ul style="list-style-type: none"> • Finite automata and regular expressions; practical applications, e.g., text editors • Pushdown automata and context-free grammars; practical applications, e.g., parsing and compilers • Turing machines as a general model of computers; introduction to unsolvability: the halting problem 	

SC/CSE 2001 3.0Z (W) – INTRODUCTION TO THE THEORY OF COMPUTATION	
INSTRUCTOR: Zbigniew Stachniak	DAY: Monday & Wednesday
OFFICE: CSE 3052B	TIME: 2:30 – 4:00 pm
PREREQUISITE: General prerequisites, CSE 1019 3.0	
DESCRIPTION: See the course description for SC/CSE 2001 3.0A (F).	

AP/ITEC 1000 3.0A (F) – INTRODUCTION TO INFORMATION TECHNOLOGIES	
INSTRUCTOR: TBA	DAY: Monday & Wednesday
OFFICE: TBA	TIME: 11:30 – 1:00 pm
COURSE CREDIT EXCLUSION: GL/ITEC 1011 3.00. Prior TO FALL 2009: AK/AS/ITEC 1000 3.00, AK/AS/ITEC 1011 3.00, GL/ITEC 1011 3.00.	
<p>DESCRIPTION: This course introduces basic concepts of contemporary information technologies (computers, networks, telecommunications) used to process and store information in organizations. The course material includes both hardware and software components, which students compare, select and combine to solve information problems. NCR Note: No credit will be retained for this course for students who have successfully completed or who are currently enrolled in any computer science course at the 2000-level or higher.</p>	

AP/ITEC 1000 3.0B (F) – INTRODUCTION TO INFORMATION TECHNOLOGIES	
INSTRUCTOR: TBA	DAY: Monday
OFFICE: TBA	TIME: 7:00 – 10:00 pm
COURSE CREDIT EXCLUSION: GL/ITEC 1011 3.00. Prior TO FALL 2009: AK/AS/ITEC 1000 3.00, AK/AS/ITEC 1011 3.00, GL/ITEC 1011 3.00.	
<p>DESCRIPTION: This course introduces basic concepts of contemporary information technologies (computers, networks, telecommunications) used to process and store information in organizations. The course material includes both hardware and software components, which students compare, select and combine to solve information problems. NCR Note: No credit will be retained for this course for students who have successfully completed or who are currently enrolled in any computer science course at the 2000-level or higher.</p>	

AP/ITEC 1000 3.0M (W) – INTRODUCTION TO INFORMATION TECHNOLOGIES	
INSTRUCTOR: TBA	DAY: Monday & Wednesday
OFFICE: TBA	TIME: 11:30 – 1:00 pm
COURSE CREDIT EXCLUSION: GL/ITEC 1011 3.00. Prior TO FALL 2009: AK/AS/ITEC 1000 3.00, AK/AS/ITEC 1011 3.00, GL/ITEC 1011 3.00.	

DESCRIPTION: See the description for ITEC 1000 3.0A (F).

AP/ITEC 1000 3.0N (W) – INTRODUCTION TO INFORMATION TECHNOLOGIES

INSTRUCTOR: TBA

DAY: Monday

OFFICE: TBA

TIME: 7:00 – 10:00 pm

COURSE CREDIT EXCLUSION: GL/ITEC 1011 3.00. Prior TO FALL 2009: AK/AS/ITEC 1000 3.00, AK/AS/ITEC 1011 3.00, GL/ITEC 1011 3.00.

DESCRIPTION: See the description for ITEC 1000 3.0A (F).

AP/ITEC 1010 3.0A (F) – INFORMATION AND ORGANIZATIONS

INSTRUCTOR: TBA

DAY: Tuesday & Thursday

OFFICE: TBA

TIME: 10:00 – 11:30 am

COURSE CREDIT EXCLUSION: GL/ITEC 1010 3.00. Prior TO FALL 2009: AK/ITEC 1010 3.00, GL/ITEC 1010 3.00.

DESCRIPTION: The value and importance of information to organizations, how it is used, stored and processed; emphasizes the uses of information technologies of various kinds, the benefits of the technologies, and the associated costs and problems; use of desktop applications.

AP/ITEC 1010 3.0B (F) – INFORMATION AND ORGANIZATIONS

INSTRUCTOR: TBA

DAY: Wednesday

OFFICE: TBA

TIME: 7:00 – 10:00 pm

COURSE CREDIT EXCLUSION: GL/ITEC 1010 3.00. Prior TO FALL 2009: AK/ITEC 1010 3.00, GL/ITEC 1010 3.00.

DESCRIPTION: See the description for ITEC 1010 3.0A (F).

AP/ITEC 1010 3.0M (W) – INFORMATION AND ORGANIZATIONS

INSTRUCTOR: TBA

DAY: Tuesday & Thursday

OFFICE: TBA

TIME: 10:00 – 11:30 am

COURSE CREDIT EXCLUSION: GL/ITEC 1010 3.00. Prior TO FALL 2009: AK/ITEC 1010 3.00, GL/ITEC 1010 3.00.

DESCRIPTION: See the description for ITEC 1010 3.0A (F).

AP/ITEC 1010 3.0N (W) – INFORMATION AND ORGANIZATIONS

INSTRUCTOR: TBA

DAY: Wednesday

OFFICE: TBA

TIME: 7:00 – 10:00 pm

COURSE CREDIT EXCLUSION: GL/ITEC 1010 3.00. Prior TO FALL 2009: AK/ITEC 1010 3.00, GL/ITEC 1010 3.00.

DESCRIPTION: See the description for ITEC 1010 3.0A (F).

AP/LING 2120 3.0M (W) – FUNDAMENTALS OF PHONOLOGICAL ANALYSIS

INSTRUCTOR: TBA

DAY: Monday & Wednesday

OFFICE: TBA

TIME: 1:00 – 2:30 pm

PREREQUISITE: AP/LING 1000 6.0 with a minimum grade of C and AP/LING 2110 3.0, or permission of the Department.

COURSE CREDIT EXCLUSION: GL/EN/LIN 3601 3.00

DESCRIPTION: This course provides the background in phonology necessary for advanced work in linguistics. The main theoretical framework used is that of classical generative phonology. Emphasis throughout is on practical analysis and argumentation. The course also broadens the student's linguistic experience and judgement through the analysis of data from a wide variety of languages.

AP/LING 2140 3.0M (W) – FUNDAMENTALS OF GRAMMATICAL ANALYSIS**INSTRUCTOR:** TBA**DAY:** Tuesday & Thursday**OFFICE:** TBA**TIME:** 11:00 – 1:00 pm

PREREQUISITE: AP/LING 1000 6.0 with a minimum grade of C and AP/LING 2130 3.0, or permission of the Department.

DESCRIPTION: This course offers an introduction to syntactic analysis, building on concepts acquired in Linguistics 1000 and Linguistics 2130, and paves the way for Linguistics 3140. Topics include lexical and functional categories, morphosyntactic features, theta-roles and argument structure, the structure of phrases, constituency, and syntactic relationships within the clause.

AP/PHIL 2100 3.0M (W) – INTRODUCTION TO LOGIC**INSTRUCTOR:** H. Jackman**DAY:** Internet Course**OFFICE:** S431 Ross**TIME:** Internet**PREREQUISITES:** None

COURSE CREDIT EXCLUSION: PRIOR TO FALL 2009: AK/PHIL 2100 3.00 (prior to Summer 2007), AS/PHIL 2100 3.00.

DESCRIPTION: Logic, in the philosophical tradition, is the study of what makes arguments valid. That is, it aims to distinguish correct reasoning from faulty reasoning. This course presents the basic elements of modern symbolic logic for the beginning student.

HH/PSYC 2020 6.0A (Y) – STATISTICAL METHODS I AND II**INSTRUCTOR:** TBA**DAY:** Thursday**OFFICE:** TBA**TIME:** 7:00 – 10:00 pm

PREREQUISITE: HH/PSYC 1010 6.0 or HH/PSYC 2410 6.0 (with a minimum grade of C, when used as a prerequisite).

DESCRIPTION: An introduction to the analysis of data from psychological studies. Fundamental concepts and techniques of both descriptive and inferential statistics and their application to psychological research. A more detailed description will become available when an instructor has been assigned.

ACCESS SPECIFICATIONS: All spaces are held for Psychology majors/minors, Business and Society, Cognitive Science and Communications Studies.

HH/PSYC 2020 6.0B (Y) – STATISTICAL METHODS I AND II**INSTRUCTOR:** D. Goodman**DAY:** Monday & Wednesday**OFFICE:** BSB 253**TIME:** 8:30 – 10:30 am

PREREQUISITE: HH/PSYC 1010 6.0 or HH/PSYC 2410 6.0 (with a minimum grade of C, when used as a prerequisite).

DESCRIPTION: See course description for HH/PSYC 2020 6.0A (Y).

ACCESS SPECIFICATIONS: All spaces are held for Psychology majors/minors, Business and Society, Cognitive Science and Communications Studies.

HH/PSYC 2020 6.0C (Y) – STATISTICAL METHODS I AND II	
INSTRUCTOR: TBA	DAY: Monday
OFFICE: TBA	TIME: 11:30 – 2:30 pm
PREREQUISITE: HH/PSYC 1010 6.0 (with a minimum grade of C, when used as a prerequisite).	
DESCRIPTION: See course description for HH/PSYC 2020 6.0A (Y).	
ACCESS SPECIFICATIONS: All spaces are held for Psychology majors/minors, Business and Society, Cognitive Science and Communications Studies.	

HH/PSYC 2020 6.0D (Y) – STATISTICAL METHODS I AND II	
INSTRUCTOR: C. Green	DAY: Wednesday
OFFICE: 286 BSB	TIME: 11:30 – 2:30 pm
PREREQUISITE: HH/PSYC 1010 6.0 (with a minimum grade of C, when used as a prerequisite).	
DESCRIPTION: This course covers a variety of descriptive and inferential forms of statistical analysis commonly used by research psychologists. There is no computer component to this course. A more detailed description will become available the first week of classes.	
ACCESS SPECIFICATIONS: All spaces are held for Psychology majors/minors, Business and Society, Cognitive Science and Communications Studies.	
EVALUATION: Evaluation will be based on a fall midterm test, a winter midterm test and a final examination. Weekly assignments will be reviewed in class, but will not count towards the course mark.	

HH/PSYC 2020 6.0E (Y) – STATISTICAL METHODS I AND II	
INSTRUCTOR: T. Nield	DAY: Tuesday & Thursday
OFFICE: 255 BSB	TIME: 12:30 – 2:30 pm
PREREQUISITE: HH/PSYC 1010 6.0 (with a minimum grade of C, when used as a prerequisite).	
DESCRIPTION: See course description for HH/PSYC 2020 6.0A (Y).	
ACCESS SPECIFICATIONS: All spaces are held for Psychology majors/minors, Business and Society, Cognitive Science and Communications Studies.	

HH/PSYC 2020 6.0F (Y) – STATISTICAL METHODS I AND II	
INSTRUCTOR: TBA	DAY: Thursday
OFFICE: TBA	TIME: 2:30 – 5:30 pm
PREREQUISITE: HH/PSYC 1010 6.0 (with a minimum grade of C, when used as a prerequisite).	
DESCRIPTION: This course is designed to provide the student with the statistical skills necessary to analyze and understand the data from psychological research. Topics covered will include basic concepts of measurement, measures of central tendency, variability, and relationship. As well, selected inferential statistics will be covered (e.g. tests on correlations and mean differences). You should have a reasonably good working knowledge of high school algebra, but there will be NO calculus or matrix algebra in this course. A more detailed description will be available the first week of classes.	
ACCESS SPECIFICATIONS: All spaces are held for Psychology majors/minors, Business and Society, Cognitive Science and Communications Studies.	

HH/PSYC 2020 6.0G (Y) – STATISTICAL METHODS I AND II	
INSTRUCTOR: D. Goodman	DAY: Tuesday & Thursday
OFFICE: 253 BSB	TIME: 8:30 – 10:30 am
PREREQUISITE: HH/PSYC 1010 6.0 (with a minimum grade of C, when used as a prerequisite).	
DESCRIPTION: See the course description for PSYC 2020 6.0F (Y).	
ACCESS SPECIFICATIONS: All spaces are held for Psychology majors/minors, Business and Society, Cognitive Science and Communications Studies.	

Society, Cognitive Science and Communications Studies.

NOTE 1: STUDENTS WHO DISCONTINUE REGISTRATION IN PSYCHOLOGY 2020 6.0 AT THE END OF THE FALL TERM MAY NOT PETITION FOR CREDIT FOR A HALF-COURSE IN STATISTICS.

Course Credit Exclusions (CCE) may not be substituted for AK/AS/HH/SC/PSYC 2020 6.0 to satisfy Psychology degree requirements unless approved as acceptable substitutes by the department and Faculty as listed below. Students cannot take PSYC 2020 6.0 if they have taken another Statistics course (in any Department/Faculty). See the University Calendar for the list of Course Credit Exclusions.

NOTE 2: ONLY COURSES SPECIFIED IN THE FOLLOWING LIST MAY BE SUBSTITUTED FOR THE PSYC 2020 6.0 REQUIREMENT (SIX CREDITS ARE REQUIRED FOR SUBSTITUTION, EXCEPT AS INDICATED BELOW):

HH/PSYC 2021 3.0 and 2022 3.0
HH/PSYC 2510 3.0 / 3110 3.0
AP/ECON 2500 3.0 / 3500 3.0*
AP/ECON 3470 3.0/ 3480 3.0*
HH/KINE 2050 3.0/ 3150 3.0
SC/MATH 2560 3.0/ 2570 3.0
SC/MATH 2565 3.0 - NOT A SUBSTITUTION – CCE ONLY
AP/POLS 3300 6.0* - NOT A SUBSTITUTION – CCE ONLY
AP/SOCI 3030 6.0* - NOT A SUBSTITUTION – CCE ONLY

PLEASE BE ADVISED THAT ALL COURSES LISTED IN “NOTE 3” ARE ALSO COURSE CREDIT EXCLUSIONS FOR PSYC 2020 6.0.

NOTE 3: ONLY COURSES SPECIFIED IN THE FOLLOWING LIST MAY BE SUBSTITUTED FOR THE PSYC 2021 3.0 REQUIREMENT (THREE CREDITS ARE REQUIRED FOR SUBSTITUTION):

HH/PSYC 2020 6.0
HH/PSYC 2510 3.0
GL/PSYC 2530 3.0
SC/BIOL 2060 3.0 (Prior to Summer 2000 – 3090 3.0)
AP/ECON 2500 3.0*
AP/ECON 3470 3.0*
SC/KINE 2050 3.0
SC/MATH 1131 3.0 - UNTIL F/W 2006
SC/MATH 2500 3.0 - NOT A SUBSTITUTION – CCE ONLY
SC/MATH 2560 3.0
AP/POLS 3300 6.0* - NOT A SUBSTITUTION – CCE ONLY
AP/SOCI 3030 6.0* - NOT A SUBSTITUTION – CCE ONLY

NOTE 4: ONLY COURSES SPECIFIED IN THE FOLLOWING LIST MAY BE SUBSTITUTED FOR THE PSYC 2022 3.0 REQUIREMENT (THREE CREDITS ARE REQUIRED FOR SUBSTITUTION):

HH/PSYC 2020 6.0
HH/PSYC 3110 3.0
AP/ECON 3500 3.0*
AP/ECON 3480 3.0*
HH/KINE 3150 3.0
SC/MATH 2570 3.0
AP/POLS 3300 6.0* - NOT A SUBSTITUTION – CCE ONLY
AP/SOCI 3030 6.0* - NOT A SUBSTITUTION – CCE ONLY

*** Not appropriate for Science students**

HH/PSYC 2021 3.0A (F) – STATISTICAL METHODS I

INSTRUCTOR: TBA	DAY: Monday
OFFICE: TBA	TIME: 4:00 – 7:00 pm

PREREQUISITE: HH/PSYC 1010 6.0 or HH/PSYC 2410 6.0 (with a minimum grade of C, when used as a prerequisite).**DESCRIPTION:** The fundamental concepts and application of descriptive statistics. An introduction to probability and inferential statistics, including hypothesis testing with the normal- and t-distributions. A more detailed description will be available the first week of classes.**ACCESS SPECIFICATIONS:** All spaces are held for Psychology majors/minors, Business and Society, Cognitive Science and Communications Studies.**HH/PSYC 2021 3.0B (F) – STATISTICAL METHODS I**

INSTRUCTOR: TBA	DAY: Friday
OFFICE: TBA	TIME: 8:30 – 11:30 am

PREREQUISITE: HH/PSYC 1010 6.0 (with a minimum grade of C, when used as a prerequisite).**DESCRIPTION:** The fundamental concepts and application of descriptive statistics. An introduction to probability and inferential statistics, including hypothesis testing with the normal- and t-distributions. A more detailed description will become available when an instructor has been assigned.**ACCESS SPECIFICATIONS:** All spaces are held for Psychology majors/minors, Business and Society, Cognitive Science and Communications Studies.**HH/PSYC 2021 3.0C (F) – STATISTICAL METHODS I**

INSTRUCTOR: TBA	DAY: Thursday
OFFICE: TBA	TIME: 8:30 – 11:30 am

PREREQUISITE: HH/PSYC 1010 6.0 (with a minimum grade of C, when used as a prerequisite).**DESCRIPTION:** The fundamental concepts and application of descriptive statistics. An introduction to probability and inferential statistics, including hypothesis testing with the normal- and t-distributions. A more detailed description will become available when an instructor has been assigned.**ACCESS SPECIFICATIONS:** All spaces are held for Psychology majors/minors, Business and Society, Cognitive Science and Communications Studies.**HH/PSYC 2021 3.0M (W) – STATISTICAL METHODS I**

INSTRUCTOR: TBA	DAY: Tuesday
OFFICE: TBA	TIME: 7:00 – 10:00 pm

PREREQUISITE: HH/PSYC 1010 6.0 (with a minimum grade of C, when used as a prerequisite).**DESCRIPTION:** For course description see HH/PSYC 2021 3.0B (F).**ACCESS SPECIFICATIONS:** All spaces are held for Psychology majors/minors, Business and Society, Cognitive Science and Communications Studies.**HH/PSYC 2021 3.0N (W) – STATISTICAL METHODS I**

INSTRUCTOR: TBA	DAY: Thursday
OFFICE: TBA	TIME: 8:30 – 11:30 am

PREREQUISITE: HH/PSYC 1010 6.0 (with a minimum grade of C, when used as a prerequisite).**DESCRIPTION:** See the description for PSYC 2021 3.0B (F).**ACCESS SPECIFICATIONS:** All spaces are held for Psychology majors/minors, Business and

Society, Cognitive Science and Communications Studies.

HH/PSYC 2030 3.0A (F) – INTRODUCTION TO RESEARCH METHODS

INSTRUCTOR: TBA

DAY: Thursday

OFFICE: TBA

TIME: 7:00 – 10:00 pm

PREREQUISITE: HH/PSYC 1010 6.0 OR HH/PSYC 2410 6.0, with a minimum grade of C. One of HH/PSYC 2020 6.0, HH/PSYC 2021 3.0 or substitute

COURSE CREDIT EXCLUSION: GL/PSYC 2520 3.0, KINE 2049 4.0, ENVS 2010 3.0 (prior to Summer of 2003) and ENVS 3009 3.0. Not open to students who have passed or are taking PSYC 3010 3.0 or AK/PSYC 3180 3.0 or substitute.

DESCRIPTION: An introduction to the use of experimental and non-experimental research methods by psychologists in the study of behaviour. Topics such as research design, external and internal validity, sources of bias, APA style and ethics are considered. A more detailed description will become available when an instructor has been assigned.

ACCESS SPECIFICATIONS: All spaces are held for Psychology majors/minors and Cognitive Science.

HH/PSYC 2030 3.0B (F) – INTRODUCTION TO RESEARCH METHODS

INSTRUCTOR: TBA

DAY: Monday

OFFICE: TBA

TIME: 2:30 – 5:30 pm

PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C. One of HH/PSYC 2020 6.0 or HH/PSYC 2021 3.0 or substitute.

COURSE CREDIT EXCLUSION: GL/PSYC 2520 3.0, HH/KINE 2049 4.0, ES/ENVS 2010 3.0 (prior to Summer of 2003) and ES/ENVS 3009 3.0. Not open to students who have passed or are taking HH/PSYC 3010 3.0 or HH/PSYC 3180 3.0 or substitute.

DESCRIPTION: See the course description for PSYC 2030 3.0A (F).

ACCESS SPECIFICATIONS: All spaces are held for Psychology majors/minors and Cognitive Science.

HH/PSYC 2030 3.0C (F) – INTRODUCTION TO RESEARCH METHODS

INSTRUCTOR: TBA

DAY: Tuesday

OFFICE: TBA

TIME: 8:30 – 11:30 am

PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C. One of HH/PSYC 2020 6.0 or HH/PSYC 2021 3.0 or substitute.

COURSE CREDIT EXCLUSION: GL/PSYC 2520 3.0, HH/KINE 2049 4.0, ES/ENVS 2010 3.0 (prior to Summer of 2003) and ES/ENVS 3009 3.0. Not open to students who have passed or are taking HH/PSYC 3010 3.0 or HH/PSYC 3180 3.0 or substitute.

DESCRIPTION: See the course description for PSYC 2030 3.0A (F).

ACCESS SPECIFICATIONS: All spaces are held for Psychology majors/minors and Cognitive Science.

HH/PSYC 2030 3.0M (W) – INTRODUCTION TO RESEARCH METHODS

INSTRUCTOR: TBA

DAY: Monday

OFFICE: TBA

TIME: 7:00 – 10:00 pm

PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C. One of HH/PSYC 2020 6.0 or HH/PSYC 2021 3.0 or substitute.

COURSE CREDIT EXCLUSION: GL/PSYC 2520 3.0, HH/KINE 2049 4.0, ES/ENVS 2010 3.0 (prior to Summer of 2003) and ES/ENVS 3009 3.0. Not open to students who have passed or are taking HH/PSYC 3010 3.0 or HH/PSYC 3180 3.0 or substitute.

DESCRIPTION: See the course description for PSYC 2030 3.0A (F).

ACCESS SPECIFICATIONS: All spaces are held for Psychology majors/minors and Cognitive Science.

HH/PSYC 2030 3.0N (W) – INTRODUCTION TO RESEARCH METHODS

INSTRUCTOR: TBA

DAY: Friday

OFFICE: TBA

TIME: 11:30 – 2:30 pm

PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C. One of HH/PSYC 2020 6.0 or HH/PSYC 2021 3.0 or substitute.

COURSE CREDIT EXCLUSION: GL/PSYC 2520 3.0, HH/KINE 2049 4.0, ES/ENVS 2010 3.0 (prior to Summer of 2003) and ES/ENVS 3009 3.0. Not open to students who have passed or are taking HH/PSYC 3010 3.0 or HH/PSYC 3180 3.0 or substitute.

DESCRIPTION: See the description for PSYC 2030 3.0A (F).

ACCESS SPECIFICATIONS: All spaces are held for Psychology majors/minors and Cognitive Science.

HH/PSYC 2030 3.0O (W) – INTRODUCTION TO RESEARCH METHODS

INSTRUCTOR: TBA

DAY: Thursday

OFFICE: TBA

TIME: 2:30 – 5:30 pm

PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C. One of HH/PSYC 2020 6.0 or HH/PSYC 2021 3.0 or substitute.

COURSE CREDIT EXCLUSION: GL/PSYC 2520 3.0, HH/KINE 2049 4.0, ES/ENVS 2010 3.0 (prior to Summer of 2003) and ES/ENVS 3009 3.0. Not open to students who have passed or are taking HH/PSYC 3010 3.0 or HH/PSYC 3180 3.0 or substitute.

DESCRIPTION: See the description for PSYC 2030 3.0A (F).

ACCESS SPECIFICATIONS: All spaces are held for Psychology majors/minors and Cognitive Science.

HH/PSYC 2030 3.0P (W) – INTRODUCTION TO RESEARCH METHODS

INSTRUCTOR: TBA

DAY: Tuesday

OFFICE: TBA

TIME: 2:30 – 5:30 pm

PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C. One of HH/PSYC 2020 6.0 or HH/PSYC 2021 3.0 or substitute.

COURSE CREDIT EXCLUSION: GL/PSYC 2520 3.0, HH/KINE 2049 4.0, ES/ENVS 2010 3.0 (prior to Summer of 2003) and ES/ENVS 3009 3.0. Not open to students who have passed or are taking HH/PSYC 3010 3.0 or HH/PSYC 3180 3.0 or substitute.

DESCRIPTION: See the description for PSYC 2030 3.0A (F).

ACCESS SPECIFICATIONS: All spaces are held for Psychology majors/minors and Cognitive Science.

III. INTRODUCTORY PHILOSOPHY

Take 3 credits from the following:

AP/PHIL 2160 3.0A (F) – MIND, BRAINS, AND MACHINES

INSTRUCTOR: K. Andrews

DAY: Tuesday & Thursday

OFFICE: S420 Ross

TIME: 10:00 – 11:30 am

COURSE CREDIT EXCLUSION: AP/PHIL 2160 3.0, AP/PHIL 2240 3.0

DESCRIPTION: An introduction to the interdisciplinary study of human cognition. Questions covered include: What is artificial intelligence? Is it possible that we will someday build computers that think? Does language affect thought? Do we think in language or pictures? How is conscious experience related to the brain?

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AP/PHIL 2240 3.0A (F) – INTRODUCTION TO THE PHILOSOPHY OF MIND	
INSTRUCTOR: TBA	DAY: Monday & Wednesday
OFFICE: TBA	TIME: 1:00 – 2:30 pm
COURSE CREDIT EXCLUSION: None.	
<p>DESCRIPTION: An introduction to metaphysical theories the relationship between the mind and the body. We examine Descartes' mind-body dualism as well as 20th century theories including: behaviorism, the identity theory, machine and causal functionalism, instrumentalism, eliminativism, and emergentism.</p>	

IV. MID-LEVEL COMPUTER SCIENCE, LINGUISTICS, PSYCHOLOGY
*Take 9 credits from the following,
and including at least two different disciplines (departments):*

SC/CSE 2011 3.0A (F) – FUNDAMENTALS OF DATA STRUCTURES	
INSTRUCTOR: TBA	DAY: Tuesday & Thursday
OFFICE: TBA	TIME: 5:30 – 7:00 pm
PREREQUISITE: SC/CSE 1019 3.00 or SC/MATH 1019 3.00	
<p>DESCRIPTION: This course discusses the fundamental data structures commonly used in the design of algorithms. At the end of this course, students will know the classical data structures, and master the use of abstraction, specification and program construction using modules. Furthermore, students will be able to apply these skills effectively in the design and implementation of algorithms.</p> <p>Topics covered may include the following.</p> <ul style="list-style-type: none"> • Review of primitive data types and abstract data type — arrays, stacks, queues and lists • Searching and sorting; a mixture of review and new algorithms • Priority queues • Trees: threaded, balanced (AVL-, 2-3-, and/or B-trees), tries • Graphs: representations; transitive closure; graph traversals; spanning trees; minimum path; flow problems 	

SC/CSE 2011 3.0Z (W) – FUNDAMENTALS OF DATA STRUCTURES	
INSTRUCTOR: TBA	DAY: Tuesday & Thursday
OFFICE: TBA	TIME: 1:00 – 2:30 pm
PREREQUISITE: SC/CSE 1019 3.00 or SC/MATH 1019 3.00	
DESCRIPTION: See the description for CSE 2011 3.0A.	

SC/CSE 3401 3.0A (F) – FUNCTIONAL AND LOGIC PROGRAMMING	
INSTRUCTOR: TBA	DAY: Tuesday & Thursday
OFFICE: TBA	TIME: 5:30 – 7:00 pm
PREREQUISITE: SC/MATH 1090 3.00	
<p>DESCRIPTION: This course covers functional and logic programming. Together with the students' background on procedural and object-oriented programming, the course allows them to compare the development of programs in these different types of languages.</p> <p>"Functional programs work with values, not states. Their tools are expressions, not commands. How can assignments, arrays and loops be dispensed with? Does not the outside world have states? These questions pose real challenges. The functional programmer can exploit a wide</p>	

range of techniques to solve problems." (Paulson, 1996)

"Based on predicate logic, it [logic programming] allows computing problems to be expressed in a completely 'declarative' way, without giving instructions for how the problem is to be solved. An execution mechanism, like the one embodied in implementations of Prolog, can then be used to search efficiently and systematically for a solution of the problem." (Spivey, 1996)

Topics on functional programming may include: recursive, polymorphic and higher-order functions; recursive types and type inference. Topics on logic programming may include backtracking, resolution and unification.

SC/CSE 3401 3.0M (W) – FUNCTIONAL AND LOGIC PROGRAMMING

INSTRUCTOR: TBA

DAY: Monday & Wednesday

OFFICE: TBA

TIME: 4:00 – 5:30 pm

PREREQUISITE: SC/MATH 1090 3.00

DESCRIPTION: See the description for CSE 3401 3.0A.

SC/CSE 3402 3.0M (W) – INTRODUCTION TO CONCEPTS OF ARTIFICIAL INTELLIGENCE

INSTRUCTOR: TBA

DAY: Monday, Wednesday, Friday

OFFICE: TBA

TIME: 2:30 – 3:30 pm

PREREQUISITE: SC/COSC 3401 3.00 or SC/CSE 3401 3.00

DESCRIPTION: Artificial Intelligence (AI) deals with building a system that can operate in an intelligent fashion. Neat as this simple definition is, it obscures the complex nature of intelligence. At the time of the Dartmouth Conference (1956), regarded by many as the start of AI, some researchers believed it would be possible to create a "thinking machine" in a matter of a few years. That was close to 40 years ago, and we are still far from our goal, but we have learned a lot on the way.

In this course, we begin by discussing differing definitions of artificial intelligence and go on to examine fundamental concepts in AI, building on material introduced in CSE 3401 3.0: Functional and Logic Programming. Topics to be covered include reasoning under uncertainty, search, constraint propagation, planning and problem-solving.

AP/ITEC 3230 3.0A (F) – DESIGNING USER INTERFACES

INSTRUCTOR: TBA

DAY: Monday

OFFICE: TBA

TIME: 2:30 – 5:30 pm

PREREQUISITE: General prerequisites. Note: This course will not count for computer science major or minor credit.

COURSE CREDIT EXCLUSION: SC/CSE 3461 3.00. Prior TO FALL 2009: AK/ITEC 3230 3.00, AK/AS/ITEC 3461 3.00, AK/AS/SC/COSC 3461 3.00, AK/AS/SC/CSE 3461 3.00.

DESCRIPTION: Examines a range of topics in the analysis and design of interfaces and human-computer interaction. Focusing on the human perspective, the course will discuss improving interaction with computers and reducing the possible mismatch between human and machine.

AP/ITEC 3230 3.0M (W) – DESIGNING USER INTERFACES

INSTRUCTOR: TBA

DAY: Thursday

OFFICE: TBA

TIME: 2:30 – 5:30 pm

PREREQUISITE: General prerequisites. Note: This course will not count for computer science major or minor credit.

COURSE CREDIT EXCLUSION: SC/CSE 3461 3.00. Prior TO FALL 2009: AK/ITEC 3230 3.00, AK/AS/ITEC 3461 3.00, AK/AS/SC/COSC 3461 3.00, AK/AS/SC/CSE 3461 3.00.

DESCRIPTION: See the description for ITEC 3230 3.0A (F).

AP/ITEC 3230 3.0N (W) – DESIGNING USER INTERFACES

INSTRUCTOR: TBA

DAY: Thursday

OFFICE: TBA

TIME: 7:00 – 10:00 pm

PREREQUISITE: General prerequisites. Note: This course will not count for computer science major or minor credit.

COURSE CREDIT EXCLUSION: AP/ITEC 3461 3.00, SC/COSC 3461 3.00

SC/CSE 3461 3.00.

DESCRIPTION: See the description for ITEC 3230 3.0A (F).

AP/LING 3120 3.0A (F) – PHONOLOGY

INSTRUCTOR: TBA

DAY: Monday & Wednesday

OFFICE: TBA

TIME: 1:00 – 2:30 pm

PREREQUISITE: AP/LING 2110 3.0 and AP/LING 2120 3.0, or permission of the Department.

DESCRIPTION: This course builds on the skills acquired in AP/LING 2120 3.0, continuing with practical work in the solution of problems from a variety of languages. Students will be introduced to basic concepts of non-linear phonology, as well as more current theoretical trends.

AP/LING 3140 3.0A (F) – SYNTAX

INSTRUCTOR: TBA

DAY: Tuesday & Thursday

OFFICE: TBA

TIME: 1:00 – 2:30 pm

PREREQUISITE: AP/LING 2140 3.0, or permission of the Department.

DESCRIPTION: This course focuses on core aspects of syntactic theory from a Minimalist perspective. Concepts covered in Linguistics 2140 are assumed throughout. Topics discussed include VP shells, properties of functional categories, Case theory, head and XP movement, and DP structure, among others.

AP/LING 3210 3.0M (W) – FIRST LANGUAGE ACQUISITION

INSTRUCTOR: TBA

DAY: Monday & Wednesday

OFFICE: TBA

TIME: 5:30 – 7:00 pm

PREREQUISITE: AP/LING 1000 6.0 or AP/LING 3220 3.0 or HH/PSYC 3290 3.0

DESCRIPTION: This course introduces students to the study of first language acquisition including the acquisition of phonology, morphology, syntax and pragmatics. It provides a survey of different approaches to first language acquisition, including social interactionist, innatist, and information processing. Special attention is paid to the type of data relevant to the different approaches.

AP/LING 3220 3.0A (F) – PSYCHOLINGUISTICS (equivalent to AP/PSYC 3290)

INSTRUCTOR: TBA

DAY: Tuesday & Thursday

OFFICE: TBA

TIME: 2:30 – 4:00 pm

PREREQUISITE: AS/LING 1000 6.0 or AS/PSYC 1010 6.0 with a minimum grade of C. 25 spaces reserved for Linguistics majors.

COURSE CREDIT EXCLUSION: HH/PSYC 3190 3.00, HH/PSYC 3250 3.00 (prior to Summer 2002).

DESCRIPTION: This section of the course approaches the psychology of language from the perspective of linguistics. After a brief introduction to language structure, the main focus of the course will deal with issues concerning the kinds of representations and processes used to produce and comprehend speech; that is, how are words and grammatical structure stored and used? Topics covered include speech perception, word and sentence comprehension, speech

production, language and the brain, and language and thought.

HH/PSYC 2110 3.0A (F) – DEVELOPMENTAL PSYCHOLOGY

INSTRUCTOR: E. Bialystok
OFFICE: 234 BSB

DAY/TIME: Tuesday 8:30 – 10:30 am &
Thursday 9:30 – 10:30 am

PREREQUISITE: HH/PSYC 1010 6.0 or HH/PSYC 2410 6.0, with a minimum grade of C.
COURSE CREDIT EXCLUSION: HH/PSYC 3240 3.0, GL/PSYC 3300 3.0

DESCRIPTION: This course considers physical, intellectual, emotional and social development from birth through adolescence and the impact of the interaction of these various aspects of development upon the individual as a whole. A more detailed description will be available the first week of classes.

ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors and Cognitive Science.

HH/PSYC 2110 3.0B (F) – DEVELOPMENTAL PSYCHOLOGY

INSTRUCTOR: S. Shankar
OFFICE: TBA

DAY: Thursday
TIME: 11:30 am – 2:30 pm

PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C
COURSE CREDIT EXCLUSION: HH/PSYC 3240 3.0, GL/PSYC 3300 3.0

DESCRIPTION: See the course description for PSYC 2110 3.0A (F).

ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors and Cognitive Science.

HH/PSYC 2110 3.0C (F) – DEVELOPMENTAL PSYCHOLOGY

INSTRUCTOR: M. Wintre
OFFICE: 327 BSB

DAY: Thursday
TIME: 2:30 – 5:30 pm

PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C
COURSE CREDIT EXCLUSION: HH/PSYC 3240 3.0, GL/PSYC 3300 3.0

DESCRIPTION: This course will survey developmental psychology across the lifespan, with a primary focus on infancy through adolescence. Content will include theoretical and methodological issues, research findings, and practical implications. The course deals with biological, cognitive, social and personality development.

ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors and Cognitive Science.

HH/PSYC 2110 3.0M (W) – DEVELOPMENTAL PSYCHOLOGY

INSTRUCTOR: TBA
OFFICE: TBA

DAY: Wednesday
TIME: 7:00 – 10:00 pm

PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C
COURSE CREDIT EXCLUSION: HH/PSYC 3240 3.0, GL/PSYC 3300 3.0

DESCRIPTION: See the course description for PSYC 2110 3.0A (F).

ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors and Cognitive Science.

HH/PSYC 2110 3.0N (W) – DEVELOPMENTAL PSYCHOLOGY

INSTRUCTOR: M. Wintre
OFFICE: 327 BSB

DAY: Thursday
TIME: 2:30 – 5:30 pm

PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C COURSE CREDIT EXCLUSION: HH/PSYC 3240 3.0, GL/PSYC 3300 3.0
DESCRIPTION: See the course description for PSYC 2110 3.0C (F).
ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors and Cognitive Science.

HH/PSYC 2110 3.00 (W) – DEVELOPMENTAL PSYCHOLOGY	
INSTRUCTOR: TBA OFFICE: TBA	DAY: Monday TIME: 11:30 – 2:30 pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C COURSE CREDIT EXCLUSION: HH/PSYC 3240 3.0, GL/PSYC 3300 3.0	
DESCRIPTION: This course considers the various theoretical and empirical aspects of change as the infant and child grows, matures, and develops. Topics will include physical, perceptual, cognitive, language, social and emotional, and moral development. The role of biology versus experience in development will be a constant underlying them. A more detailed description will be available the first week of classes.	
OTHER INFORMATION: Course website: http://www.psych.yorku.ca/adler/courses/2110/index.html	
ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors and Cognitive Science.	

HH/PSYC 2120 3.0A (F) – SOCIAL PSYCHOLOGY	
INSTRUCTOR: W. Struthers OFFICE: 238 BSB	DAY: Thursday TIME: 8:30 – 11:30 am
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C. COURSE CREDIT EXCLUSION: AK/PSYC 3210 3.0, GL/PSYC 3660 3.0.	
DESCRIPTION: This is a course in social psychology or the study of how individuals think and feel about, relate to, and influence one another based on the actual, implied, or perceived presence of other individuals. Generally, this course will provide students with a background in social psychology and an opportunity to learn about various theoretical, conceptual, practical, and empirical social psychological issues.	
ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors, Business and Society, Law and Society, Cognitive Science and Communication Studies.	

HH/PSYC 2120 3.0B (F) – SOCIAL PSYCHOLOGY	
INSTRUCTOR: D. McCann OFFICE: 247 BSB	DAY: Wednesday TIME: 11:30 – 2:30 pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C COURSE CREDIT EXCLUSION: HH/PSYC 3240 3.0, GL/PSYC 3300 3.0	
DESCRIPTION: This course is designed to provide students with an introduction to the topic of social psychology. The topics studied include research methods, attitudes and social information processing, group processes, prejudice, and aggression and altruism. This course will deal both with basic and applied issues and research. Classes will consist of a combination of lectures, films, and experimental demonstrations.	
ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors, Business and Society, Law and Society, Cognitive Science and Communication Studies.	

HH/PSYC 2120 3.0C (F) – SOCIAL PSYCHOLOGY
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INSTRUCTOR: W. Struthers OFFICE: 238 BSB	DAY: Tuesday TIME: 11:30 – 2:30 pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C COURSE CREDIT EXCLUSION: HH/PSYC 3240 3.0, GL/PSYC 3300 3.0	
DESCRIPTION: This course is designed to provide a <u>social issues</u> perspective on Social Psychology, consistent with the widespread applied emphasis in the field. The traditional topics of attitudes, social perception and influence, interpersonal attraction, aggression, helping, and group dynamics will be covered. In addition, however, these topics will be <u>applied</u> to various contemporary issues such as rape and pornography, loneliness, the control and prevention of violence, human sexuality, and marriage and divorce.	
ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors, Business and Society, Law and Society, Cognitive Science and Communication Studies.	

HH/PSYC 2120 3.0M (W) – SOCIAL PSYCHOLOGY	
INSTRUCTOR: K. Kawakami OFFICE: 324 BSB	DAY: Wednesday TIME: 11:30 – 2:30 pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C COURSE CREDIT EXCLUSION: HH/PSYC 3240 3.0, GL/PSYC 3300 3.0	
DESCRIPTION: The primary goal of this course is to provide students with an introduction to research and theorizing in social psychology. Topics covered will include research methods, attitudes and social information processing, social influence, the self, group processes, prejudice, aggression, and interpersonal attraction.	
ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors, Business and Society, Law and Society, Cognitive Science and Communication Studies.	

HH/PSYC 2120 3.0N (W) – SOCIAL PSYCHOLOGY	
INSTRUCTOR: K. Kawakami OFFICE: 324 BSB	DAY: Wednesday TIME: 2:30 – 5:30 pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C COURSE CREDIT EXCLUSION: HH/PSYC 3240 3.0, GL/PSYC 3300 3.0	
DESCRIPTION: See the course description for PSYC 2120 3.0M (W).	
ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors, Business and Society, Law and Society, Cognitive Science and Communication Studies.	

HH/PSYC 2120 3.0O (W) – SOCIAL PSYCHOLOGY	
INSTRUCTOR: K. Kawakami OFFICE: 324 BSB	DAY: Friday TIME: 11:30 – 2:30 pm
PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C COURSE CREDIT EXCLUSION: HH/PSYC 3240 3.0, GL/PSYC 3300 3.0	
DESCRIPTION: See the course description for PSYC 2120 3.0M (W).	
ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors, Business and Society, Law and Society, Cognitive Science and Communication Studies.	

HH/PSYC 2220 3.0A (F) – SENSATION AND PERCEPTION I	
INSTRUCTOR: M. Steinbach OFFICE: 0009C CSE	DAY: Tuesday TIME: 7:00 – 10:00 pm
PREREQUISITE: HH/PSYC 1010 6.0, with a minimum grade of C. COURSE CREDIT EXCLUSION: HH/PSYC 3120 3.0, GL/PSYC 3690 3.0	

DESCRIPTION: A course in problems, experimental methods and research findings in sensation and perception. Vision will be covered in some detail, including discussion of the structure and function of the eye and cortical areas responsible for processing visual information. A more detailed description will become available the first week of classes.

ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors and Cognitive Science.

HH/PSYC 2220 3.0B (F) – SENSATION AND PERCEPTION I

INSTRUCTOR: L. Harris
OFFICE: 0009C CSE

DAY: Thursday
TIME: 11:30 – 2:30 pm

PREREQUISITE: HH/PSYC 1010 6.0, with a minimum grade of C.

COURSE CREDIT EXCLUSION: HH/PSYC 3120 3.0, GL/PSYC 3690 3.0

DESCRIPTION: A course in problems, experimental methods and research findings in sensation and perception. Vision will be covered in some detail, including discussion of the structure and function of the eye and cortical areas responsible for processing visual information. A more detailed description will become available the first week of classes.

ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors and Cognitive Science.

HH/PSYC 2220 3.0M (W) – SENSATION AND PERCEPTION I

INSTRUCTOR: TBA
OFFICE: TBA

DAY: Tuesday
TIME: 11:30 – 2:30 pm

PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C

COURSE CREDIT EXCLUSION: HH/PSYC 3120 3.0, GL/PSYC 3690 3.0

DESCRIPTION: This course looks at the question “how do we perceive things?” Vision is examined in most detail, but hearing is also covered. Topics include the structure and function of the eye and visual system and various aspects of seeing and hearing: including how you see and hear things that are not present in your eye or ear and how you miss things that are! A more detailed course description will be available in the first week of class.

HH/PSYC 2240 3.0A (F) – BIOLOGICAL BASIS OF BEHAVIOUR

INSTRUCTOR: TBA
OFFICE: TBA

DAY: Tuesday
TIME: 2:30 – 5:30 pm

PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C

COURSE CREDIT EXCLUSION: HH/PSYC 3145 3.0, GL/PSYC 3670 3.0

DESCRIPTION: The goal of this course is to examine the biological explanations of behaviour. Topics will emphasize the neuroanatomical, neurophysiological, neurochemical correlates of behaviours, such as visual processing, wakefulness and sleep, reproductive behaviours, and higher cognitive processes (e.g. memory, language). In addition, we will explore various brain-behaviour issues such as the lateralization of function and recovery of function after brain damage.

ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors and Cognitive Science.

HH/PSYC 2240 3.0B (F) – BIOLOGICAL BASIS OF BEHAVIOUR

INSTRUCTOR: N. Wiener
OFFICE: 334 BSB

DAY: Thursday
TIME: 8:30 – 11:30 am

PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C

COURSE CREDIT EXCLUSION: HH/PSYC 3145 3.0, GL/PSYC 3670 3.0
DESCRIPTION: See course description for PSYC 2240 3.0A (F).
ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors and Cognitive Science.

HH/PSYC 2240 3.0M (W) – BIOLOGICAL BASIS OF BEHAVIOUR	
INSTRUCTOR: TBA OFFICE: TBA	DAY: Wednesday TIME: 7:00 – 10:00 pm
PREREQUISITE: HH/PSYC 1010 6.0 or HH/PSYC 2410 6.0, with a minimum grade of C.	
COURSE CREDIT EXCLUSION: HH/PSYC 3145 3.0, GL/PSYC 3670 3.0	
DESCRIPTION: An introduction to fundamental principles of brain function and neural organization, as illustrated by classic findings and current research. Topics may include sleep and dreaming, memory, sensory motor processing, motivation (e.g., eating, reproductive behaviours), higher cognitive processes, and neurological disorders. A more detailed description will become available when an instructor has been assigned.	
ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors and Cognitive Science.	

HH/PSYC 3250 3.0A (F) – NEURAL BASIS OF BEHAVIOUR	
INSTRUCTOR: J. DeSouza OFFICE: 1012A CSE	DAY: Thursday TIME: 11:30 – 2:30 pm
PREREQUISITES: HH/PSYC 1010 6.0 or HH/PSYC 2410 6.0, with a minimum grade of C and HH/PSYC 2240 3.0 or HH/PSYC 3145 3.0.	
DESCRIPTION: This course surveys issues concerning the development and localization of cerebral functions, and examines experimental and clinical studies illustrating the effects of various brain traumas. A more detailed description will become available the first week of classes.	
ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors and Cognitive Science.	

HH/PSYC 3250 3.0M (W) – NEURAL BASIS OF BEHAVIOUR	
INSTRUCTOR: TBA OFFICE: TBA	DAY: Tuesday TIME: 11:30 – 2:30 pm
PREREQUISITES: HH/PSYC 1010 6.0 with a minimum grade of C and HH/PSYC 2240 3.0	
DESCRIPTION: This course surveys issues concerning the development and localization of cerebral functions, and examines experimental and clinical studies illustrating behavioural effects of brain damage. The purpose of the course is to help students understand the organization of the brain as it is revealed through cognitive dysfunction in brain-damaged individuals and functional neuroimaging.	
ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors and Cognitive Science.	

HH/PSYC 3265 3.0M (W) – MEMORY	
INSTRUCTOR: N. Park OFFICE: 213 BSB	DAY: Thursday TIME: 2:30 – 5:30 pm
PREREQUISITES: HH/PSYC 1010 6.0 or HH/PSYC 2410 6.0, with a minimum grade of C.	
COURSE CREDIT EXCLUSION: HH/PSYC 3135 3.0, GL/PSYC 3370 3.0	
DESCRIPTION: This course will examine a range of memory processes and will consider the	

experimental evidence that has helped to guide the development of theoretical formulations of how people perceive, understand, store, retrieve, and act on information. We will examine different conceptualizations of memory and review experimental evidence from cognitively unimpaired and patient populations. Laboratory and/or classroom demonstrations will be conducted in order to clarify the methods, findings, and theories under discussion. During these demonstrations, students will act as research participants and will provide data for analysis.

ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors and Cognitive Science.

HH/PSYC 3280 3.0A (F) – ANIMAL BEHAVIOUR

INSTRUCTOR: N. Wiener
OFFICE: 334 BSB

DAY: Wednesday
TIME: 8:30 – 11:30 am

PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C
COURSE CREDIT EXCLUSION: GL/PSYC 3680 3.0, GL/PSYC 3675 3.0

DESCRIPTION: The study of animal behaviour has undergone profound changes over the last few decades because of insights into the nature of behaviour resulting from a fusion of evolutionary theory and genetics. Research in animal behaviour has produced methods and findings that are significantly affecting a diverse group of disciplines including, psychology, anthropology, medicine, biology, sociology, and economics. We will discuss the conceptual bases, methods, and findings of modern animal behaviour research.

ACCESS SPECIFICATIONS: Most spaces are held for Psychology majors/minors and Cognitive Science.

HH/PSYC 3290 3.0A (F) – PSYCHOLINGUISTICS (cross-listed to: LING 3220 3.0)

INSTRUCTOR: TBA
OFFICE: TBA

DAY: Tuesday and Thursday
TIME: 2:30 – 4:00 pm

PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C or LING 1000 6.0
COURSE CREDIT EXCLUSION: HH/PSYC 3250 3.0

DESCRIPTION: A survey of psycholinguistic research and theory. Topics chosen from the following: introduction to language structure, biological basis for language, speech perception, sentence processing, speech production, relation of language and thought, language acquisition and atypical language. A more detailed description will become available when an instructor has been assigned.

ACCESS SPECIFICATIONS: Most spaces are held for students majoring in Psychology or Linguistics and Cognitive Science

HH/PSYC 3290 3.0M (W) – PSYCHOLINGUISTICS (cross-listed to: LING 3220 3.0)

INSTRUCTOR: TBA
OFFICE: TBA

DAY: Wednesday
TIME: 8:30 – 11:30 am

PREREQUISITE: HH/PSYC 1010 6.0 with a minimum grade of C or LING 1000 6.0
COURSE CREDIT EXCLUSION: HH/PSYC 3250 3.0

DESCRIPTION: See description for PSYC 3290 3.0A (F).

ACCESS SPECIFICATIONS: Most spaces are held for students majoring in Psychology or Linguistics and Cognitive Science

V. UPPER LEVEL COMPUTER SCIENCE, LINGUISTICS, PSYCHOLOGY, PHILOSOPHY

**Take 6 credits from the following,
and including at least two different disciplines (departments):**

SC/CSE 4401 3.0A (F) – ARTIFICIAL INTELLIGENCE	
INSTRUCTOR: TBA OFFICE: TBA	DAY: Tuesday & Thursday TIME: 11:30 – 1:00 pm
PREREQUISITES: General prerequisites, including CSE 3402 3.00 or COSC 3402 3.00. Course credit exclusion: SC/COSC 4401 3.00.	
DESCRIPTION: Introduction to the main ideas of current machine learning research: induction, abduction, deduction; learning from examples and formal models, Bayes' rule, Solomonoff's idea, Gold paradigm, Valiant model of learning, Rissanen's minimum description length principle; distribution free and unsupervised learning. Integrated with: GS/COSC 5326 3.00.	

SC/CSE 4421 3.0Z (W) – INTRODUCTION TO ROBOTICS	
INSTRUCTOR: TBA OFFICE: TBA	DAY: Monday, Wednesday, Friday TIME: 2:30 – 3:30 pm
PREREQUISITES: General prerequisites and SC/MATH 1025 3.00; SC/MATH 1310 3.00; SC/CSE 2031 3.00 or SC/COSC 2031 3.00	
DESCRIPTION: The course introduces the basic concepts of robotic manipulators and autonomous systems. After a review of some fundamental mathematics the course examines the mechanics and dynamics of robot arms, mobile robots, their sensors and algorithms for controlling them. A Robotics Laboratory is available equipped with a manipulator and a moving platform with sonar, several workstations, and an extensive collection of software	

SC/CSE 4422 3.0A (F) – COMPUTER VISION	
INSTRUCTOR: TBA OFFICE: TBA	DAY: Monday, Wednesday, Friday TIME: 9:30 – 10:30 am
PREREQUISITES: General prerequisites, including one of SC/CSE 3121 3.0 or SC/MATH 3241 3.0	
DESCRIPTION: This course introduces the fundamental concepts of vision with emphasis on computer science. In particular the course covers the image formation process, colour analysis, image processing, enhancement and restoration, feature extraction and matching, 3-D parameter estimation and applications. A Vision Laboratory is available equipped with cameras, workstations, image processing software and various robots where students can gain practical experience. Students are required to complete 12 hours of supervised lab work.	

SC/CSE 4441 3.0M (W) – HUMAN COMPUTER INTERACTION	
INSTRUCTOR: TBA OFFICE: TBA	DAY: Tuesday & Thursday TIME: 1:00 – 2:30 pm
PREREQUISITES: General prerequisites; SC/CSE 3461 3.00 or SC/COSC 3461 3.00. COURSE CREDIT EXCLUSION: SC/COSC 4341 3.00.	
DESCRIPTION: <ul style="list-style-type: none"> • Introduction (Goals, Motivation, Human Diversity) • Theory of Human-Computer Interaction (Golden Rules, Basic Principles, Guidelines) • The Design Process (Methodologies, Scenario Development) • Expert Reviews, Usability Testing, Surveys and Assessments • Software Tools (Specification Methods, Interface-Building Tools) • HCI Techniques • Interaction Devices (Keyboards, Pointing Devices, Speech Recognition, Displays, Virtual Reality Devices) • Windows, Menus, Forms and Dialog Boxes • Command and Natural Languages (Command Line and Natural Language Interfaces) 	

- Direct Manipulation and Virtual Environments
- Manuals, Help Systems, Tutorials
- Hypermedia and the World Wide Web (Design, Creation, Maintenance of Documents)
- Human Factors—Response Time and Display Rate; Presentation Styles—Balancing Function and Fashion (Layout, Colour); Societal Impact of User Interfaces (Information Overload); Computer Supported Cooperative Work (CSCW, Synchronous and Asynchronous); Information Search and Visualisation (Queries, Visualisation, Data Mining)

The topics of this course will be applied in practical assignments and/or group projects. The projects will consist of a design part, an implementation part and user tests to evaluate the prototypes.

AP/LING 4120 3.0 (W) – ADVANCED PHONOLOGY

INSTRUCTOR: TBA

DAY: Thursday

OFFICE: TBA

TIME: 11:30 – 2:30 pm

PREREQUISITE: AP/LING 3120 3.0 with a minimum grade of C+, or permission of the Department.

DESCRIPTION: This course concentrates on recent advances in phonological theory, including work in Optimality Theory. Specific topics include constraint- vs. rule-based approaches to phonology, lexical phonology, segmental representation and the role of markedness.

AP/PHIL 3200 3.0M (W) – PHILOSOPHY OF LANGUAGE

INSTRUCTOR: C. Verheggen

DAY: Wednesday

OFFICE: TBA

TIME: 11:30 – 2:30 pm

PREREQUISITE: Prerequisite: At least six credits in philosophy. PHIL 2100 3.00 is recommended. PRIOR TO FALL 2009: At least six credits in philosophy. AS/PHIL 2100 3.00 or AK/PHIL 2100 3.00 (prior to Summer 2007) is recommended.

COURSE CREDIT EXCLUSION: None. PRIOR TO FALL 2009: AK/AS/PHIL 3200 3.00.

DESCRIPTION: This course provides an introduction to basic notions of the philosophy of language. Questions to be discussed may include: How is communication in language possible? What is a language? What makes words and phrases meaningful? What is truth?

AP/PHIL 4080 3.0M (W) – SEMINAR IN THE PHILOSOPHY OF MIND

INSTRUCTOR: M. Khalidi

DAY: Thursday

OFFICE: S438 Ross

TIME: 11:30 – 2:30 pm

PREREQUISITE: At least nine credits in philosophy, including AP/PHIL 3260 3.00. PRIOR TO FALL 2009: At least nine credits in philosophy including AK/PHIL 3260 3.00 or AS/PHIL 3260 (prior to Summer 2007).

COURSE CREDIT EXCLUSION: None. PRIOR TO FALL 2009: AS/PHIL 4080 3.00.

DESCRIPTION: An intensive examination of one or more of the following topics: mind and body, thinking, intention, emotions, desires, motives, reasons, dispositions, memory, the unconscious and the concept of a person.

AP/PHIL 4082 3.0 – SEMINAR: PHILOSOPHY OF PERCEPTION

NOT OFFERED FALL/WINTER 2010 – 2011

AP/PHIL 4083 3.0A (F) – PHILOSOPHY OF CLINICAL PSYCHOLOGY

NOT OFFERED FALL/WINTER 2010 – 2011

AP/PHIL/4084 3.0A (F)- ANIMALS AND THE PHILOSOPHY OF MIND	
INSTRUCTOR: K. Andrews OFFICE: S420 Ross	DAY: Thursday TIME: 11:30 - 2:30 pm
PREREQUISITE: At least nine credits in philosophy, including AP/PHIL 3260 3.00 or AP/PHIL 3265 3.00. Course credit exclusions: None. PRIOR TO FALL 2009: Prerequisites: At least nine credits in philosophy, including AK/PHIL 3260 3.00, AS/PHIL 3260 3.00 (prior to Summer 2007) or AS/PHIL 3265 3.00 COURSE CREDIT EXCLUSION: AP/PHIL 4084 3.0	
DESCRIPTION: An examination of the history of animal cognition research, and methodological and conceptual issues related to animal minds.	

HH/PSYC 4010 6.0A (Y) – SEMINAR IN DEVELOPMENTAL PSYCHOLOGY	
INSTRUCTOR: TBA OFFICE: TBA	DAY: Thursday TIME: 7:00 – 10:00 pm
PREREQUISITES: PSYC 1010 6.0 or AK/PSYC 2410 6.0 with a minimum grade of C. PSYC 2030 3.0 or AK/PSYC 2530 3.0 or substitute; one of PSYC 2020 6.0, PSYC 2021 3.0, AK/PSYC 2510 3.0 or substitutes; and PSYC 2110 3.0 or AK/PSYC 3240 3.0. Students must be in an Honours Program in Psychology and have completed 84 credits (Excluding Education Courses). COURSE CREDIT EXCLUSION: HH/PSYC 4010 3.0, HH/SYC 4140 3.0, GL/PSYC 4510 3.0	
DESCRIPTION: Major modern theories of child development, with a focus on the infancy and early childhood periods, are extensively reviewed and their corresponding data and methodologies are analyzed. Comparison of major approaches, learning, cognitive, neuropsychological, will be a constant theme of discussions. A more detailed description will be available the first week of classes.	
ACCESS SPECIFICATIONS: All spaces are held for 4th year Honours students in Psychology, Cognitive Science and Children Studies.	

HH/PSYC 4010 6.0B (Y) – SEMINAR IN DEVELOPMENTAL PSYCHOLOGY	
INSTRUCTOR: N. Cepeda OFFICE: 242 BSB	DAY: Wednesday TIME: 2:30 – 5:30 pm
PREREQUISITES: PSYC 1010 6.0 or AK/PSYC 2410 6.0 with a minimum grade of C. PSYC 2030 3.0 or AK/PSYC 2530 3.0 or substitute; one of PSYC 2020 6.0, PSYC 2021 3.0, AK/PSYC 2510 3.0 or substitutes; and PSYC 2110 3.0 or AK/PSYC 3240 3.0. Students must be in an Honours Program in Psychology and have completed 84 credits (Excluding Education Courses). COURSE CREDIT EXCLUSION: HH/PSYC 4010 3.0, HH/PSYC 4140 3.0, GL/PSYC 4510 3.0	
DESCRIPTION: Some major modern theories of child development are compared and their corresponding data and methodologies are analyzed. A more detailed description will be available the first week of classes.	
ACCESS SPECIFICATIONS: All spaces are held for 4th year Honours students in Psychology, Cognitive Science and Children Studies.	

HH/PSYC 4010 6.0C (Y) – SEMINAR IN DEVELOPMENTAL PSYCHOLOGY	
INSTRUCTOR: S. Adler OFFICE: 333 BSB	DAY: Tuesday TIME: 2:30 – 5:30 pm
PREREQUISITES: PSYC 1010 6.0 or AK/PSYC 2410 6.0 with a minimum grade of C. PSYC 2030 3.0 or AK/PSYC 2530 3.0 or substitute; one of PSYC 2020 6.0, PSYC 2021 3.0, AK/PSYC 2510 3.0 or substitutes; and PSYC 2110 3.0 or AK/PSYC 3240 3.0. Students must be in an Honours Program in Psychology and have completed 84 credits (Excluding Education Courses).	

COURSE CREDIT EXCLUSION: HH/PSYC 4010 3.0, HH/PSYC 4140 3.0, GL/PSYC 4510 3.0

DESCRIPTION: Some major modern theories of child development are compared and their corresponding data and methodologies are analyzed. A more detailed description will become available when an instructor has been assigned.

ACCESS SPECIFICATIONS: All spaces are held for 4th year Honours students in Psychology, Cognitive Science and Children Studies.

HH/PSYC 4010 3.0M (W) – SEMINAR IN SOCIAL PSYCHOLOGY

INSTRUCTOR: M. Legerstee
OFFICE: 212 BSB

DAY: Tuesday
TIME: 11:30 – 2:30 pm

PREREQUISITES: PSYC 1010 6.0 or AK/PSYC 2410 6.0 with a minimum grade of C. PSYC 2030 3.0 or AK/PSYC 2530 3.0 or substitute; one of PSYC 2020 6.0, PSYC 2021 3.0, AK/PSYC 2510 3.0 or substitutes; and PSYC 2110 3.0 or AK/PSYC 3240 3.0. Students must be in an Honours Program in Psychology and have completed 84 credits (Excluding Education Courses).

COURSE CREDIT EXCLUSION: HH/PSYC 4010 3.0, HH/PSYC 4140 3.0, GL/PSYC 4510 3.0

DESCRIPTION: You will learn to examine psychological principles and theories, in order to determine if, how, and when they can be applied to developmental populations. You will learn to critically evaluate theories, analyze the validity of experimental methods and data analysis techniques, and assess the usefulness of principles within specific developmental contexts. Principles will come from several sub-areas of developmental psychology, including cognitive, social, clinical, biological, and educational fields.

ACCESS SPECIFICATIONS: All spaces are held for 4th year Honours students in Psychology, Cognitive Science and Children Studies.

HH/PSYC 4020 6.0A (Y) – SEMINAR IN SOCIAL PSYCHOLOGY

INSTRUCTOR: TBA
OFFICE: TBA

DAY: Tuesday
TIME: 11:30 – 2:30 pm

PREREQUISITES: PSYC 1010 6.0 or AK/PSYC 2410 6.0 with a minimum grade of C. PSYC 2030 3.0 or AK/PSYC 2530 3.0 or substitute; one of PSYC 2020 6.0, PSYC 2021 3.0, AK/PSYC 2510 3.0 or substitutes; PSYC 2120 3.0 or AK/PSYC 3210 3.0. Students must be in an Honours Program in Psychology and have completed 84 credits (Excluding Education Courses).

COURSE CREDIT EXCLUSION: PSYC 4020 3.0, AK/PSYC 4110 3.0.

DESCRIPTION: In depth consideration of contemporary issues in social psychology. The focus will vary depending on the specialty area of the instructor. A more detailed description will become available when an instructor has been assigned.

ACCESS SPECIFICATIONS: All spaces are held for 4th year Honours students in Psychology and Cognitive Science

HH/PSYC 4020 6.0B (Y) – SEMINAR IN SOCIAL PSYCHOLOGY

INSTRUCTOR: D. Wiesenthal
OFFICE: 288 BSB

DAY: Wednesday
TIME: 8:30 – 11:30 am

PREREQUISITES: HH/PSYC 1010 6.0 or HH/PSYC 2410 6.0 with a minimum grade of C; HH/PSYC 2030 3.0 or HH/PSYC 2530 3.0 or substitute; one of HH/PSYC 2020 6.0, HH/PSYC 2021 3.0, HH/PSYC 2510 3.0 or substitutes; and HH/PSYC 2120 3.0. Students must be in an Honours Program in Psychology and have completed 14 university courses or 84 credits (excluding Education courses).

COURSE CREDIT EXCLUSION: HH/PSYC 4110 3.0

DESCRIPTION: This seminar is designed to present the curious student with a survey of applied social and environmental psychological research dealing with a variety of topics of current interest. Prospective students are urged to review the course website (<http://www.psych.yorku.ca/davidw/courses/4050E/index.html>) to see the range of topics and

readings that will be discussed. (Note: there will naturally be some changes from year to year, so this material should be viewed as a general guide to what may be covered during the 2010-2011 academic year.

ACCESS SPECIFICATIONS: All spaces are held for 4th year Honours students in Psychology and Cognitive Science

HH/PSYC 4020 6.0C (Y) – SEMINAR IN SOCIAL PSYCHOLOGY

INSTRUCTOR: TBA
OFFICE: TBA

DAY: Tuesday
TIME: 2:30 – 5:30 pm

PREREQUISITES: HH/PSYC 1010 6.0 or HH/PSYC 2410 6.0 with a minimum grade of C; HH/PSYC 2030 3.0 or HH/PSYC 2530 3.0 or substitute; one of HH/PSYC 2020 6.0, HH/PSYC 2021 3.0, HH/PSYC 2510 3.0 or substitutes; and HH/PSYC 2120 3.0. Students must be in an Honours Program in Psychology and have completed 14 university courses or 84 credits (excluding Education courses).

COURSE CREDIT EXCLUSION: HH/PSYC 4110 3.0

DESCRIPTION: See description for PSYC 4020 6.0A (F).

ACCESS SPECIFICATIONS: All spaces are held for 4th year Honours students in Psychology and Cognitive Science

HH/PSYC 4020 6.0D (Y) – SEMINAR IN SOCIAL PSYCHOLOGY

INSTRUCTOR: TBA
OFFICE: TBA

DAY: Monday
TIME: 8:30 – 11:30 am

PREREQUISITES: HH/PSYC 1010 6.0 or HH/PSYC 2410 6.0 with a minimum grade of C; HH/PSYC 2030 3.0 or HH/PSYC 2530 3.0 or substitute; one of HH/PSYC 2020 6.0, HH/PSYC 2021 3.0, HH/PSYC 2510 3.0 or substitutes; and HH/PSYC 2120 3.0. Students must be in an Honours Program in Psychology and have completed 14 university courses or 84 credits (excluding Education courses).

COURSE CREDIT EXCLUSION: HH/PSYC 4110 3.0

DESCRIPTION: See the coursedescription for PSYC 4020 6.0A (F).

ACCESS SPECIFICATIONS: All spaces are held for 4th year Honours students in Psychology and Business and Society

HH/PSYC 4020 6.0E (Y) – SEMINAR IN SOCIAL PSYCHOLOGY

INSTRUCTOR: TBA
OFFICE: TBA

DAY: Thursday
TIME: 2:30 – 5:30 pm

PREREQUISITES: HH/PSYC 1010 6.0 or HH/PSYC 2410 6.0 with a minimum grade of C; HH/PSYC 2030 3.0 or HH/PSYC 2530 3.0 or substitute; one of HH/PSYC 2020 6.0, HH/PSYC 2021 3.0, HH/PSYC 2510 3.0 or substitutes; and HH/PSYC 2120 3.0. Students must be in an Honours Program in Psychology and have completed 14 university courses or 84 credits (excluding Education courses).

COURSE CREDIT EXCLUSION: HH/PSYC 4110 3.0

DESCRIPTION: See the description for PSYC 4020 6.0A (F).

ACCESS SPECIFICATIONS: All spaces are held for 4th year Honours students in Psychology and Business and Society

HH/PSYC 4020 3.0M (W) – SEMINAR IN SOCIAL PSYCHOLOGY

INSTRUCTOR: R. Schuller
OFFICE: 254 BSB

DAY: Thursday
TIME: 4:00 – 7:00 pm

PREREQUISITES: HH/PSYC 1010 6.0 or HH/PSYC 2410 6.0 with a minimum grade of C; HH/PSYC 2030 3.0 or HH/PSYC 2530 3.0 or substitute; one of HH/PSYC 2020 6.0, HH/PSYC

2021 3.0, HH/PSYC 2510 3.0 or substitutes; and HH/PSYC 2120 3.0. Students must be in an Honours Program in Psychology and have completed 14 university courses or 84 credits (excluding Education courses).

COURSE CREDIT EXCLUSION: HH/PSYC 4110 3.0

DESCRIPTION: In depth consideration of contemporary issues in social psychology. The focus will vary depending on the specialty area of the instructor. A more detailed description will become available when an instructor has been assigned.

ACCESS SPECIFICATIONS: All spaces are held for 4th year Honours students in Psychology and Cognitive Science.

HH/PSYC 4080 6.0A (Y) – NEUROPSYCHOLOGY OF ABNORMAL BEHAVIOUR

INSTRUCTOR: W. Heinrichs

DAY: Wednesday

OFFICE: 263 BSB

TIME: 8:30 – 11:30 am

PREREQUISITES: PSYC 1010 6.0 or AK/PSYC 2410 6.0 with a minimum grade of C. PSYC 2030 3.0 or AK/PSYC 2530 3.0 or substitute; one of PSYC 2020 6.0, PSYC 2021 3.0, AK/PSYC 2510 3.0 or substitutes; PSYC 2240 3.0 and PSYC 3140 3.0. Students must be in an Honours Program in Psychology and have completed 84 credits (Excluding Education Courses).

DESCRIPTION: This course provides an understanding of brain and behaviour with special reference to schizophrenia and a range of neurological and psychiatric disorders. Clinical, cognitive and neurobiological research relevant to these disorders will be considered. Representative disorders include: amnesia, aphasia, apraxia, dementia, agnosia, traumatic brain injury, post-traumatic stress disorder, bipolar disorder, autism and obsessive-compulsive disorder.

ACCESS SPECIFICATIONS: All spaces are held for 4th year Honours students in Psychology, Cognitive Science and Criminology.

HH/PSYC 4080 6.0B (Y) – NEUROPSYCHOLOGY OF ABNORMAL BEHAVIOUR

INSTRUCTOR: M. Desrocher

DAY: Thursday

OFFICE: 124 BSB

TIME: 11:30 – 2:30 pm

PREREQUISITES: PSYC 1010 6.0 or AK/PSYC 2410 6.0 with a minimum grade of C. PSYC 2030 3.0 or AK/PSYC 2530 3.0 or substitute; one of PSYC 2020 6.0, PSYC 2021 3.0, AK/PSYC 2510 3.0 or substitutes; PSYC 2240 3.0 and PSYC 3140 3.0. Students must be in an Honours Program in Psychology and have completed 84 credits (Excluding Education Courses).

DESCRIPTION: An examination of the genetic, physiological and anatomical bases of several types of abnormal behaviour. The social, public policy and ethical implications of a neuropsychological view of abnormal behaviour are discussed. A more detailed description will be available the first week of classes.

ACCESS SPECIFICATIONS: All spaces are held for 4th year Honours students in Psychology, Cognitive Science and Criminology.

HH/PSYC 4080 6.0C (Y) – NEUROPSYCHOLOGY OF ABNORMAL BEHAVIOUR

INSTRUCTOR: TBA

DAY: Monday

OFFICE: TBA

TIME: 8:30 – 11:30 am

PREREQUISITES: HH/PSYC 1010 6.0 or HH/PSYC 2410 6.0 with a minimum grade of C; HH/PSYC 2030 3.0 or HH/PSYC 2530 3.0 or substitute; one of HH/PSYC 2020 6.0, HH/PSYC 2021 3.0, HH/PSYC 2510 3.0 or substitutes; HH/PSYC 2240 3.0 and HH/PSYC 3140 3.0. Students must be in an Honours Program in Psychology and have completed 14 university courses or 84 credits (excluding Education courses).

DESCRIPTION: See description for PSYC 4080 6.0B (Y).

ACCESS SPECIFICATIONS: All spaces are held for 4th year Honours students in Psychology, Cognitive Science and Criminology.

HH/PSYC 4180 3.0A – SEMINAR IN COMPARATIVE COGNITION

NOT OFFERED FALL/WINTER 2011 – 2012

HH/PSYC 4230 3.0 – HUMAN PERFORMANCE IN SYSTEMS

NOT OFFERED FALL/WINTER 2011 – 2012

HH/PSYC 4260 3.0 – SEMINAR IN SENSATION AND PERCEPTION

NOT OFFERED FALL/WINTER 2011 – 2012

HH/PSYC 4270 3.0A (F) - SEMINAR IN MEMORY AND COGNITION

INSTRUCTOR: V. Goel

DAY: Tuesday

OFFICE: 332 BSB

TIME: 2:30 – 5:30 pm

PREREQUISITES: HH/PSYC1010 6.0 or HH/PSYC2410 6.0 with a minimum grade of C; HH/PSYC2030 3.0 or HH/PSYC2530 3.0 or substitute; HH/PSYC2020 6.0 or substitutes, one of HH/PSYC3130 3.0 or HH/PSYC3265 3.0, HH/PSYC3135 3.0 or HH/PSYC3260 3.0 (after Winter 2002). Students must be in an Honours Program in Psychology and have completed 14 university courses or 84 credits (Excluding Education Courses).

COURSE CREDIT EXCLUSION: HH/PSYC4130 3.0

DESCRIPTION: This course will survey a variety of topics in the area of human memory and its relationship with other cognitive processes, such as perception, emotion, and executive function. Current theories and data on memory will be presented, focusing on the processes and systems involved at encoding, storage, and retrieval, as well as the errors of memory and the importance of memory in our everyday lives. Evidence derived from work with clinical populations with severe memory disturbances and healthy older individuals will be reviewed. Reference will also be made to research involving the use of animal models and the growing use of brain-imaging techniques to study the neural basis of memory. Students will have the opportunity to discuss and critique current research in memory, with particular attention to the ongoing debate regarding unitary versus multiple memory systems and the neural correlates of such systems.

ACCESS SPECIFICATION: All spaces are held for 4th year Honours students with Psychology as the major.

ACADEMIC HONESTY

Philosophy is concerned with teaching students to **argue well**, as opposed to arguing to the conclusion that the professor agrees with, or one that is famous. Philosophy also insists that its students do their **own thinking**, and their **own writing!** While it is sometimes (but not usually) necessary to read or quote from other authors about a philosophical subject, such references or quotations must always be clearly acknowledged in any philosophy essay. The philosophy department is very concerned about the problem of student plagiarism. If you have any questions about how to refer to other sources you are using, you should consult your course director and/or your teaching assistant. For more information on what academic dishonesty is and what the university's policies concerning it are, consult

<http://www.yorku.ca/secretariat/policies/document.php?document=69>

The philosophy department would like to add a special caution regarding material found on the World Wide Web. Students must treat material found on the web exactly the same as they would material found in a book or article. That material **must be** clearly cited (using the web site address) if it is quoted or paraphrased, just as any other reference would be. This has been a source of many problems in the past few years, and students are asked to discuss it with their professor if they feel they are unclear about it.

The philosophy department has adopted a policy of having a mandatory in-class test or quiz for all courses below the fourth year level. This quiz may be kept by the instructor so that it may be compared with essay work handed in later. Please note that it is impossible to pass the course without taking this quiz.

DEGREE REQUIREMENTS CHECKLIST

LA&PS - COGNITIVE SCIENCE

SPECIALIZED HONOURS BA PROGRAM 120 CREDITS REQUIRED

GENERAL EDUCATION REQUIREMENTS 24 CREDITS

- One 1000-level 9 credit Foundations course, in either the Division of Humanities or the Division of Social Science;
- One 1000-level 6 credit course in the Division of Natural Science or in the Department of Biology, Chemistry, Earth and Atmospheric Science, or Physics;
- One 2000-level 9 credit Foundations course, in either the Division of Humanities or the Division of Social Science. If the 1000-level 9 credit Foundations course is taken in the Division of Humanities, then the 2000-level 9 credit Foundations course must be taken in the Division of Social Science (and vice versa).

NOTE: It is strongly recommended that students choose from the following courses to meet the 1000 level General Education requirements:

- AP/SOSC 1140 9.0 or AS/SOSC 1440 9.0
- SC/NATS 1690 6.0, SC/NATS 1675, SC/NATS 1710, SC/NATS 1730, or
- AP/HUMA 2915

Date Completed	Assigned Grade	Faculty	Course Code	Credits	Course Name

COGNITIVE SCIENCE REQUIREMENTS 54 CREDITS

I. Core Program Courses

30 credits – Students must take all of the following courses

Date Completed	Assigned Grade	Faculty	Course Code	Credits	Course Name
		AP	LING 1000	6.0	Introduction to Linguistics
		HH	PSYC 1010	6.0	Introduction to Psychology
		AP	COGS/PHIL 3750	3.0	Philosophy of Artificial Intelligence
		AP	PHIL 3260	3.0	Philosophy of Psychology
		AP	PHIL 3265	3.0	Philosophy of Mind
		HH	PSYC 3260	3.0	Cognition
		AP	COGS/PHIL 4750	6.0	Honours Thesis in Cognitive Science OR
			COGS/PHIL 4901	6.0	Honours Seminar in Cognitive Science, not both

II. Analytical

Students must take 6 credits from the following list of courses

Date Completed	Assigned Grade	Faculty	Course Code	Credits	Course Name
		SC	CSE 1020	3.0	Introduction to Computer Science I
		SC	CSE 1030	3.0	Introduction to Computer Science II
		SC	CSE 2001	3.0	Introduction to the Theory of Computation
		AP	ITEC 1000	3.0	Introduction to Information Technologies
		AP	ITEC 1010	3.0	Information and Organizations
		AP	LING 2120	3.0	Fundamentals of Phonological Analysis
		AP	LING 2140	3.0	Fundamentals of Grammatical Analysis
		AP	PHIL 2100	3.0	Introduction to Logic
		HH	PSYC 2020	6.0	Statistical Methods I and II
		HH	PSYC 2021	3.0	Statistical Methods I
		HH	PSYC 2030	3.0	Introduction to Research Methods

III. Introductory Philosophy					
Students must take 3 credits from the following list of courses					
Date Completed	Assigned Grade	Faculty	Course Code	Credits	Course Name
		AP	PHIL 2160	3.0	Minds, Brains, and Machines
		AP	PHIL 2240	3.0	Introduction to the Philosophy of Mind
IV. Mid-level Computer Science, Linguistics, Psychology					
Students must take 9 credits from two different disciplines/departments					
Date Completed	Assigned Grade	Faculty	Course Code	Credits	Course Name
		SC	CSE 2011	3.0	Fundamentals of Data Structure
		SC	CSE 3401	3.0	Functional and Logic Programming
		SC	CSE 3402	3.0	Intro to Concepts of Artificial Intelligence
		AP	ITEC 3230	3.0	Designing User Interfaces
		AP	LING 3120	3.0	Phonology
		AP	LING 3140	3.0	Syntax
		AP	LING 3210	3.0	First Language Acquisition
		AP	LING 3220	3.0	Psycholinguistics
		HH	PSYC 2110	3.0	Developmental Psychology
		HH	PSYC 2120	3.0	Social Psychology
		HH	PSYC 2220	3.0	Sensation and Perception I
		HH	PSYC 2240	3.0	Biological Basis of Behaviour
		HH	PSYC 3250	3.0	Neural Bases of Behaviour
		HH	PSYC 3265	3.0	Memory
		HH	PSYC 3280	3.0	Animal Behaviour
		HH	PSYC 3290	3.0	Psycholinguistics
V. Upper level Computer Science, Linguistics, Psychology, Philosophy					
Students must take 6 credits from two different disciplines/departments					
Date Completed	Assigned Grade	Faculty	Course Code	Credits	Course Name
		SC	CSE 4401	3.0	Artificial Intelligence
		SC	CSE 4421	3.0	Introduction to Robotics
		SC	CSE 4422	3.0	Computer Vision
		SC	CSE 4441	3.0	Human-Computer Interaction
		AP	LING 4120	3.0	Advanced Phonology
		AP	PHIL 3200	3.0	Philosophy of Language
		AP	PHIL 3635	3.0	Philosophy of Neuroscience
		AP	PHIL 4080	3.0	Seminar in the Philosophy of Mind
		AP	PHIL 4082	3.0	Seminar: Philosophy of Perception
		AP	PHIL 4083	3.0	Philosophy of Clinical Psychology
		AP	PHIL 4084	3.0	Animals & the Philosophy of Mind
		HH	PSYC 4010	3.0/6.0	Seminar in Developmental Psychology
		HH	PSYC 4020	3.0/6.0	Seminar in Social Psychology
		HH	PSYC 4080	6.0	Neuropsychology of Abnormal Behavior
		HH	PSYC 4180	3.0	Seminar in Comparative Cognition
		HH	PSYC 4230	3.0	Human Performance in Systems
		HH	PSYC 4260	3.0	Seminar in Sensation and Perception
		HH	PSYC 4270	3.0	Seminar in Memory and Cognition

STUDENTS MUST COMPLETE:

RESIDENCE REQUIREMENT: At least 30 credits must be taken at York and at least half of the credits in the major must be In-Faculty

UPPER LEVEL REQUIREMENT: Students must meet the upper-level requirement which is **36 credits** at the 3000 level or 4000 level. A minimum of **18 credits** must be at the 4000 level. Students should consult the most recent Undergraduate Calendar for their chosen program and major for specific requirements.

FOUNDATION LIMIT: Faculty of Liberal Arts & Professional Studies students may complete a maximum of three 9 credit Foundation courses for degree credit.

COURSE PREREQUISITES: Please see the Cognitive Science Course Requirements chart for all course prerequisites, cross-listed courses and course credit exclusions and substitutions.